Gesswein®

The Right Tools

Providing precision tools, equipment and supplies for the Metal Working Industries – Jewelry Making, Mold & Die Polishing, Deburring, Micro-Welding, Inspecting, Polishing, Cleaning and more.

1914 – 2014 100 Gesswein®

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

How we came to be here, 100 years after incorporating, is truly an American success story. The founder of our company, Paul H. Gesswein, came to America with his parents when he was in his early teens. His arrival in this country typified the struggle that many immigrants faced in becoming self-sufficient. As a teenager, Paul took a job working in a hardware store and soon found that he had many requests from nearby craftsmen for high quality small size precision tools. Recognizing a unique opportunity, in 1914 he decided to start his own business. He began by importing European tools and initially concentrated on local customers, who visited the store to make purchases. The original focus of the business was to supply tools and equipment to the thriving jewelry and silversmith industries in New York and Boston. After more people heard about his precision tools, requests from other parts of the country came in.

That's when Paul decided to produce a book of tools and supplies that he could mail to those who couldn't visit the store—and our first catalog was born. By the 1930s, the Paul H. Gesswein Company, Inc. occupied one room in a building on Maiden Lane in lower Manhattan. Paul made the sales calls while one employee manned the phones.

Some of the larger factories had a tool room and needed many other specialized products. Our 1943 Tool and Die Makers catalog illustrated mounted stones, India stones, files, saws, burs, brushes, etc. Items sold then were predecessors to the ones we offer in this very catalog.

The Paul H. Gesswein Company, Inc. began to grow, expanding as quickly as space became available in the Maiden Lane building. By 1950, the Paul H. Gesswein Company carried over 1,000 items.

In our General Catalog of 1952 we first see our Moldmakers Finishing Stones (Silicon Carbide), which were used by the fledgling Bakelite moldmaking industry. During the 1950's plastic injection molding came about and grew very quickly. It became apparent that different types of finishing stones were needed – harder, softer, Aluminum Oxide, etc. In the next decade EDM required new solutions, which we were able to provide. Today Ceramic and our traditional stones are used with mechanical and Ultrasonic finishers. These measurably increase productivity and overall mold finish quality.

In 1963, the company finally outgrew its available space. We moved uptown a couple of miles to lower Park Avenue, beginning with 5,000 square feet of space. As the decade progressed, so did we. Within three years, another generation of Gesswein family members had entered the business. We were still on Park Avenue, but we were renting another floor and part of a third to store equipment. Even with the extra space, we had at least two employees sharing the same desk, alternating their workdays in the office. Another move was clearly in the offing. Ultimately, we decided on Connecticut, designing and constructing our own home office here, later acquiring first one adjacent building and then another.

Paul H. Gesswein & Company Inc., Home Office, Bridgeport, Connecticut, USA

Until roughly 50 years ago, we focused primarily on domestic sales. Paul's son, Roger H. Gesswein then visited Europe to call on suppliers and recognized a vast untapped market. He soon established numerous relationships which continue to this day with European customers who realized, like their American counterparts, the advantages of using our unique, high-quality products beginning a new era of international sales.

The Paul H. Gesswein Company, Inc. has come a long way from that one-room walk-in store on Maiden Lane. Today, we offer over 16,000 items to a large community of jewelry manufacturers and mold and die polishers around the globe. Even with this growth, however, we are still loyal to the vision Paul had a century ago. We are constantly adding new and innovative products to help the metal (precious as well as tool steel) and wood working industries, and these can instantly be seen on our interactive website 24/7.

As simply set forth in our guiding policy: "Our customers are the most important part of our business. Without them we would not be here. We are dedicated to giving them the ultimate in service and to making them think the best thing they ever did was to buy from Gesswein. Gesswein means quality and value. Our products include those of highest quality and precision as well as those of high value at lower costs. Service means giving the customers more than they expect, responding to their needs immediately and shipping orders the same day."

In closing, it seems appropriate to us that we present this catalog with a passage from our very first: **"It is with justifiable pride that we contemplate its completion, and in presenting it to you we do so with the firm conviction that it will bring us into closer relations of mutual advantage".**

Paul H. Gesswein & Company Inc., is a Proud Member of:

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Gesswein® Finishing Stones For Mold & Die Polishing

For over 100 years, leading metalworkers have come to know and rely upon Gesswein for the best in abrasives.

We are proud Gesswein stones are the unquestionable choice of leading mold and die craftsmen worldwide. Their trust and confidence in us is due to:

- **Demanding Standards:** For each stone, careful grading eliminates oversized grains and special blending operations ensure absolute uniformity of finish, whatever your application.
- **Exceptional Quality Control:** Working closely with the best suppliers in the industry as well as making blocks and stones at our facility to ensure the highest standards are consistently met.
- **Quality Ingredients:** Our stones are composed of the purest ingredients.

  Aluminum Oxide: An extremely tough abrasive; each grain holds its sharpness very well.

  Levigated Alumina: A very fine form of aluminum oxide (stones made of this formulation are softer).

  Silicon Carbide: Extremely sharp and brittle (these man-made particles are designed to shatter and expose new, sharp edges).

As an industry pioneer, we have long known an important key to continued success—provide a complete range of products that allows polishers to choose the perfect stone for each task. We continue to develop new products to meet the changing needs of our customers.

Made in the USA

Add a STONE CHART to your order and receive it at no charge ($10.00 value).

Use the chart below to determine which finishing stone is right for you based upon the type of surface or call 800-544-2043 and speak with our technical staff to choose the best stone for your application. Blue diamond indicates the most commonly used for each application.

Surface Type	Diemaker	EDM	EDM Blue	Oil Treated	Premium White	RA	GP	Mold-maker	Mold-maker Plus	Super Fine	Ultra Soft	Rough Out	Ceramic Diamond Stones	Ceramic	Ruby
All Tool Steels	●	●	●	●	●	●	●	●	●			●	●	●	●
Heat Treated Tool Steel	●					◆							●	●	◆
EDM Surface		◆	●	●		●	●						●	●	
Machined Surface	●			◆	●		●						●	●	
Stainless Steel	●			●				◆	●				●	●	
Aluminum								●	●	●	◆	●	●	●	
Non-Ferrous								●	●	●	◆	●	●	●	
High Polishing										◆	●				
Rough Grinding												◆			
Carbide													●		◆

◆ Blue diamond indicates the most commonly used for each application.

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Which Gesswein Stone is Right for Your Job?

Made in the USA

The chart below contains helpful information to guide you in selecting the appropriate finishing stone based on your application.
Stones are listed from hardest to softest.

Type	Abrasive Material	Characteristics & Usage	Page(s)
RA	Aluminum oxide	Special breakdown-resistant resin bond. Can be used aggressively and be ground to a sharp edge or for use on hard-to-reach areas such as slots and ribs.	12
EDM Blue	Premium aluminum oxide	New harder formulation of our EDM stones especially designed to handle the high-speed back-and-forth motion of a profiler or ultrasonic machine. Superior for removing the hardest EDM scale. Designed for use on hard surfaces at high speed. Holds shape very well.	8
EDM	Premium aluminum oxide	Our best stones for fast removal of EDM scale. They have sharp points and edges to cut and dig into material to better remove it. Use EDM for more aggressive polishing.	6-7
GP	White aluminum oxide	This soft stone acts harder due to a proprietary treatment. Experienced polishers will find this formula cuts fast, wears slowly and holds its shape well.	13
Premium White	Premium aluminum oxide	Semi-hard, good for general-purpose mold polishing. Special treatment provides load resistance and a lubricating effect.	14
Oil-Treated	White aluminum oxide	Soaked in oil solution to prevent loading. Fast-cutting with moderate breakdown. Popular general purpose stones often used for EDM scale removal. Can be used without stoning oil.	9
Diemaker	Aluminum oxide	Extremely popular. For general-purpose stoning on all types of steel. Fast-cutting, wears at an average rate and gives a good surface finish.	4-5
Moldmaker Plus	Premium silicon carbide	Green silicon carbide. Medium stone with slower breakdown characteristics than our standard Moldmaker stones.	11
Moldmaker	Silicon carbide	Easy to shape stone for contour polishing. Medium-soft, nonloading and fast-cutting with rapid breakdown.	10
Rough Out	Aluminum oxide	Coarse, fast-cutting with rapid breakdown. For deep machining marks. Also good for rust removal.	15
Super Fine	Levigated alumina	Our softest and finest stones for steel surfaces. They don't scratch and are nonloading. For final finish before using diamond compound.	16
Ultra-Soft	White aluminum oxide	Formulated for polishing aluminum, stainless steel, beryllium, kirksite and other soft metals. Very soft, fast-cutting and nonloading with very rapid breakdown.	16

IMPORTANT: Abrasive stones break down during mold and die polishing, grinding, tool sharpening, and dressing of cutting & grinding wheels. The resulting dust is classified by OSHA as inert or nuisance dust. Please consult the Material Safety Data Sheet for each stone; data provided therein pertains primarily to the dust produced during and after use. Please note that hazards may change when abrasive stones are used in conjunction with solvents, cutting fluids or other chemicals. For more complete information, consult the Material Safety Data Sheets of chemical products used with abrasive stone products.

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Gesswein® Diemaker Stones

- Medium-hard aluminum oxide stones combine the characteristics of fast cutting and moderate breakdown.
- Ideal for general purpose stoning on hard and soft tool steels such as H-13, P-21, SS420 and pre-finishing.
- One of our most popular finishing stones.
- **Sold in full box quantities of 6 or 12 each as indicated.**

See Our Sampler Sets on pages 19-21

IMPORTANT: See dust warning on page 3.

5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
01	100	**415-0001**	**$1.61**	**$1.45**	**$1.29**
1	150	**415-0010**	**1.61**	**1.45**	**1.29**
2	220	**415-0020**	**1.61**	**1.45**	**1.29**
3	320	**415-0030**	**1.61**	**1.45**	**1.29**
4	400	**415-0040**	**1.61**	**1.45**	**1.29**
6	600	**415-0060**	**1.82**	**1.64**	**1.46**
8	800	**415-0080**	**1.82**	**1.64**	**1.46**
9	900	**415-0090**	**1.82**	**1.64**	**1.46**
1200	1200	**415-4080**	**2.00**	**1.80**	**1.61**

1/4" x 1/16" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
2210	220	**405-2210**	**$1.58**	**$1.42**	**$1.27**
2310	320	**405-2310**	**1.77**	**1.59**	**1.42**
2410	400	**405-2410**	**1.77**	**1.59**	**1.42**
2610	600	**405-2610**	**2.05**	**1.85**	**1.65**
2910	900	**405-2910**	**2.12**	**1.91**	**1.70**
4010	1200	**405-4010**	**2.33**	**2.10**	**1.87**

1/4" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1801	100	**405-1801**	**$2.31**	**$2.08**	**$1.86**
2101	150	**405-2101**	**2.31**	**2.08**	**1.86**
2201	220	**405-2201**	**2.31**	**2.08**	**1.86**
2301	320	**405-2301**	**2.58**	**2.32**	**2.07**
2401	400	**405-2401**	**2.58**	**2.32**	**2.07**
2601	600	**405-2601**	**2.92**	**2.63**	**2.35**
2801	800	**405-2801**	**2.92**	**2.63**	**2.35**
2901	900	**405-2901**	**3.05**	**2.75**	**2.45**
4001	1200	**405-4001**	**3.35**	**3.02**	**2.69**

1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1802	100	**405-1802**	**$2.40**	**$2.16**	**$1.93**
2102	150	**405-2102**	**2.40**	**2.16**	**1.93**
2202	220	**405-2202**	**2.40**	**2.16**	**1.93**
2302	320	**405-2302**	**2.67**	**2.40**	**2.15**
2402	400	**405-2402**	**2.67**	**2.40**	**2.15**
2602	600	**405-2602**	**3.05**	**2.75**	**2.45**
2802	800	**405-2802**	**3.05**	**2.75**	**2.45**
2902	900	**405-2902**	**3.65**	**3.29**	**2.93**
4002	1200	**405-4002**	**4.00**	**3.60**	**3.21**

12pc Twelve-piece minimum; please order in multiples of twelve.

3/8" x 3/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1808	100	**405-1808**	**$3.47**	**$3.12**	**$2.79**
2108	150	**405-2108**	**3.47**	**3.12**	**2.79**
2208	220	**405-2208**	**3.47**	**3.12**	**2.79**
2308	320	**405-2308**	**3.83**	**3.45**	**3.08**
2408	400	**405-2408**	**3.83**	**3.45**	**3.08**
2608	600	**405-2608**	**5.19**	**4.67**	**4.17**
2808	800	**405-2808**	**5.19**	**4.67**	**4.17**
2908	900	**405-2908**	**6.57**	**5.91**	**5.28**
4008	1200	**405-4008**	**7.22**	**6.50**	**5.80**

1/2" x 1/16" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1800	100	**405-1800**	**$2.61**	**$2.35**	**$2.10**
2100	150	**405-2100**	**2.61**	**2.35**	**2.10**
2200	220	**405-2200**	**2.61**	**2.35**	**2.10**
2300	320	**405-2300**	**2.91**	**2.62**	**2.34**
2400	400	**405-2400**	**2.91**	**2.62**	**2.34**
2600	600	**405-2600**	**3.33**	**3.00**	**2.68**
2900	900	**405-2900**	**3.72**	**3.35**	**2.99**
4000	1200	**405-4000**	**4.08**	**3.67**	**3.28**

1/2" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1803	100	**405-1803**	**$2.74**	**$2.47**	**$2.20**
2103	150	**405-2103**	**2.74**	**2.47**	**2.20**
2203	220	**405-2203**	**2.74**	**2.47**	**2.20**
2303	320	**405-2303**	**2.97**	**2.67**	**2.39**
2403	400	**405-2403**	**2.97**	**2.67**	**2.39**
2603	600	**405-2603**	**3.49**	**3.14**	**2.80**
2803	800	**405-2803**	**3.49**	**3.14**	**2.80**
2903	900	**405-2903**	**3.91**	**3.52**	**3.14**
4003	1200	**405-4003**	**4.30**	**3.87**	**3.46**

1/2" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1804	100	**405-1804**	**$3.16**	**$2.84**	**$2.54**
2104	150	**405-2104**	**$3.16**	**$2.84**	**$2.54**
2204	220	**405-2204**	**3.16**	**2.84**	**2.54**
2304	320	**405-2304**	**3.66**	**3.29**	**2.94**
2404	400	**405-2404**	**3.66**	**3.29**	**2.94**
2604	600	**405-2604**	**4.61**	**4.15**	**3.70**
2804	800	**405-2804**	**4.61**	**4.15**	**3.70**
2904	900	**405-2904**	**5.47**	**4.92**	**4.40**
4004	1200	**405-4004**	**6.02**	**5.42**	**4.84**

½" x ½" x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
1805	100	**405-1805**	**$4.20**	**$3.78**	**$3.37**
2105	150	**405-2105**	**4.20**	**3.78**	**3.37**
2205	220	**405-2205**	**4.20**	**3.78**	**3.37**
2305	320	**405-2305**	**6.08**	**5.47**	**4.89**
2405	400	**405-2405**	**6.08**	**5.47**	**4.89**
2605	600	**405-2605**	**7.89**	**7.10**	**6.34**
2805	800	**405-2805**	**7.89**	**7.10**	**6.34**
2905	900	**405-2905**	**8.21**	**7.39**	**6.60**
4005	1200	**405-4005**	**9.08**	**8.17**	**7.30**

1" x ⅛" x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
1811	100	**405-1811**	**$4.50**	**$4.05**	**$3.62**
2111	150	**405-2111**	**4.50**	**4.05**	**3.62**
2211	220	**405-2211**	**4.50**	**4.05**	**3.62**
2311	320	**405-2311**	**5.07**	**4.56**	**4.07**
2411	400	**405-2411**	**5.07**	**4.56**	**4.07**
2611	600	**405-2611**	**6.79**	**6.11**	**5.46**

1" x ¼" x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
1812	100	**405-1812**	**$4.72**	**$4.25**	**$3.79**
2112	150	**405-2112**	**4.72**	**4.25**	**3.79**
2212	220	**405-2212**	**4.72**	**4.25**	**3.79**
2312	320	**405-2312**	**6.04**	**5.44**	**4.85**
2412	400	**405-2412**	**6.04**	**5.44**	**4.85**
2612	600	**405-2612**	**8.07**	**7.26**	**6.48**

1" x ½"x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
1807	100	**405-1807**	**$5.82**	**$5.24**	**$4.68**
2107	150	**405-2107**	**5.82**	**5.24**	**4.68**
2207	220	**405-2207**	**5.82**	**5.24**	**4.68**
2307	320	**405-2307**	**9.17**	**8.25**	**7.37**
2407	400	**405-2407**	**9.17**	**8.25**	**7.37**
2607	600	**405-2607**	**12.07**	**10.86**	**9.70**
2907	900	**405-2907**	**14.00**	**12.60**	**11.25**

1" x 1" x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
1806	100	**405-1806**	**$9.98**	**$8.98**	**$8.02**
2106	150	**405-2106**	**9.98**	**8.98**	**8.02**
2206	220	**405-2206**	**9.98**	**8.98**	**8.02**
2306	320	**405-2306**	**13.65**	**12.29**	**10.97**
2406	400	**405-2406**	**13.65**	**12.29**	**10.97**
2606	600	**405-2606**	**20.20**	**18.18**	**16.23**

Round, ¼" x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
3102	150	**405-3102**	**$4.60**	**$4.14**	**$3.70**
3202	220	**405-3202**	**4.60**	**4.14**	**3.70**
3302	320	**405-3302**	**5.00**	**4.50**	**4.02**
3402	400	**405-3402**	**5.00**	**4.50**	**4.02**
3602	600	**405-3602**	**5.21**	**4.69**	**4.19**
3902	900	**405-3902**	**6.42**	**5.78**	**5.16**

Round, ⅜" x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
3108	150	**405-3108**	**$5.66**	**$5.09**	**$4.55**
3208	220	**405-3208**	**5.66**	**5.09**	**4.55**
3308	320	**405-3308**	**7.56**	**6.80**	**6.07**
3408	400	**405-3408**	**7.56**	**6.80**	**6.07**
3608	600	**405-3608**	**8.94**	**8.05**	**7.18**

Round, ½" x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
3105	150	**405-3105**	**$6.47**	**$5.82**	**$5.20**
3205	220	**405-3205**	**6.47**	**5.82**	**5.20**
3305	320	**405-3305**	**6.47**	**5.82**	**5.20**
3405	400	**405-3405**	**8.55**	**7.70**	**6.87**
3605	600	**405-3605**	**9.17**	**8.25**	**7.37**

Triangular, ¼" x 6"

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
21T2	150	**405-2192**	**$2.69**	**$2.42**	**$2.16**
22T2	220	**405-2292**	**2.69**	**2.42**	**2.16**
23T2	320	**405-2392**	**3.11**	**2.80**	**2.50**
24T2	400	**405-2492**	**3.11**	**2.80**	**2.50**

Triangular, ⅜" x 6"

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
21T8	150	**405-2198**	**$3.81**	**$3.43**	**$3.06**
22T8	220	**405-2298**	**3.81**	**3.43**	**3.06**
23T8	320	**405-2398**	**4.01**	**3.61**	**3.22**
24T8	400	**405-2498**	**4.01**	**3.61**	**3.22**

Hybrid, ¼" x ¼" x 6"

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
1823H	100	**405-1823**	**$3.12**	**$2.81**	**$2.51**
2123H	150	**405-2123**	**3.12**	**2.81**	**2.51**
2223H	220	**405-2223**	**3.12**	**2.81**	**2.51**
2323H	320	**405-2323**	**3.47**	**3.12**	**2.79**
2423H	400	**405-2423**	**3.47**	**3.12**	**2.79**
2623H	600	**405-2623**	**3.97**	**3.57**	**3.19**
2823H	800	**405-2823**	**3.97**	**3.57**	**3.19**
2923H	900	**405-2923**	**4.75**	**4.28**	**3.82**
4023H	1200	**405-4023**	**5.23**	**4.71**	**4.20**

6pc *Six-piece minimum; please order in multiples of six.* 12pc *Twelve-piece minimum; please order in multiples of twelve.*

All prices subject to change without notice.

Gesswein® EDM Stones

- Remove the tough, hard scale left by the EDM process much faster than any of our other finishing stones.
- Contains extra-sharp premium-grade aluminum oxide for fast cutting action.
- Special clay bond enables the EDM stones to hold their shape well for working small details and sharp corners.
- Breaks down slowly, cuts fast and resists loading.
- **Sold in full box quantities of 6 or 12 each as indicated.**

IMPORTANT: See dust warning on page 3.

See Our Sampler Sets on pages 19-21

5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
61	120	**415-0610**	**$1.69**	**$1.52**	**$1.36**
62	180	**415-0620**	**1.69**	**1.52**	**1.36**
622	220	**415-0622**	**1.69**	**1.52**	**1.36**
63	320	**415-0630**	**1.69**	**1.52**	**1.36**
64	400	**415-0640**	**1.69**	**1.52**	**1.36**
66	600	**415-0660**	**1.91**	**1.72**	**1.53**

1/4" x 1/16" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6110	180	**425-6110**	**$1.25**	**$1.13**	**$1.00**
6210	220	**425-6210**	**1.32**	**1.19**	**1.06**
6310	320	**425-6310**	**1.47**	**1.32**	**1.18**
6410	400	**425-6410**	**1.47**	**1.32**	**1.18**
6610	600	**425-6610**	**1.68**	**1.51**	**1.35**

1/4" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6121	120	**425-6121**	**$2.42**	**$2.18**	**$1.94**
6181	180	**425-6181**	**2.42**	**2.18**	**1.94**
6201	220	**425-6201**	**2.42**	**2.18**	**1.94**
6301	320	**425-6301**	**2.58**	**2.32**	**2.07**
6401	400	**425-6401**	**2.58**	**2.32**	**2.07**
6601	600	**425-6601**	**2.99**	**2.69**	**2.40**

1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6122	120	**425-6122**	**$2.55**	**$2.30**	**$2.05**
6182	180	**425-6182**	**2.55**	**2.30**	**2.05**
6202	220	**425-6202**	**2.55**	**2.30**	**2.05**
6302	320	**425-6302**	**2.72**	**2.45**	**2.19**
6402	400	**425-6402**	**2.72**	**2.45**	**2.19**
6602	600	**425-6602**	**3.28**	**2.95**	**2.64**

3/8" x 3/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6128	120	**425-6128**	**$3.47**	**$3.12**	**$2.79**
6188	180	**425-6188**	**3.47**	**3.12**	**2.79**
6208	220	**425-6208**	**3.47**	**3.12**	**2.79**
6308	320	**425-6308**	**3.82**	**3.44**	**3.07**

1/2" x 1/16" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6120	120	**425-6120**	**$2.62**	**$2.36**	**$2.11**
6180	180	**425-6180**	**2.62**	**2.36**	**2.11**
6200	220	**425-6200**	**2.62**	**2.36**	**2.11**
6300	320	**425-6300**	**2.92**	**2.63**	**2.35**
6400	400	**425-6400**	**2.92**	**2.63**	**2.35**
6600	600	**425-6600**	**3.33**	**3.00**	**2.68**

1/2" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6123	120	**425-6123**	**$2.74**	**$2.47**	**$2.20**
6183	180	**425-6183**	**2.74**	**2.47**	**2.20**
6203	220	**425-6203**	**2.74**	**2.47**	**2.20**
6303	320	**425-6303**	**2.92**	**2.63**	**2.35**
6403	400	**425-6403**	**2.92**	**2.63**	**2.35**
6603	600	**425-6603**	**4.03**	**3.63**	**3.24**

1/2" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6124	120	**425-6124**	**$3.32**	**$2.99**	**$2.67**
6184	180	**425-6184**	**3.32**	**2.99**	**2.67**
6204	220	**425-6204**	**3.32**	**2.99**	**2.67**
6304	320	**425-6304**	**3.68**	**3.31**	**2.96**
6404	400	**425-6404**	**3.68**	**3.31**	**2.96**
6604	600	**425-6604**	**5.32**	**4.79**	**4.27**

12pc *Twelve-piece minimum; please order in multiples of twelve.*

½" x ½" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
6125	120	**425-6125**	**$4.20**	**$3.78**	**$3.37**
6185	180	**425-6185**	**4.20**	**3.78**	**3.37**
6205	220	**425-6205**	**4.20**	**3.78**	**3.37**
6305	320	**425-6305**	**6.08**	**5.47**	**4.89**
6405	400	**425-6405**	**6.08**	**5.47**	**4.89**
6605	600	**425-6605**	**7.89**	**7.10**	**6.34**

1" x ½" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
6127	120	**425-6127**	**$5.82**	**$5.24**	**$4.68**
6187	180	**425-6187**	**5.82**	**5.24**	**4.68**
6207	220	**425-6207**	**5.82**	**5.24**	**4.68**
6307	320	**425-6307**	**9.17**	**8.25**	**7.37**

1" x 1" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
6126	120	**425-6126**	**$10.05**	**$9.05**	**$8.08**
6186	180	**425-6186**	**10.05**	**9.05**	**8.08**
6206	220	**425-6206**	**10.05**	**9.05**	**8.08**
6306	320	**425-6306**	**13.80**	**12.42**	**11.09**

Hybrid, ¼" x ¼" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
123H	120	**425-0123**	**$3.32**	**$2.99**	**$2.67**
183H	180	**425-0183**	**3.32**	**2.99**	**2.67**
223H	220	**425-0223**	**3.32**	**2.99**	**2.67**
323H	320	**425-0323**	**3.53**	**3.18**	**3.18**
423H	400	**425-0423**	**3.53**	**3.18**	**2.84**
623H	600	**425-0623**	**4.27**	**3.84**	**3.43**

Round, ¼" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
E122	120	**425-0122**	**$4.73**	**$4.26**	**$3.80**
E182	180	**425-0182**	**4.73**	**4.26**	**3.80**
E222	220	**425-0222**	**4.73**	**4.26**	**3.80**
E302	320	**425-0302**	**5.08**	**4.57**	**4.08**
E402	400	**425-0402**	**5.08**	**4.57**	**4.08**
E602	600	**425-0602**	**5.79**	**5.21**	**4.65**

Triangular, ¼" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
61T2	120	**425-6192**	**$3.07**	**$2.76**	**$2.47**
62T2	180	**425-6292**	**3.07**	**2.76**	**2.47**
63T2	320	**425-6392**	**3.27**	**2.94**	**2.63**

Triangular, ⅜" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
61T8	120	**425-6198**	**$4.10**	**$3.69**	**$3.29**
62T8	180	**425-6298**	**4.10**	**3.69**	**3.29**
63T8	320	**425-6398**	**4.59**	**4.13**	**3.69**

6pc *Six-piece minimum; please order in multiples of six.*

12pc *Twelve-piece minimum; please order in multiples of twelve.*

All prices subject to change without notice.

Gesswein® EDM Blue Stones

- Harder than our regular EDM Stones and designed to remove the tough, hard scale left by the EDM process.
- Breaks down slowly and cuts fast.
- Maintains shape, saving you time.
- Contains extra-sharp premium-grade aluminum oxide for fast cutting action plus a small amount of cobalt blue for added hardness.
- Resists breakage and specifically designed for use in reciprocating profilers.
- **Sold in full box quantities of 6 or 12 each as indicated.**

IMPORTANT: See dust warning on page 3.

See Our Sampler Sets on pages 19-21

5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
61B	120	**415-6010**	**$1.69**	**$1.52**	**$1.36**
62B	180	**415-6020**	**1.69**	**1.52**	**1.36**
622B	220	**415-6022**	**1.69**	**1.52**	**1.36**
63B	320	**415-6030**	**1.69**	**1.52**	**1.36**
64B	400	**415-6040**	**1.69**	**1.52**	**1.36**
66B	600	**415-6060**	**1.91**	**1.72**	**1.53**

1/4" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6121B	120	**424-6121**	**$2.42**	**$2.18**	**$1.94**
6181B	180	**424-6181**	**2.42**	**2.18**	**1.94**
6201B	220	**424-6201**	**2.42**	**2.18**	**1.94**
6301B	320	**424-6301**	**2.58**	**2.32**	**2.07**
6401B	400	**424-6401**	**2.58**	**2.32**	**2.07**
6601B	600	**424-6601**	**2.99**	**2.69**	**2.40**

1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6122B	120	**424-6122**	**$2.55**	**$2.30**	**$2.05**
6182B	180	**424-6182**	**2.55**	**2.30**	**2.05**
6202B	220	**424-6202**	**2.55**	**2.30**	**2.05**
6302B	320	**424-6302**	**2.72**	**2.45**	**2.19**
6402B	400	**424-6402**	**2.72**	**2.45**	**2.19**
6602B	600	**424-6602**	**3.28**	**2.95**	**2.64**

1/2" x 1/16" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6120B	120	**424-6120**	**$2.62**	**$2.36**	**$2.11**
6180B	180	**424-6180**	**2.62**	**2.36**	**2.11**
6200B	220	**424-6200**	**2.62**	**2.36**	**2.11**
6300B	320	**424-6300**	**2.92**	**2.63**	**2.35**
6400B	400	**424-6400**	**2.92**	**2.63**	**2.35**
6600B	600	**424-6600**	**3.33**	**3.00**	**2.68**

1/2" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6123B	120	**424-6123**	**$2.74**	**$2.47**	**$2.20**
6183B	180	**424-6183**	**2.74**	**2.47**	**2.20**
6203B	220	**424-6203**	**2.74**	**2.47**	**2.20**
6303B	320	**424-6303**	**2.92**	**2.63**	**2.35**
6403B	400	**424-6403**	**2.92**	**2.63**	**2.35**
6603B	600	**424-6603**	**4.03**	**3.63**	**3.24**

1/2" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6124B	120	**424-6124**	**$3.32**	**$2.99**	**$2.67**
6184B	180	**424-6184**	**3.32**	**2.99**	**2.67**
6204B	220	**424-6204**	**3.32**	**2.99**	**2.67**
6304B	320	**424-6304**	**3.68**	**3.31**	**2.96**
6404B	400	**424-6404**	**3.68**	**3.31**	**2.96**
6604B	600	**424-6604**	**5.32**	**4.79**	**4.27**

Round, 1/4" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
E122B	120	**424-0122**	**$4.73**	**$4.26**	**$3.80**
E182B	180	**424-0182**	**4.73**	**4.26**	**3.80**
E302B	320	**424-0302**	**5.08**	**4.57**	**4.08**

6pc Six-piece minimum; please order in multiples of six. *12pc Twelve-piece minimum; please order in multiples of twelve.*

Gesswein® Oil-Treated Stones

- Excellent for machined surfaces.
- Fine cutting ability.
- Medium-hard stone with white aluminum oxide soaked with oil. Can be used without additional lubrication.
- Holds shape well for finishing mold details.
- Moderate breakdown.
- Often used for EDM removal. Special oil treatment prevents loading.
- **Sold in full box quantities of 6 or 12 each as indicated.**

See Our Sampler Sets on pages 19-21

IMPORTANT: See dust warning on page 3.

5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
51	120	**415-0510**	**$1.69**	**$1.52**	**$1.36**
50	180	**415-0518**	**1.69**	**1.52**	**1.36**
52	220	**415-0520**	**1.69**	**1.52**	**1.36**
53	320	**415-0530**	**1.69**	**1.52**	**1.36**
54	400	**415-0540**	**1.69**	**1.52**	**1.36**
56	600	**415-0560**	**1.91**	**1.72**	**1.53**
58	800	**415-0580**	**1.91**	**1.72**	**1.53**
59	1200	**415-0590**	**2.17**	**1.95**	**1.74**

1/4" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5101	120	**435-5101**	**$2.62**	**$2.36**	**$2.11**
5001	180	**435-5001**	**2.62**	**2.36**	**2.11**
5201	220	**435-5201**	**2.62**	**2.36**	**2.11**
5301	320	**435-5301**	**2.72**	**2.45**	**2.19**
5401	400	**435-5401**	**2.72**	**2.45**	**2.19**
5601	600	**435-5601**	**3.14**	**2.83**	**2.52**
5801	800	**435-5801**	**3.30**	**2.97**	**2.65**
5901	1200	**435-5901**	**3.62**	**3.26**	**2.91**

1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5102	120	**435-5102**	**$2.74**	**$2.47**	**$2.20**
5002	180	**435-5002**	**2.74**	**2.47**	**2.20**
5202	220	**435-5202**	**2.74**	**2.47**	**2.20**
5302	320	**435-5302**	**2.86**	**2.57**	**2.30**
5402	400	**435-5402**	**2.86**	**2.57**	**2.30**
5602	600	**435-5602**	**3.57**	**3.21**	**2.87**
5802	800	**435-5802**	**3.75**	**3.38**	**3.01**
5902	1200	**435-5902**	**4.10**	**3.69**	**3.29**

1/2" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5103	120	**435-5103**	**$2.86**	**$2.57**	**$2.30**
5003	180	**435-5003**	**2.86**	**2.57**	**2.30**
5203	220	**435-5203**	**2.86**	**2.57**	**2.30**
5303	320	**435-5303**	**3.04**	**2.74**	**2.44**
5403	400	**435-5403**	**3.04**	**2.74**	**2.44**
5603	600	**435-5603**	**3.77**	**3.39**	**3.03**
5803	800	**435-5803**	**3.97**	**3.57**	**3.19**
5903	1200	**435-5903**	**3.97**	**3.57**	**3.19**

1/2" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5104	120	**435-5104**	**$3.60**	**$3.24**	**$2.89**
5004	180	**435-5004**	**3.60**	**3.24**	**2.89**
5204	220	**435-5204**	**3.60**	**3.24**	**2.89**
5304	320	**435-5304**	**4.19**	**3.77**	**3.37**
5404	400	**435-5404**	**4.19**	**3.77**	**3.37**
5604	600	**435-5604**	**5.25**	**4.73**	**4.22**
5804	800	**435-5804**	**5.52**	**4.97**	**4.44**
5904	1200	**435-5904**	**5.52**	**4.97**	**4.44**

Hybrid, 1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5123H	120	**435-5123**	**$3.57**	**$3.21**	**$2.87**
5023H	180	**435-5023**	**3.57**	**3.21**	**2.87**
5223H	220	**435-5223**	**3.57**	**3.21**	**2.87**
5323H	320	**435-5323**	**3.72**	**3.35**	**2.99**
5423H	400	**435-5423**	**3.72**	**3.35**	**2.99**
5623H	600	**435-5623**	**4.63**	**4.17**	**3.72**
5823H	800	**435-5823**	**4.87**	**4.38**	**3.91**
5923H	1200	**435-5923**	**5.33**	**4.80**	**4.28**

Round, 1/4" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
E122B	120	**435-0122**	**$5.08**	**$4.57**	**$4.08**
E182B	180	**435-0182**	**5.08**	**4.57**	**4.08**
E222B	220	**435-0222**	**5.08**	**4.57**	**4.08**
E302B	320	**435-0302**	**5.28**	**4.75**	**4.24**
E402B	400	**435-0402**	**5.28**	**4.75**	**4.24**
E602B	600	**435-0602**	**6.60**	**5.94**	**5.30**
E802B	800	**435-0802**	**6.93**	**6.24**	**5.57**
E902B	1200	**435-0902**	**6.93**	**6.24**	**5.57**

6pc *Six-piece minimum; please order in multiples of six.*

12pc *Twelve-piece minimum; please order in multiples of twelve.*

All prices subject to change without notice.

Gesswein® Moldmaker Stones

- Medium-soft stone with silicon carbide abrasive designed to break down rapidly and expose fresh edges.
- Suitable for working on all types of steels as well as roughing out nonferrous metals.
- Ideal for blending, detailing radii and following contours.
- Resists loading.
- **Sold in full box quantities of 6 or 12 each as indicated.**

See Our Sampler Sets on pages 19-21

IMPORTANT: See dust warning on page 3.

¼" x 1/16" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
100	100	**410-0100**	**$1.68**	**$1.51**	**$1.35**
150	150	**410-0150**	**1.68**	**1.51**	**1.35**
200	220	**410-0200**	**1.68**	**1.51**	**1.35**
300	320	**410-0300**	**1.97**	**1.77**	**1.58**
400	400	**410-0400**	**1.97**	**1.77**	**1.58**
600	600	**410-0600**	**2.46**	**2.21**	**1.98**

5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
10	100	**415-1000**	**$1.48**	**$1.33**	**$1.19**
15	150	**415-1001**	**1.48**	**1.33**	**1.19**
20	220	**415-1002**	**1.48**	**1.33**	**1.19**
30	320	**415-1003**	**1.48**	**1.33**	**1.19**
40	400	**415-1004**	**1.48**	**1.33**	**1.19**
60	600	**415-1006**	**1.65**	**1.49**	**1.33**

¼" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1101	100	**410-1101**	**$2.30**	**$2.07**	**$1.85**
1151	150	**410-1151**	**2.30**	**2.07**	**1.85**
1201	220	**410-1201**	**2.30**	**2.07**	**1.85**
1301	320	**410-1301**	**2.69**	**2.42**	**2.16**
1401	400	**410-1401**	**2.69**	**2.42**	**2.16**
1601	600	**410-1601**	**3.32**	**2.99**	**2.67**

¼" x ¼" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1102	100	**410-1102**	**$2.33**	**$2.10**	**$1.87**
1152	150	**410-1152**	**2.33**	**2.10**	**1.87**
1202	220	**410-1202**	**2.33**	**2.10**	**1.87**
1302	320	**410-1302**	**2.76**	**2.48**	**2.22**
1402	400	**410-1402**	**2.76**	**2.48**	**2.22**
1602	600	**410-1602**	**3.40**	**3.06**	**2.73**

½" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1103	100	**410-1103**	**$2.61**	**$2.35**	**$2.10**
1153	150	**410-1153**	**2.61**	**2.35**	**2.10**
1203	220	**410-1203**	**2.61**	**2.35**	**2.10**
1303	320	**410-1303**	**3.09**	**2.78**	**2.48**
1403	400	**410-1403**	**3.09**	**2.78**	**2.48**
1603	600	**410-1603**	**3.89**	**3.50**	**3.13**

½" x ¼" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1104	100	**410-1104**	**$3.14**	**$2.83**	**$2.52**
1154	150	**410-1154**	**3.14**	**2.83**	**2.52**
1204	220	**410-1204**	**3.14**	**2.83**	**2.52**
1304	320	**410-1304**	**3.73**	**3.36**	**3.00**
1404	400	**410-1404**	**3.73**	**3.36**	**3.00**
1604	600	**410-1604**	**4.90**	**4.41**	**3.94**

½" x ½" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
1105	120	**410-1105**	**$5.02**	**$4.52**	**$4.03**
1155	150	**410-1155**	**5.02**	**4.52**	**4.03**
1205	220	**410-1205**	**5.02**	**4.52**	**4.03**
1305	320	**410-1305**	**5.94**	**5.35**	**4.77**
1405	400	**410-1405**	**5.94**	**5.35**	**4.77**
1605	600	**410-1605**	**9.65**	**8.69**	**7.75**

1" x 1" x 6" (not shown)

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
1106	100	**410-1106**	**$10.55**	**$9.50**	**$8.48**
1156	150	**410-1156**	**10.55**	**9.50**	**8.48**
1206	220	**410-1206**	**10.55**	**9.50**	**8.48**
1306	320	**410-1306**	**14.09**	**12.68**	**11.32**
1406	400	**410-1406**	**14.09**	**12.68**	**11.32**
1606	600	**410-1606**	**20.94**	**18.85**	**16.83**

Round, ¼" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
102	100	**410-0102**	**$4.32**	**$3.89**	**$3.47**
152	150	**410-0152**	**4.32**	**3.89**	**3.47**
222	220	**410-0222**	**4.32**	**3.89**	**3.47**
322	320	**410-0322**	**5.10**	**4.59**	**4.10**
422	400	**410-0422**	**5.10**	**4.59**	**4.10**
622	600	**410-0622**	**6.30**	**5.67**	**5.06**

Hybrid, ¼" x ¼" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
023H	100	**410-0023**	**$3.03**	**$2.73**	**$2.43**
123H	150	**410-0123**	**3.03**	**2.73**	**2.43**
223H	220	**410-0223**	**3.03**	**2.73**	**2.43**
323H	320	**410-0323**	**3.58**	**3.22**	**2.88**
423H	400	**410-0423**	**3.58**	**3.22**	**2.88**
623H	600	**410-0623**	**4.42**	**3.98**	**3.55**

6pc Six-piece minimum; please order in multiples of six. *12pc Twelve-piece minimum; please order in multiples of twelve.*

Gesswein® Moldmaker PLUS Stones

- A premium complement to the Moldmaker Series.
- Produces a silky matte finish on all prehardened tool steels, from 28Rc SAE 4130 through 60Rc A2 and M2. Can also be used to rough out aluminum, beryllium copper and kirksite.
- Medium stone with slower breakdown characteristics than our standard Moldmaker stones.
- General-purpose, premium-grade green silicon carbide stones.
- A good choice for stoning contours and radii.
- **Sold in full box quantities of 6 or 12 each as indicated.**

IMPORTANT: See dust warning on page 3.

See Our Sampler Sets on pages 19-21

5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
15P	150	**415-1015**	**$1.57**	**$1.41**	**$1.26**
20P	220	**415-1020**	**1.57**	**1.41**	**1.26**
30P	320	**415-1030**	**1.57**	**1.41**	**1.26**
40P	400	**415-1040**	**1.57**	**1.41**	**1.26**
60P	600	**415-1060**	**1.78**	**1.60**	**1.43**
80P	800	**415-1080**	**1.97**	**1.77**	**1.58**
200P	1200	**415-1200**	**2.26**	**2.03**	**1.82**

1/4" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1101P	100	**412-1101**	**$2.52**	**$2.27**	**$2.02**
1151P	150	**412-1151**	**2.52**	**2.27**	**2.02**
1201P	220	**412-1201**	**2.52**	**2.27**	**2.02**
1301P	320	**412-1301**	**2.97**	**2.67**	**2.39**
1401P	400	**412-1401**	**2.97**	**2.67**	**2.39**
1601P	600	**412-1601**	**3.66**	**3.29**	**2.94**
1801P	800	**412-1801**	**4.05**	**3.65**	**3.25**
2001P	1200	**412-2001**	**4.84**	**4.36**	**3.89**

1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1102P	100	**412-1102**	**$2.57**	**$2.31**	**$2.07**
1152P	150	**412-1152**	**2.57**	**2.31**	**2.07**
1202P	220	**412-1202**	**2.57**	**2.31**	**2.07**
1302P	320	**412-1302**	**3.03**	**2.73**	**2.43**
1402P	400	**412-1402**	**3.03**	**2.73**	**2.43**
1602P	600	**412-1602**	**3.73**	**3.36**	**3.00**
1802P	800	**412-1802**	**4.12**	**3.71**	**3.31**
2002P	1200	**412-2002**	**4.94**	**4.45**	**3.97**

1/2" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1103P	100	**412-1103**	**$2.87**	**$2.58**	**$2.31**
1153P	150	**412-1153**	**2.87**	**2.58**	**2.31**
1203P	220	**412-1203**	**2.87**	**2.58**	**2.31**
1303P	320	**412-1303**	**3.37**	**3.03**	**2.71**
1403P	400	**412-1403**	**3.37**	**3.03**	**2.71**
1603P	600	**412-1603**	**4.29**	**3.86**	**3.45**
1803P	800	**412-1803**	**4.73**	**4.26**	**3.80**
2003P	1200	**412-2003**	**5.67**	**5.10**	**4.56**

1/2" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1104P	100	**412-1104**	**$3.46**	**$3.11**	**$2.78**
1154P	150	**412-1154**	**3.46**	**3.11**	**2.78**
1204P	220	**412-1204**	**3.46**	**3.11**	**2.78**
1304P	320	**412-1304**	**4.12**	**3.71**	**3.31**
1404P	400	**412-1404**	**4.12**	**3.71**	**3.31**
1604P	600	**412-1604**	**5.37**	**4.83**	**4.31**
1804P	800	**412-1804**	**5.91**	**5.32**	**4.75**
2004P	1200	**412-2004**	**7.11**	**6.40**	**5.71**

1/2" x 1/2" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
1105P	100	**412-1105**	**$5.52**	**$4.97**	**$4.44**
1155P	150	**412-1155**	**5.52**	**4.97**	**4.44**
1205P	220	**412-1205**	**5.52**	**4.97**	**4.44**
1305P	320	**412-1305**	**6.54**	**5.89**	**5.25**
1405P	400	**412-1405**	**6.54**	**5.89**	**5.25**
1605P	600	**412-1605**	**10.62**	**9.56**	**8.53**
1805P	800	**412-1805**	**11.68**	**10.51**	**9.38**
2005P	1200	**412-2005**	**13.99**	**12.59**	**11.24**

1" x 1" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
1106P	100	**412-1106**	**$11.57**	**$10.41**	**$9.30**
1156P	150	**412-1156**	**11.57**	**10.41**	**9.30**
1206P	220	**412-1206**	**11.57**	**10.41**	**9.30**
1306P	320	**412-1306**	**15.43**	**13.89**	**12.40**

6pc Six-piece minimum; please order in multiples of six.

12pc Twelve-piece minimum; please order in multiples of twelve.

All prices subject to change without notice.

Gesswein® RA Stones

- Aluminum oxide abrasive bonded together with a unique organic resin bond gives these stones great resiliency.
- Retain their shape and have a flexing capability, making them resistant to breakage even during heavy use.
- Leave a finer finish with less stock removal than other stones of the same grit.
- Can be used by hand, in a profiler or in an ultrasonic polisher on all mold and die steels.
- Ideal for finishing slots, deep ribs and other hard-to-reach mold areas and can also be used to remove EDM scale.
- **Sold in full box quantities of twelve each.**

IMPORTANT: See dust warning on page 3.

See Our Sampler Sets on pages 19-21

5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
RA41	180	**415-0410**	**$2.03**	**$1.83**	**$1.63**
RA42	220	**415-0420**	**2.03**	**1.83**	**1.63**
RA43	320	**415-0430**	**2.14**	**1.93**	**1.72**
RA44	400	**415-0440**	**2.14**	**1.93**	**1.72**
RA46	600	**415-0460**	**2.43**	**2.19**	**1.95**

1/4" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
RA4091	90	**420-4091**	**$2.62**	**$2.36**	**$2.11**
RA4121	120	**420-4121**	**2.62**	**2.36**	**2.11**
RA4181	180	**420-4181**	**2.62**	**2.36**	**2.11**
RA4201	220	**420-4201**	**2.62**	**2.36**	**2.11**
RA4301	320	**420-4301**	**3.45**	**3.11**	**2.77**
RA4401	400	**420-4401**	**3.45**	**3.11**	**2.77**
RA4601	600	**420-4601**	**4.17**	**3.75**	**3.35**

1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
RA4092	90	**420-4092**	**$2.72**	**$2.45**	**$2.19**
RA4122	120	**420-4122**	**2.72**	**2.45**	**2.19**
RA4182	180	**420-4182**	**2.72**	**2.45**	**2.19**
RA4202	220	**420-4202**	**2.72**	**2.45**	**2.19**
RA4302	320	**420-4302**	**3.91**	**3.52**	**3.14**
RA4402	400	**420-4402**	**3.91**	**3.52**	**3.14**
RA4602	600	**420-4602**	**4.45**	**4.01**	**3.58**

1/2" x 1/16" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
RA4120	120	**420-4120**	**$3.04**	**$2.74**	**$2.44**
RA4180	180	**420-4180**	**3.04**	**2.74**	**2.44**
RA4200	220	**420-4200**	**3.04**	**2.74**	**2.44**
RA4300	320	**420-4300**	**4.43**	**3.99**	**3.56**
RA4400	400	**420-4400**	**4.43**	**3.99**	**3.56**
RA4600	600	**420-4600**	**5.12**	**4.61**	**4.11**

1/2" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
RA4093	90	**420-4093**	**$3.04**	**$2.74**	**$2.44**
RA4123	120	**420-4123**	**3.04**	**2.74**	**2.44**
RA4183	180	**420-4183**	**3.04**	**2.74**	**2.44**
RA4203	220	**420-4203**	**3.04**	**2.74**	**2.44**
RA4303	320	**420-4303**	**4.43**	**3.99**	**3.56**
RA4403	400	**420-4403**	**4.43**	**3.99**	**3.56**
RA4603	600	**420-4603**	**5.12**	**4.61**	**4.11**

1/2" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
RA4094	90	**420-4094**	**$3.88**	**$3.49**	**$3.12**
RA4124	120	**420-4124**	**3.88**	**3.49**	**3.12**
RA4184	180	**420-4184**	**3.88**	**3.49**	**3.12**
RA4204	220	**420-4204**	**3.88**	**3.49**	**3.12**
RA4304	320	**420-4304**	**5.90**	**5.31**	**4.74**
RA4404	400	**420-4404**	**5.90**	**5.31**	**4.74**
RA4604	600	**420-4604**	**6.65**	**5.99**	**5.34**

Round, 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
RA33	320	**420-0033**	**$4.77**	**$4.29**	**$3.83**

12pc Twelve-piece minimum; please order in multiples of twelve.

Gesswein® General Purpose Stones

- Cuts well, holds their shape and resists loading.
- Made of extra-sharp pure white aluminum oxide grains in a specially formulated bond & a proprietary treatment.
- Suitable for use on both EDM and machined surfaces of all tool and hardened steels.
- Polishers will notice the special treatment provides a lubricating effect.
- **Sold in full box quantities of 6 or 12 each as indicated.**

See Our Sampler Sets on pages 19-21

IMPORTANT: See dust warning on page 3.

5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
15G	150	**415-0315**	**$1.69**	**$1.52**	**$1.36**
18G	180	**415-0318**	**1.69**	**1.52**	**1.36**
22G	220	**415-0320**	**1.69**	**1.52**	**1.36**
32G	320	**415-0330**	**1.69**	**1.52**	**1.36**
42G	400	**415-0340**	**1.69**	**1.52**	**1.36**
60G	600	**415-0360**	**1.91**	**1.72**	**1.53**

1/4" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6151G	150	**406-6151**	**$2.36**	**$2.12**	**$1.90**
6181G	180	**406-6181**	**2.36**	**2.12**	**1.90**
6201G	220	**406-6201**	**2.36**	**2.12**	**1.90**
6301G	320	**406-6301**	**2.45**	**2.21**	**1.97**
6401G	400	**406-6401**	**2.45**	**2.21**	**1.97**
6601G	600	**406-6601**	**2.83**	**2.55**	**2.27**

1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6152G	150	**406-6152**	**$2.47**	**$2.22**	**$1.98**
6182G	180	**406-6182**	**2.47**	**2.22**	**1.98**
6202G	220	**406-6202**	**2.47**	**2.22**	**1.98**
6302G	320	**406-6302**	**2.57**	**2.31**	**2.07**
6402G	400	**406-6402**	**2.57**	**2.31**	**2.07**
6602G	600	**406-6602**	**3.21**	**2.89**	**2.58**

1/2" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6153G	150	**406-6153**	**$2.57**	**$2.31**	**$2.07**
6183G	180	**406-6183**	**2.57**	**2.31**	**2.07**
6203G	220	**406-6203**	**2.57**	**2.31**	**2.07**
6303G	320	**406-6303**	**2.74**	**2.47**	**2.20**
6403G	400	**406-6403**	**2.74**	**2.47**	**2.20**
6603G	600	**406-6603**	**3.39**	**3.05**	**2.72**

1/2" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6154G	150	**406-6154**	**$3.24**	**$2.92**	**$2.60**
6184G	180	**406-6184**	**3.24**	**2.92**	**2.60**
6204G	220	**406-6204**	**3.24**	**2.92**	**2.60**
6304G	320	**406-6304**	**3.77**	**3.39**	**3.03**
6404G	400	**406-6404**	**3.77**	**3.39**	**3.03**
6604G	600	**406-6604**	**4.73**	**4.26**	**3.80**

1" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
6011G	150	**406-6011**	**$3.36**	**$3.36**	**$3.36**
6111G	180	**406-6111**	**3.36**	**3.02**	**2.70**
6211G	220	**406-6211**	**3.36**	**3.02**	**2.70**
6311G	320	**406-6311**	**4.06**	**3.65**	**3.26**
6411G	400	**406-6411**	**4.20**	**3.78**	**3.37**
6611G	600	**406-6611**	**4.99**	**4.49**	**4.01**

1" x 1/4" x 6"

Style	Grit	Item#	6pc 12-60	EACH Prices 72-132	144+
6012G	150	**406-6012**	**$4.77**	**$4.77**	**$4.77**
6112G	180	**406-6112**	**4.77**	**4.29**	**3.83**
6212G	220	**406-6212**	**4.77**	**4.29**	**3.83**
6312G	320	**406-6312**	**5.48**	**4.93**	**4.40**
6412G	400	**406-6412**	**5.65**	**5.09**	**4.54**
6612G	600	**406-6612**	**7.20**	**6.48**	**5.79**

1" x 1/2" x 6"

Style	Grit	Item#	6pc 12-60	EACH Prices 72-132	144+
6157G	150	**406-6157**	**$6.89**	**$6.89**	**$6.89**
6187G	180	**406-6187**	**6.89**	**6.20**	**5.54**
6207G	220	**406-6207**	**6.89**	**6.20**	**5.54**
6307G	320	**406-6307**	**8.15**	**7.34**	**6.55**
6407G	400	**406-6407**	**8.41**	**7.57**	**6.76**
6607G	600	**406-6607**	**9.83**	**8.85**	**7.90**

Hybrid, 1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1523H	150	**406-1523**	**$3.21**	**$2.89**	**$2.58**
1823H	180	**406-1823**	**3.21**	**2.89**	**2.58**
1223H	220	**406-1223**	**3.21**	**2.89**	**2.58**
1323H	320	**406-1323**	**3.35**	**3.02**	**2.69**
1423H	400	**406-1423**	**3.35**	**3.02**	**2.69**
1623H	600	**406-1623**	**4.17**	**3.75**	**3.35**

Round, 1/4" x 6"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
152	150	**406-0152**	**$4.47**	**$4.02**	**$3.59**
182	180	**406-0182**	**4.47**	**4.02**	**3.59**
222	220	**406-0222**	**4.47**	**4.02**	**3.59**
322	320	**406-0322**	**4.80**	**4.32**	**3.86**
402	400	**406-0402**	**4.80**	**4.32**	**3.86**
602	600	**406-0602**	**5.55**	**5.00**	**4.46**

6pc *Six-piece minimum; please order in multiples of six*

12pc *Twelve-piece minimum; please order in multiples of twelve.*

All prices subject to change without notice.

Gesswein® Premium White Stones

- Pure white premium-grade aluminum oxide stones.
- Specially formulated to be load-resistant.
- Can be used on all steels, from the hard A2, D2 and M2 to the softer P20, 420SS, M13 & S7.
- Moderate breakdown, retain their shape wells.
- Can be used in a profiler or ultrasonic polisher.
- **Sold in full box quantities of twelve each.**

IMPORTANT: See dust warning on page 3.

See Our Sampler Sets on pages 19-21

5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
2W	220	**415-5002**	**$1.87**	**$1.68**	**$1.50**
3W	320	**415-5003**	**1.87**	**1.68**	**1.50**
4W	400	**415-5004**	**1.87**	**1.68**	**1.50**
6W	600	**415-5006**	**2.10**	**1.89**	**1.69**

1/4" x 1/16" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5210W	220	**407-5210**	**$1.84**	**$1.66**	**$1.48**
5310W	320	**407-5310**	**2.05**	**1.85**	**1.65**
5410W	400	**407-5410**	**2.05**	**1.85**	**1.65**

1/4" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5101W	100	**407-5101**	**$2.54**	**$2.29**	**$2.04**
5151W	150	**407-5151**	**2.54**	**2.29**	**2.04**
5201W	220	**407-5201**	**2.54**	**2.29**	**2.04**
5301W	320	**407-5301**	**2.72**	**2.45**	**2.19**
5401W	400	**407-5401**	**2.72**	**2.45**	**2.19**
5601W	600	**407-5601**	**3.13**	**2.82**	**2.51**

1/4" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5102W	100	**407-5102**	**$2.80**	**$2.52**	**$2.25**
5152W	150	**407-5152**	**2.80**	**2.52**	**2.25**
5202W	220	**407-5202**	**2.80**	**2.52**	**2.25**
5302W	320	**407-5302**	**2.99**	**2.69**	**2.40**
5402W	400	**407-5402**	**2.99**	**2.69**	**2.40**
5602W	600	**407-5602**	**3.60**	**3.24**	**2.89**

1/2" x 1/8" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5103W	100	**407-5103**	**$2.87**	**$2.58**	**$2.31**
5153W	150	**407-5153**	**2.87**	**2.58**	**2.31**
5203W	220	**407-5203**	**2.87**	**2.58**	**2.31**
5303W	320	**407-5303**	**3.05**	**2.75**	**2.45**
5403W	400	**407-5403**	**3.05**	**2.75**	**2.45**
5603W	600	**407-5603**	**4.23**	**3.81**	**3.40**

1/2" x 1/4" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5104W	100	**407-5104**	**$3.47**	**$3.12**	**$2.79**
5154W	150	**407-5154**	**3.47**	**3.12**	**2.79**
5204W	220	**407-5204**	**3.47**	**3.12**	**2.79**
5304W	320	**407-5304**	**3.85**	**3.47**	**3.09**
5404W	400	**407-5404**	**3.85**	**3.47**	**3.09**
5604W	600	**407-5604**	**5.57**	**5.01**	**4.48**

A-C Double Enders

Will accommodate pencil stones as well as small round and square stones up to 1/4" x 1/4". Available in three colors (blue, black and red) that may be used to distinguish one grit or grade of stone from another. Set of three (#403-0120) contains one of each color. Measure 5⅞" overall length.

Description	Item#	EACH Prices 1-2	3+
A. Blue	**403-0101**	**$5.75**	**$5.18**
B. Black	**403-0102**	**5.75**	**5.18**
C. Red	**403-0103**	**5.75**	**5.18**
Set of 3	**403-0120**	**14.00**	**13.30**

12pc *Twelve-piece minimum; please order in multiples of twelve.*

Gesswein® Rough Out Stones

- Large, coarse, relatively soft stones containing aluminum oxide.
- Cuts fast with rapid breakdown.
- Quickly remove rough scratches and machine tool marks.
- A good choice for roughing surfaces of larger molds and dies.
- Ideal for "hogging" out large amounts of material prior to finishing.
- **Sold in full box quantities of 6 or 12 each as indicated.**

IMPORTANT: See dust warning on page 3.

¼" x ¼" x 8"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
X8002	100	**430-8002**	**$1.96**	**$1.76**	**$1.57**

½" x ¼" x 6"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
X8004	100	**430-8004**	**$3.29**	**$2.96**	**$2.64**

1" x ¼" x 8"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
X8080	80	**430-8080**	**$4.44**	**$4.00**	**$3.57**
X8100	100	**430-8100**	**4.44**	**4.00**	**3.57**
X8150	150	**430-8150**	**4.44**	**4.00**	**3.57**
X8200	220	**430-8200**	**4.44**	**4.00**	**3.57**

1" x ½" x 8"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
X8081	80	**430-8081**	**$5.48**	**$4.93**	**$4.40**
X8101	100	**430-8101**	**5.48**	**4.93**	**4.40**
X8151	150	**430-8151**	**5.48**	**4.93**	**4.40**
X8201	220	**430-8201**	**5.48**	**4.93**	**4.40**

1½" x ¾" x 8"

Style	Grit	Item#	6pc 6-66	EACH Prices 72-138	144+
X8082	80	**430-8082**	**$8.82**	**$7.94**	**$7.09**
X8102	100	**430-8102**	**8.82**	**7.94**	**7.09**
X8152	150	**430-8152**	**8.82**	**7.94**	**7.09**
X8202	220	**430-8202**	**8.82**	**7.94**	**7.09**

Gesswein® Stoning and Lubricating Oil

This special lubricant was developed for the mold and die finisher. It is economical and practically odorless, and it evaporates slowly. Recommended for fast cutting and for finishing operations. Helps prevent loading. Lets stones cut better and more freely so they produce a bright, smooth surface. Eliminates the need for hazardous kerosene. Can also use with diamond tools where lubrication is suggested. Viscosity: 38/45.

	Description	Item#	Each
A.	1 Pint (wide-mouth glass container)	**800-0100**	**$13.75**
B.	1 Gallon	**800-0110**	**44.95**

6pc *Six-piece minimum; please order in multiples of six.*

12pc *Twelve-piece minimum; please order in multiples of twelve.*

All prices subject to change without notice.

Gesswein® Ultra-Soft Stones

- Aluminum oxide abrasive with a special bonding agent designed for very rapid breakdown.
- Cuts fast without loading; easily shaped for contours.
- Formulated for soft metals, stainless steel, aluminum,brass, beryllium and kirksite.
- **Sold in full box quantities of 6 or 12 each as indicated.**

Gesswein® Super Fine Stones

- Contain levigated (finely powdered) alumina.
- One of our "softest" stones for finishing P20 and 420SS steel surfaces. Breaks down very rapidly and does not scratch.
- Good choice for finishing details.
- Not quite as soft as our Ultra-Soft stones.
- **Sold in full box quantities of 12 each.**

IMPORTANT: See dust warning on page 3.

See Our Sampler Sets on pages 19-21

¼" x ¼" x 6"

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
7102	120	**450-7102**	**$2.52**	**$2.27**	**$2.02**
7202	220	**450-7202**	**2.52**	**2.27**	**2.02**
7302	320	**450-7302**	**2.86**	**2.57**	**2.30**
7402	400	**450-7402**	**2.86**	**2.57**	**2.30**
7602	600	**450-7602**	**3.47**	**3.12**	**2.79**
7002	1200	**450-7002**	**5.20**	**4.68**	**4.18**

½" x ⅛" x 6

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
7103	120	**450-7103**	**$2.87**	**$2.58**	**$2.31**
7203	220	**450-7203**	**2.87**	**2.58**	**2.31**
7303	320	**450-7303**	**3.05**	**2.75**	**2.45**
7403	400	**450-7403**	**3.05**	**2.75**	**2.45**
7603	600	**450-7603**	**3.67**	**3.30**	**2.95**
7003	1200	**450-7003**	**5.50**	**4.95**	**4.42**

½" x ¼" x 6"

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
7104	120	**450-7104**	**$3.32**	**$2.99**	**$2.67**
7204	220	**450-7204**	**3.32**	**2.99**	**2.67**
7304	320	**450-7304**	**3.84**	**3.46**	**3.09**
7404	400	**450-7404**	**3.84**	**3.46**	**3.09**
7604	600	**450-7604**	**5.15**	**4.64**	**4.14**
7004	1200	**450-7004**	**7.73**	**6.96**	**6.21**

1" x ½" x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
7107	120	**450-7107**	**$6.22**	**$5.60**	**$5.00**
7307	320	**450-7307**	**9.59**	**8.63**	**7.71**
7607	600	**450-7607**	**13.74**	**12.37**	**11.04**
7007	1200	**450-7007**	**20.62**	**18.56**	**16.57**

1" x 1" x 6"

Style	Grit	Item#	EACH Prices 6pc 6-66	72-138	144+
7106	120	**450-7106**	**$10.30**	**$9.27**	**$8.28**
7306	320	**450-7306**	**14.33**	**12.90**	**11.51**
7606	600	**450-7606**	**21.90**	**19.71**	**17.60**
7006	1200	**450-7006**	**32.00**	**28.80**	**25.71**

⅝" x ⅝" x 4"

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
12	1200	**415-0120**	**$1.91**	**$1.72**	**$1.53**

¼" x ⅛" x 6"

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
9001	1200	**440-9001**	**$3.01**	**$2.71**	**$2.42**

¼" x ¼" x 6"

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
9002	1200	**440-9002**	**$3.47**	**$3.12**	**$2.79**

½" x ⅛" x 6"

Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
9003	1200	**440-9003**	**$3.97**	**$3.57**	**$3.19**

½" x ¼" x 6"

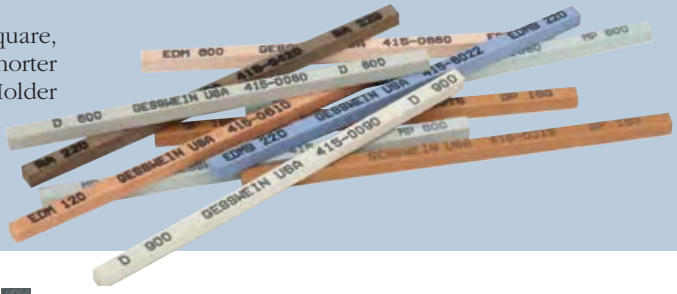
Style	Grit	Item#	EACH Prices 12pc 12-60	72-132	144+
9004	1200	**440-9004**	**$4.78**	**$4.30**	**$3.84**

6pc Six-piece minimum; please order in multiples of six.

12pc Twelve-piece minimum; please order in multiples of twelve.

Gesswein® Pencil Stones

A selection of our most popular finishing stones in a 4" long x 5/32" square, making them convenient for stoning small or intricate areas. Shorter length helps prevent wasteful breakage. Use with Pencil Stone Holder #403-0050, shown on page 22. **Sold in full box quantities of 12 or in a money-saving set (see below).**



IMPORTANT: See dust warning on page 3.

Diemaker – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1	150	415-0010	$1.61	$1.45	$1.29
2	220	415-0020	1.61	1.45	1.29
3	320	415-0030	1.61	1.45	1.29
4	400	415-0040	1.61	1.45	1.29
6	600	415-0060	1.82	1.64	1.46
8	800	415-0080	1.82	1.64	1.46
9	900	415-0090	1.82	1.64	1.46
1200	1200	415-4080	2.00	1.80	1.61

EDM – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
61	120	415-0610	$1.69	$1.52	$1.36
62	180	415-0620	1.69	1.52	1.36
622	220	415-0622	1.69	1.52	1.36
63	320	415-0630	1.69	1.52	1.36
64	400	415-0640	1.69	1.52	1.36
66	600	415-0660	1.91	1.72	1.53

EDM Blue – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
61B	120	415-6010	$1.69	$1.52	$1.36
62B	180	415-6020	1.69	1.52	1.36
622B	220	415-6022	1.69	1.52	1.36
63B	320	415-6030	1.69	1.52	1.36
64B	400	415-6040	1.69	1.52	1.36
66B	600	415-6060	1.91	1.72	1.53

Oil-Treated – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
51	120	415-0510	$1.69	$1.52	$1.36
50	180	415-0518	1.69	1.52	1.36
52	220	415-0520	1.69	1.52	1.36
53	320	415-0530	1.69	1.52	1.36
54	400	415-0540	1.69	1.52	1.36
56	600	415-0560	1.91	1.72	1.53
58	800	415-0580	1.91	1.72	1.53
59	1200	415-0590	2.17	1.95	1.74

Super Fine – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
12	1200	415-0120	$1.91	$1.72	$1.53

Premium White – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
2W	220	415-5002	$1.87	$1.68	$1.50
3W	320	415-5003	1.87	1.68	1.50
4W	400	415-5004	1.87	1.68	1.50
6W	600	415-5006	2.10	1.89	1.69

12pc Twelve-piece minimum; please order in multiples of twelve.

Moldmaker – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
10	100	415-1000	$1.48	$1.33	$1.19
15	150	415-1001	1.48	1.33	1.19
20	220	415-1002	1.48	1.33	1.19
30	320	415-1003	1.48	1.33	1.19
40	400	415-1004	1.48	1.33	1.19
60	600	415-1006	1.65	1.49	1.33

Moldmaker Plus – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
15P	150	415-1015	$1.57	$1.41	$1.26
20P	220	415-1020	1.57	1.41	1.26
30P	320	415-1030	1.57	1.41	1.26
40P	400	415-1040	1.57	1.41	1.26
60P	600	415-1060	1.78	1.60	1.43
80P	800	415-1080	1.97	1.77	1.58
200P	1200	415-1200	2.26	2.03	1.82

RA – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
RA41	180	415-0410	$2.03	$1.83	$1.63
RA42	220	415-0420	2.03	1.83	1.63
RA43	320	415-0430	2.14	1.93	1.72
RA44	400	415-0440	2.14	1.93	1.72
RA46	600	415-0460	2.43	2.19	1.95

GP – 55/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
15G	150	415-0315	$1.69	$1.52	$1.36
18G	180	415-0318	1.69	1.52	1.36
22G	220	415-0320	1.69	1.52	1.36
32G	320	415-0330	1.69	1.52	1.36
42G	400	415-0340	1.69	1.52	1.36
60G	600	415-0360	1.91	1.72	1.53

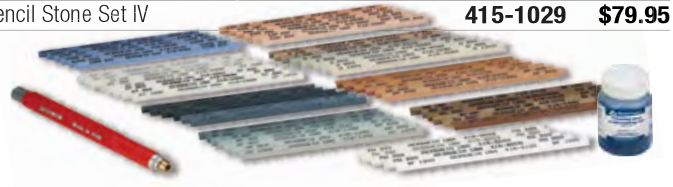
Medium India – 5/32" x 5/32" x 4"

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
10	240	415-0100	$2.00	$1.80	$1.61

Gesswein® Pencil Stone Set IV

Includes one each of every pencil stone we make, in every grit, for a total of 58 stones, including RA, EDM, EDM Blue, GP, Premium White, Oil-Treated, Diemaker, Moldmaker Plus, Moldmaker, Super Fine and Medium India. Complete with Pencil Stone Holder and a free sample of Gesswein Stoning Oil.

Description	Item#	Each
Pencil Stone Set IV	415-1029	$79.95



All prices subject to change without notice.

Gesswein® Hybrid Stones

Our Hybrid shape (half-round and half-square) combines all the advantages of round and flat stones without the higher costs normally associated with round stones. Use the round side on curved surfaces, the flat side on even surfaces and in 90° corners and slots.
Measures ¼" x ¼" x 6" long and are available in our most popular styles: Diemaker, EDM, GP, Moldmaker and Oil-Treated. **Sold in full box quantities of 12.**

IMPORTANT: See dust warning on page 3.

Also available in a 20-piece set (see below)

¼" x ¼" x 6" Diemaker

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
2123H	150	**405-2123**	**$3.12**	**$2.81**	**$2.51**
2223H	220	**405-2223**	**3.12**	**2.81**	**2.51**
2323H	320	**405-2323**	**3.47**	**3.12**	**2.79**
2423H	400	**405-2423**	**3.47**	**3.12**	**2.79**
2623H	600	**405-2623**	**3.97**	**3.57**	**3.19**
2823H	800	**405-2823**	**3.97**	**3.57**	**3.19**
2923H	900	**405-2923**	**4.75**	**4.28**	**3.82**
4023H	1200	**405-4023**	**5.23**	**4.71**	**4.20**

¼" x ¼" x 6" Oil-Treated

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
5123H	120	**435-5123**	**$3.57**	**$3.21**	**$2.87**
5023H	180	**435-5023**	**3.57**	**3.21**	**2.87**
5223H	220	**435-5223**	**3.57**	**3.21**	**2.87**
5323H	320	**435-5323**	**3.72**	**3.35**	**2.99**
5423H	400	**435-5423**	**3.72**	**3.35**	**2.99**
5623H	600	**435-5623**	**4.63**	**4.17**	**3.72**
5823H	800	**435-5823**	**4.87**	**4.38**	**3.91**
5923H	1200	**435-5923**	**5.33**	**4.80**	**4.28**

¼" x ¼" x 6" EDM

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
123H	120	**425-0123**	**$3.32**	**$2.99**	**$2.67**
183H	180	**425-0183**	**3.32**	**2.99**	**2.67**
223H	220	**425-0223**	**3.32**	**2.99**	**2.67**
323H	320	**425-0323**	**3.53**	**3.18**	**2.84**
423H	400	**425-0423**	**3.53**	**3.18**	**2.84**
623H	600	**425-0623**	**4.27**	**3.84**	**3.43**

¼" x ¼" x 6" Moldmaker

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
023H	100	**410-0023**	**$3.03**	**$2.73**	**$2.43**
123H	150	**410-0123**	**3.03**	**2.73**	**2.43**
223H	220	**410-0223**	**3.03**	**2.73**	**2.43**
323H	320	**410-0323**	**3.58**	**3.22**	**2.88**
423H	400	**410-0423**	**3.58**	**3.22**	**2.88**
623H	600	**410-0623**	**4.42**	**3.98**	**3.55**

New Hybrid
(half-round / half-square)

¼" x ¼" x 6" GP

Style	Grit	Item#	12pc 12-60	EACH Prices 72-132	144+
1523H	150	**406-1523**	**$3.21**	**$2.89**	**$2.58**
1823H	180	**406-1823**	**3.21**	**2.89**	**2.58**
1223H	220	**406-1223**	**3.21**	**2.89**	**2.58**
1323H	320	**406-1323**	**3.35**	**3.02**	**2.69**
1423H	400	**406-1423**	**3.35**	**3.02**	**2.69**
1623H	600	**406-1623**	**4.17**	**3.75**	**3.35**

12pc Twelve-piece minimum; please order in multiples of twelve.

Made in the USA

Gesswein® 20-Piece Hybrid Stone Set

Our new Hybrid shape (half-round and half-square) combines all the advantages of round and flat stones without the higher costs normally associated with round stones.

Set contains 20 Hybrid stones.
Four each of the following in 220, 320, 400 and 600 grit:

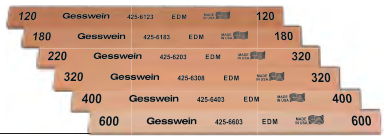
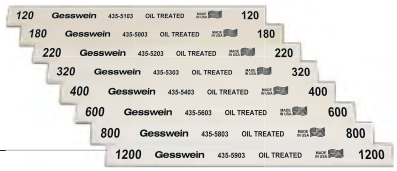
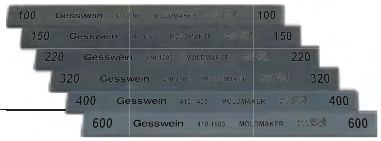
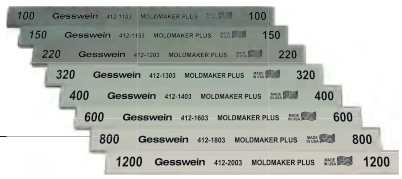
- Diemaker
- EDM
- GP
- Moldmaker
- Oil-Treated

Description		Item#	Each
Hybrid Stone Set	¼" x ¼" x 6"	**405-2086**	**$51.00**

A-J Gesswein® Finishing Stone All-Grit Sets ½" x ⅛" x 6"

In order to try our most popular Gesswein stone types, we have created these sets ranging from 6 to 8 pieces covering all the grits available in the most popular ½" x ⅛" x 6" Size. Choose from Diemaker, EDM, EDM Blue, GP, Moldmaker, Moldmaker Plus, Oil-Treated, Premium White Stone, Ultra-Soft and RA Sets. Or, select our 68-Piece Finishing Stone Sampler Set below.

IMPORTANT: See dust warning on page 3.

Sets	Grits	Item#	Set	
Diemaker All-Grit Set - 8 pcs.	150, 220, 320, 400, 600, 800, 900, 1200	**405-2061**	**$23.95**	A
EDM All-Grit Set - 6 pcs.	120, 180, 220, 320, 400, 600	**405-2031**	**16.25**	 B
EDM Blue All-Grit Set - 6 pcs.	120, 180, 220, 320, 400, 600	**405-2041**	**13.25**	C
Oil-Treated All-Grit Set - 8 pcs.	120, 180, 220, 320, 400, 600, 800, 1200	**405-2091**	**23.95**	 D
Moldmaker All-Grit Set - 6 pcs.	100, 150, 220, 320, 400, 600	**405-2066**	**15.95**	 E
Moldmaker Plus All-Grit Set - 8 pcs.	100, 150, 220, 320, 400, 600, 800, 1200	**405-2021**	**26.95**	 F
GP All-Grit Set - 6 pcs.	150, 180, 220, 320, 400, 600	**405-2096**	**21.50**	G
Premium White All-Grit Set - 6 pcs.	100, 150, 220, 320, 400, 600	**405-2011**	**16.95**	H
Ultra-Soft All-Grit Set - 6 pcs.	120, 220, 320,400, 600, 1200	**405-2006**	**17.50**	I
RA All-Grit Set - 7 pcs.	90, 120, 180, 220, 320, 400, 600	**405-2001**	**23.50**	J

K. Gesswein® 68-Piece Finishing Stone Set

You never know when you need that special stone for an unexpected job. Keep this Finishing Stone Set handy to avoid such an occurrence. The set includes 10 Gesswein stone styles, those above, except for the GP set, in the most popular size: ½" wide x ⅛" thick x 6" long. Also included are a 2 oz. bottle of Gesswein Stoning Oil and a double-ended LT Stone Holder.

Description	Item#	EACH	
68-piece Finishing Stone Set	**405-2053**	**$129.50**	K

A-H Gesswein® 12-Piece Finishing Stone Sampler Sets

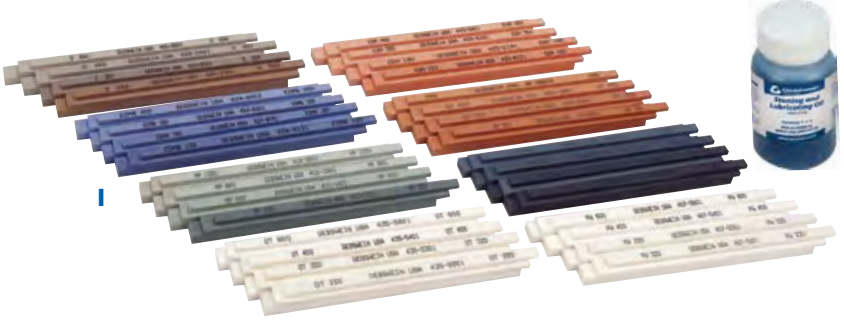
¼" x ⅛" ½" x ⅛" ½" x ¼"

We offer eight 12-piece stone sets of our most popular stones. Choose from Diemaker, EDM, EDM Blue, GP, Moldmaker, Moldmaker Plus, Oil-Treated and Premium White Stone Sets. Or, select our Discovery Stone Set below, which includes all eight sets. Each Finishing Stone Set serves as a perfect introduction to our popular stone lines, and includes four different grits of the three most popular sizes: ¼" x ⅛", ½" x ⅛", ½" x ¼"; all 6" in length.

IMPORTANT: See dust warning on page 3.

		Sets	Grits	Item#	Set of 12
A		Diemaker Stone Set	220, 320, 400, 600	**405-2060**	**$37.00**
B		EDM Stone Set	120, 180, 320, 400	**405-2030**	**35.00**
C		EDM Blue Stone Set	120, 180, 320, 400	**405-2040**	**35.00**
D		Oil-Treated Stone Set	220, 320, 400, 600	**405-2090**	**41.00**
E		Moldmaker Stone Set	220, 320, 400, 600	**405-2065**	**39.00**
F		Moldmaker Plus Stone Set	220, 400, 800, 1200	**405-2020**	**49.00**
G		GP Stone Set	220, 320, 400, 600	**405-2095**	**33.00**
H		Premium White Stone Set	220, 320, 400, 600	**405-2010**	**37.00**

Made in the USA

I 

I. Gesswein® 96-Piece Discovery Stone Set

Includes all 8 of our 12-Piece Sets. This is our most comprehensive set with a total of 96 of our most popular stones. By purchasing all these sets at once, you save over the combined price of buying all the sets individually. Comes complete with a free sample of Gesswein Stoning Oil.

Description	Item#	EACH
96-piece Finishing Stone Set	**405-2027**	**$199.00**

A. Gesswein® 20-Piece General Purpose Sets

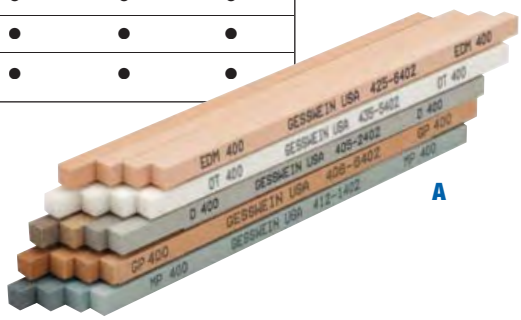
Four 20-piece stone sets offered in our most popular stone sizes. Each set includes five different types of stones of the same size in four different grits. All stones measure 6" long.

IMPORTANT: See dust warning on page 3.

Set contains one each of the following grits and types of stones. Simply select the size you require.

	120 Grit	150 Grit	180 Grit	220 Grit	320 Grit	400 Grit
EDM			●	●	●	●
Oil-Treated	●			●	●	●
Diemaker		●		●	●	●
GP		●		●	●	●
Moldmaker Plus		●		●	●	●

Size	Item#	Set of 20
1/4" x 1/8" x 6" Stone Set	**405-2035**	**$45.00**
1/4" x 1/4" x 6" Stone Set	**405-2045**	**47.00**
1/2" x 1/8" x 6" Stone Set	**405-2055**	**51.00**
1/2" x 1/4" x 6" Stone Set	**405-2075**	**64.00**



A

B. Gesswein® 20-Piece Soft & Fine Set

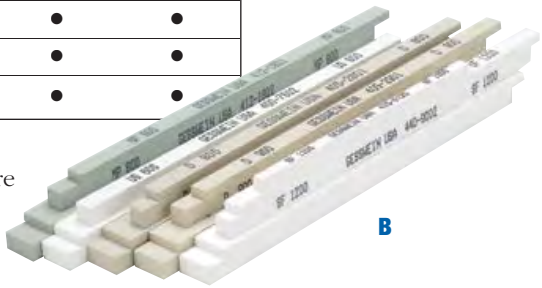
Includes 5 different types of stones in various sizes ideal for final finishing and for preparation prior to diamond polishing. Use Diemaker (800 and 900 grit) and Super Fine (1200 grit) for polishing steel surfaces, Moldmaker Plus (800 grit) for radius-polishing stainless steel surfaces and Ultra-Soft (600 grit) for polishing aluminum and other soft metal surfaces. All stones measure 6" long except 5/32" x 5/32" Super Fine, which measures 4" long.

IMPORTANT: See dust warning on page 3.

Set contains one each of the following stones:

	Grit	5/32" x 5/32"	1/4" x 1/8"	1/4" x 1/4"	1/2" x 1/8"	1/2" x 1/4"
Diemaker	800		●	●	●	●
Diemaker	900		●	●	●	●
Moldmaker Plus	800		●	●	●	●
Super Fine	1200	●	●	●	●	●
Ultra-Soft	600			●	●	●

Description	Item#	Set of 20
Soft & Fine Set	**405-2085**	**$66.00**


B

C. Rub-and-Rinse Stone Cleaner

Gesswein Rub-and-Rinse Stone Cleaner is a semiliquid material that sheds tiny metal particles from hard stones to keep them at their peak efficiency. Recommended for use on hard stones such as our Ruby, India and Hard Arkansas Stones. Contains 1/2 fl. oz.

Description	Item#	EACH
Rub-and-Rinse Stone Cleaner	**813-1700**	**$9.80**

C

Stone not included.

D, E Gesswein® Stoning and Lubricating Oil

This special lubricant was developed for the mold and die finisher. It is economical and practically odorless, and it evaporates slowly. Recommended for fast cutting and for finishing operations. Helps prevent loading. Lets stones cut better and more freely so they produce a bright, smooth surface. Eliminates the need for hazardous kerosene. For use with diamond tools where lubrication is suggested. Viscosity: 38/45.

Description	Item#	EACH
D. 1 Pint (wide-mouth glass container)	**800-0100**	**$13.75**
E. 1 Gallon	**800-0110**	**44.95**

D E

F. Plastic Spray-Pump Bottle

Use to dispense stoning oil, cleaning solution and more. Spray gets into hard-to-reach areas. Capacity: 4 fl. oz.

Description	Item#	EACH Prices 1-2	3+
Plastic Spray-Pump Bottle	**811-2460**	**$2.15**	**$1.94**

F

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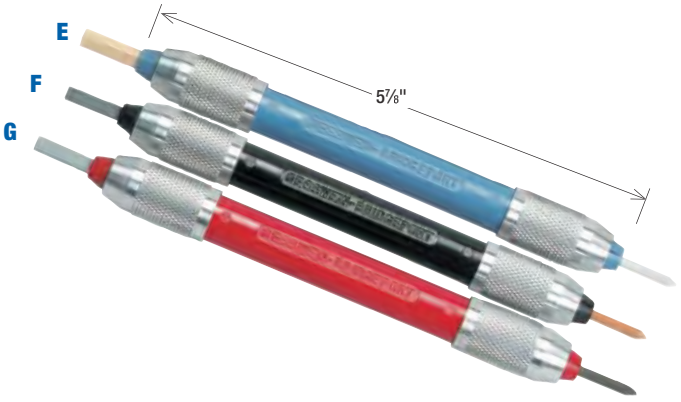
Stone Holders & Accessories



A. LT Stone Holder

An economically priced, lightweight, double-ended stone holder made of durable plastic with a black nonglare finish. One end holds ⅛" x ¼" stones, and the other holds ⅛" x ½" and ¼" x ¼" stones. Measures 5½" long.

Description	Item#	Each
LT Stone Holder	**403-1020**	**$4.80**

B. Screw-Lock Stone Holder

Screw-type lock holds the stone securely. Designed for comfortable use. Holds ½" x ¼" stones. Measures 5⅞" long.

		EACH Prices		
Description	Item#	1-2	3-11	12+
Screw-Lock Stone Holder	**403-0200**	**$13.95**	**$11.86**	**$11.16**

C. Handheld Stone Holders

Lightweight aluminum holders designed to hold stones firmly for roughing applications. Measures 7½" long.

	For Stone Sizes	Item#	Each
C.	¼" x ½"	**403-0355**	**$49.50**
	½" x ½"	**403-0350**	**49.50**

D. Pencil Stone Holder

Push-button holder for easy loading. Holds 5⁄32" square stones. Measures 5¼" long. Made in Italy.

			EACH Prices		
Description		Item#	1-2	3-11	12+
D.	Pencil Stone Holder	**403-0050**	**$9.95**	**$9.35**	**$8.46**
	Replacement Collet	403-0085	**3.25**	**-**	**-**

E-G Double Enders

Will accommodate pencil stones as well as small round and square stones up to 1/4" x 1/4". Available in three colors (blue, black and red) that may be used to distinguish one grit or grade of stone from another. Set of three (#403-0120) contains one of each color. Measure 5⅞" overall length.

			EACH Prices	
	Description	Item#	1-2	3+
E.	Blue	**403-0101**	**$5.75**	**$5.18**
F.	Black	**403-0102**	**5.75**	**5.18**
G.	Red	**403-0103**	**5.75**	**5.18**
	Set of 3, one each	**403-0120**	**14.00**	**13.30**

H-N Ceramic Stone Holders – For offhand work

For handheld work with ceramic stones. Available in 1, 2, 4, 6 and 10mm flat sizes, 3mm round or 0.5mm and 0.9mm square sizes. Measures approximately 5¾" long.

	Description	Item#	Each
	Flat Holder, 1mm	**351-0291**	**$7.90**
H.	Flat Holder, 2mm	**351-0292**	**7.90**
I.	Flat Holder, 4mm	**351-0270**	**7.90**
J.	Flat Holder, 6mm	**351-0271**	**7.90**
K.	Flat Holder, 10mm	**351-0272**	**7.90**
L.	Round Holder, 3mm	**403-0011**	**12.75**
M.	Square Holder, 0.5mm	**351-0345**	**12.75**
N.	Square Holder, 0.9mm	**351-0350**	**12.75**

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A. Adjustable Stone Holder – 3mm Shank

Our finest quality. Made of nonmagnetic stainless steel with a 3mm shank. The surface has been tumble-polished to create a nonreflecting satin finish. Accommodates stones up to 1/4" in thickness.

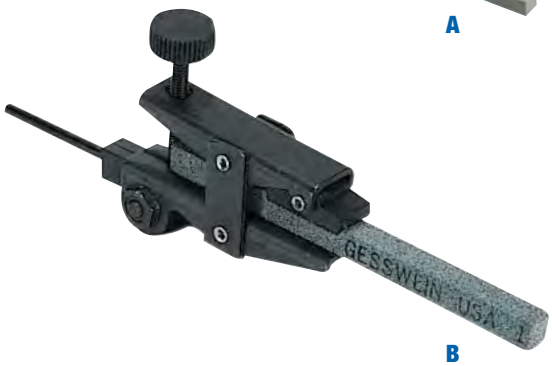
Description	Item#	Each
Adjustable Stone Holder	**403-1000**	**$81.00**

A

B. Economy Adjustable Stone Holder – 3mm Shank

The Economy Adjustable Stone Holder accommodates stones up to 9/16" thick. Plastic serrated jaw holds stones securely. Surface is black and nonreflecting. Made of steel (except serrated jaw and shank housing) with a 3mm shank.

Description	Item#	Each
Economy Adjustable Stone Holder	**403-1015**	**$39.95**



B

C. ST-38 Stone Holder – 3mm Shank

Allows you to secure square, round, and rectangular stones in reciprocating handpieces, including our Power Hand 2X reciprocating handpieces, Di-Profilers and Super Hand Air Filers. Adjustable hinge lets you change the angle of the stone to fit your application. Made of durable plastic with serrated jaws and set screw for tightening stone into place. Accepts round stones up to 1/2" in diameter, rectangular stones up to 3/8"H x 1/2"W and square stones up to 3/8". 3mm steel shank. Complete with allen wrench.

Description	Item#	Each
ST-38 Stone Holder	**403-1010**	**$19.75**

C

D. LT Recipro Stone Holder – 1/8" Shank

Economically priced holder for reciprocating handpieces. Made of durable plastic with black nonglare finish. Shank measures 1/8" dia. x 1/2"L (too short for use with FMH Di-Profiler; acceptable for use with FMC Di-Profiler).

	Description	Item#	EACH Prices 1-2	3+
D.	Small, for 1/8" x 1/4" stones	**403-1025**	**$6.25**	**$5.63**
	Large, for 1/8" x 1/2" and 1/4" x 1/4" stones	**403-1030**	**6.25**	**5.63**

D

E, F DiProfiling Stone Holders – 3mm Shank

Expands the use of your mini-filer or other profilers. Accommodates both flat and round stones or tools up to 1/8". Mini-filer style shank length only 5/8". Overall length 1 7/8". Universal style shank length 1 3/8", overall 2 5/8". Use for finer, more precise profiling jobs.

Description	Item#	Each
E. Mini-Filer Stone Holder	**403-1040**	**$28.50**
F. Universal Tool Holder	**403-1050**	**57.50**

E

F

G. Ceramic Stone Holder – 3mm Shank

Holds up to 1mm thick and up to 8mm wide stones. Shank length 3/4", overall length 1 1/4".

Description	Item#	Each
Ceramic Stone Holder	**403-1045**	**$33.30**

G

Safety Recommendations – For Reciprocating Handpieces

Prolonged use of vibrating or reciprocating tools may result in vibration-induced circulation problems in the hands. Always follow safe operating procedures. Using hand protection (i.e., insulated gloves) and taking frequent breaks can help minimize but not guarantee against injury. Operating these types of tools in cold weather or with a tight grip will reduce the period of operation before risking potential injury. Individuals with a tendency to suffer from poor circulation, frequently cold fingers or itchy hands should closely monitor the condition of their hands. If symptoms appear, seek medical advice immediately.

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NEW SuperStone

Ceramic Stones

Strong yet incredibly flexible!

New Super Stone (NSS) offers an improved cutting ability, increased heat resistance, and longer life. Made of long ceramic fibers that will not break even under the most strenuous conditions, the NSS can be used in ultrasonic polishers, reciprocating profilers, or by hand (see Ceramic Stone Holders on p. 26).

These strong yet flexible stones are ideal for polishing small intricate areas on all types of metals producing consistent and uniform surface finishes. NSS is non-loading and can be shaped with the Super Dresser #351-0300 (see p. 26). Available in 8 easy to identify color coded grits from 120 to 1200. Made in Japan.

IMPORTANT: See dust warning on page 3.

FLAT Stones

Dimensions (mm)	Emerald 120 Grit Item#	Gold 180 Grit Item#	Lt. Brown 300 Grit Item#	Orange 400 Grit Item#	Gray 600 Grit Item#	Blue 800 Grit Item#	White 1000 Grit Item#	Red 1200 Grit Item#	EACH Prices* 1-4	5+
0.5 x 1 x 100	355-0101	355-0201	355-0401	355-0501	355-0601	355-0701	355-0801	355-0901	**$9.95**	**$8.96**
0.5 x 2 x 100	355-0102	355-0202	355-0402	355-0502	355-0602	355-0702	355-0802	355-0902	**13.50**	**12.15**
0.5 x 4 x 100	355-0103	355-0203	355-0403	355-0503	355-0603	355-0703	355-0803	355-0903	**20.90**	**18.81**
0.5 x 6 x 100	355-0104	355-0204	355-0404	355-0504	355-0604	355-0704	355-0804	355-0904	**31.45**	**28.31**
0.5 x 10 x 100	355-0105	355-0205	355-0405	355-0505	355-0605	355-0705	355-0805	355-0905	**41.25**	**37.13**
0.8 x 4 x 100	355-0108	355-0208	355-0408	355-0508	355-0608	355-0708	355-0808	355-0908	**20.90**	**18.81**
0.8 x 6 x 100	355-0109	355-0209	355-0409	355-0509	355-0609	355-0709	355-0809	355-0909	**31.45**	**28.31**
0.8 x 10 x 100	355-0110	355-0210	355-0410	355-0510	355-0610	355-0710	355-0810	355-0910	**41.25**	**37.13**
1 x 1 x 100	355-0111	355-0211	355-0411	355-0511	355-0611	355-0711	355-0811	355-0911	**9.95**	**8.96**
1 x 2 x 100	355-0112	355-0212	355-0412	355-0512	355-0612	355-0712	355-0812	355-0912	**12.00**	**10.80**
1 x 4 x 100	355-0113[a]	355-0213[a]	355-0413[a]	355-0513	355-0613	355-0713[a]	355-0813	355-0913[a]	**20.90**	**18.81**
1 x 6 x 100	355-0114	355-0214	355-0414[a]	355-0514[a]	355-0614[a]	355-0714[a]	355-0814[a]	355-0914	**31.45**	**28.31**
1 x 10 x 100	355-0115	355-0215	355-0415	355-0515	355-0615	355-0715	355-0815	355-0915	**41.25**	**37.13**
1.5 x 4 x 100	355-0118	355-0218	355-0418	355-0518	355-0618	355-0718	355-0818	355-0918	**31.25**	**28.13**
1.5 x 6 x 100	355-0119	355-0219	355-0419	355-0519	355-0619	355-0719	355-0819	355-0919	**47.30**	**42.57**
1.5 x 10 x 100	355-0120	355-0220	355-0420	355-0520	355-0620	355-0720	355-0820	355-0920	**62.45**	**56.21**
2 x 4 x 100	355-0123	355-0223	355-0423	355-0523	355-0623	355-0723	355-0823	355-0923	**41.25**	**37.13**
2 x 6 x 100	355-0124	355-0224	355-0424	355-0524	355-0624	355-0724	355-0824	355-0924	**62.90**	**56.61**
2 x 10 x 100	355-0125	355-0225	355-0425	355-0525	355-0625	355-0725	355-0825	355-0925	**82.50**	**74.25**

**Quantity discount for orders of one item number only; not assorted.*

[a]See Stone & Holder Sets; next page

NEW SuperStone

- Non-clogging—beautiful polishing results on all metals
- Available in any dimensions in flat/round profiles
- Incredible strength and flexibility
- Color coded—easy to identify
- Available in grits 120 to 1200
- Improved heat resistance
- Great cutting power
- Very long life

ROUND Stones

Dimensions (mm)	Emerald 120 Grit Item#	Gold 180 Grit Item#	Lt. Brown 300 Grit Item#	Orange 400 Grit Item#	Gray 600 Grit Item#	Blue 800 Grit Item#	White 1000 Grit Item#	Red 1200 Grit Item#	EACH Prices* 1-4	5+
2.35 x 50mm ○	355-0131	355-0231	355-0431	355-0531	355-0631	355-0731	355-0831	355-0931	**$18.50**	**$16.65**
2.35 x 100mm ○	355-0132	355-0232	355-0432	355-0532	355-0632	355-0732	355-0832	355-0932	**39.00**	**35.10**
3 x 50mm ○	355-0134	355-0234[b]	355-0434[b]	355-0534	355-0634[b]	355-0734[b]	355-0834	355-0934[b]	**20.45**	**18.41**
3 x 100mm ○	355-0135	355-0235	355-0435	355-0535	355-0635	355-0735	355-0835	355-0935	**39.50**	**35.55**
3.175 x 50mm ○	355-0137	355-0237	355-0437	355-0537	355-0637	355-0737	355-0837	355-0937	**23.50**	**21.15**
3.175 x 100mm ○	355-0138	355-0238	355-0438	355-0538	355-0638	355-0738	355-0838	355-0938	**40.00**	**36.00**

SQUARE Stones

Dimensions (mm)	Emerald 120 Grit Item#	Gold 180 Grit Item#	Lt. Brown 300 Grit Item#	Orange 400 Grit Item#	Gray 600 Grit Item#	Blue 800 Grit Item#	White 1000 Grit Item#	Red 1200 Grit Item#	EACH Prices* 1-4	5+
0.5 x 0.5 x 50mm ▫	355-0141	355-0241[c]	355-0441	355-0541[c]	355-0641	355-0741[c]	355-0841	355-0941[c]	**$7.00**	**$6.30**
0.9 x 0.9 x 50mm ▫	355-0143	355-0243[d]	355-0443	355-0543[d]	355-0643	355-0743[d]	355-0843	355-0943[d]	**7.00**	**6.30**

PRECUT Stones – For Ultrasonic Handpieces

Dimensions (mm)	Emerald 120 Grit Item#	Gold 180 Grit Item#	Lt. Brown 300 Grit Item#	Orange 400 Grit Item#	Gray 600 Grit Item#	Blue 800 Grit Item#	White 1000 Grit Item#	Red 1200 Grit Item#	EACH Prices* 1-4	5+
0.8 x 4 x 40 ▭	355-0160	355-0260	355-0460	355-0560	355-0660	355-0760	355-0860	355-0960	**$9.95**	**$8.96**
0.8 x 6 x 40 ▭	355-0161	355-0261	355-0461	355-0561	355-0661	355-0761	355-0861	355-0961	**16.65**	**14.99**
1 x 4 x 40 ▭	355-0165	355-0265	355-0465	355-0565	355-0665	355-0765	355-0865	355-0965	**9.95**	**8.96**
1 x 6 x 40 ▭	355-0166	355-0266	355-0466	355-0566	355-0666	355-0766	355-0866	355-0966	**16.10**	**14.49**

**Quantity discount for orders of one item number only; not assorted.*

[b–d]See Stone & Holder Sets below

STONE & HOLDER Sets

Set	Contents	Item#	Each
a. Flat set	10 stones + 2 holders: 1 x 4 x 100 (120, 180, 300, 800, 1200 grit) 1 x 6 x 100 (300, 400, 600, 800,1000 grit)	355-1100	$199.00
b. Round set	5 stones + holder: 3 x 50mm (180, 300, 600, 800, 1200 grit)	355-1103	89.00
c. Square set, .5mm	4 stones + holder: 0.5 x 0.5 x 50mm (180, 400, 800, 1200 grit)	355-1105	37.00
d. Square set, .9mm	4 stones + holder: 0.9 x 0.9 x 50mm (180, 400, 800, 1200 grit)	355-1109	37.00

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A-F SUPER Ceramic Diamond Stones

Black (200 Grit) shown

SUPER Ceramic Diamond (SCD) Stones combine ceramic fibers with multiple layers of evenly distributed diamond particles to ensure continuous cutting action. They're perfect for finishing hardened steel and carbide tools. SCD Stones don't load like plated diamond files, are more efficient than diamond compounds, and are easily shaped. SCD Stones will cut and polish flat to a surface, allowing fast and accurate polishing in open areas. SCD Stones are perfect for polishing ribs, hard-to-reach slots and sidewalls, and milled or EDM flat surfaces. Their strong, durable ceramic fiber construction makes them ideal for use in ultrasonic polishers and mechanical profilers or by hand. Available in flat and round shapes in four color-coded grits.

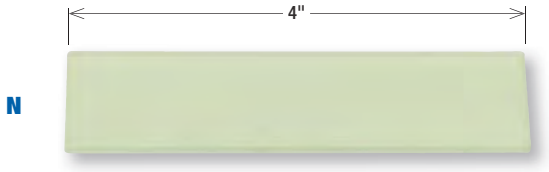
	Shape	Size (mm)	Black 200 Grit Item#	Gray 400 Grit Item#	Green 600 Grit Item#	Aqua 800 Grit Item#	EACH Prices* 1-4	5+
A.	Flat	1 x 2 x 100	**351-0797**	**351-0798**	**351-0799**	**351-0815**	**$16.50**	**$14.85**
B.		1 x 4 x 100	**351-0800**	**351-0801**	**351-0802**	**351-0816**	**30.00**	**27.00**
C.		1 x 6 x 100	**351-0803**	**351-0804**	**351-0805**	**351-0817**	**45.00**	**40.50**
D.		1 x 10 x 100	**351-0806**	**351-0807**	**351-0808**	**351-0818**	**59.00**	**53.10**
E.	Round	3 x 50	**351-0809**	**351-0810**	**351-0811**	**351-0819**	**40.00**	**36.00**
F.		3 x 100	**351-0812**	**351-0813**	**351-0814**	**351-0820**	**88.00**	**79.20**

***** *Quantity discount for orders of one item number only; not assorted.*

G-M Ceramic Stone Holders – For offhand work

For handheld work with ceramic stones. Available in 1, 2, 4, 6 and 10mm flat sizes, 3mm round or 0.5mm and 0.9mm square sizes. Measures approximately 5¾" long.

Description	Item#	Each
Flat Holder, 1mm	**351-0291**	**$7.90**
G. Flat Holder, 2mm	**351-0292**	**7.90**
H. Flat Holder, 4mm	**351-0270**	**7.90**
I. Flat Holder, 6mm	**351-0271**	**7.90**
J. Flat Holder, 10mm	**351-0272**	**7.90**
K. Round Holder, 3mm	**403-0011**	**12.75**
L. Square Holder, 0.5mm	**351-0345**	**12.75**
M. Square Holder, 0.9mm	**351-0350**	**12.75**



N. SUPER Dresser

Used to dress NSS and SUPER Ceramic Diamond Stones, as well as Cristone stones. Measures ⅛" x 1" x 4" (3 x 25 x 100mm).

Description	Item#	Each
SUPER Dresser	**351-0300**	**$17.75**

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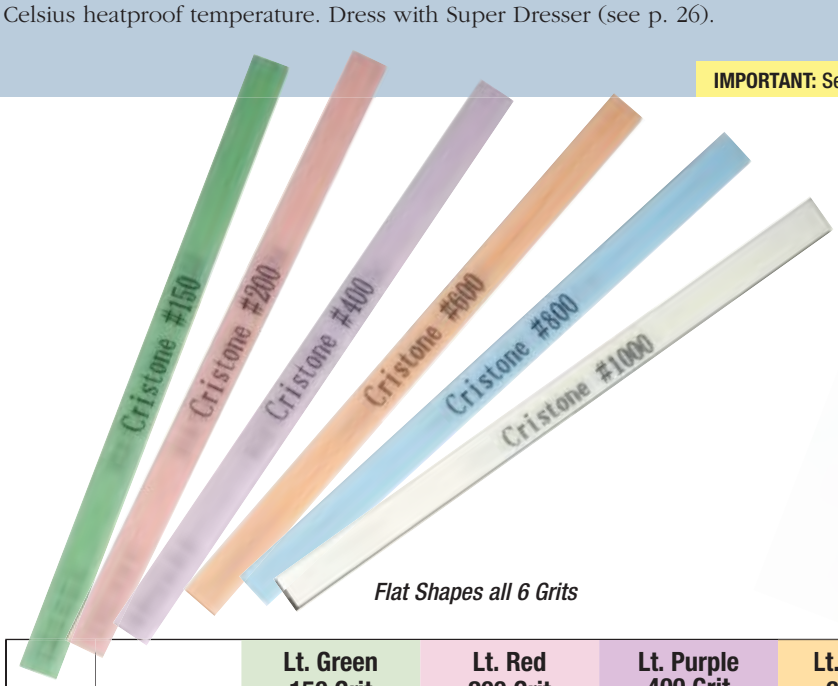
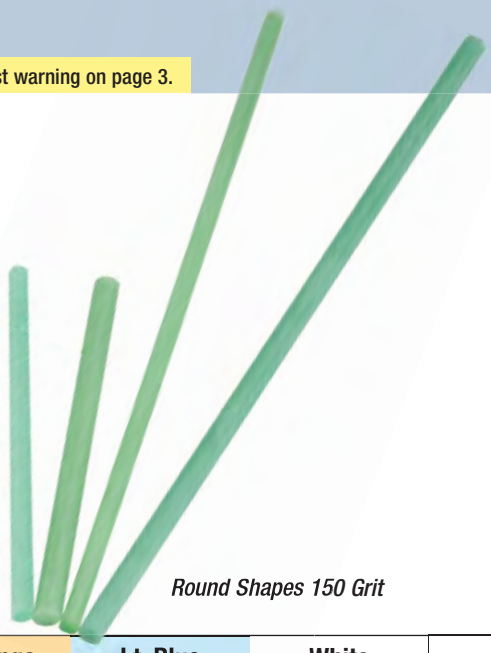
CRISTONE Ceramic Stones

Cristone ceramic stones are made with a unique crystal fiber and work best for fine polishing. The crystal fibers are round in shape and uniform in direction, thus allowing for an even and uniform surface finish free from deep scratches. Performs great on hardened and heat treated metals due to its strong fiber and resin bond. Use by hand or with any Ultramax Ultrasonic Polisher for powered finishing. Has 180 Celsius heatproof temperature. Dress with Super Dresser (see p. 26).

IMPORTANT: See dust warning on page 3.



Flat Shapes all 6 Grits



Round Shapes 150 Grit

Shape	Size (mm)	Lt. Green 150 Grit Item#	Lt. Red 200 Grit Item#	Lt. Purple 400 Grit Item#	Lt. Orange 600 Grit Item#	Lt. Blue 800 Grit Item#	White 1000 Grit Item#	Each
Flat	1 x 2 x 100	355-1301	355-1302	355-1303	355-1304	355-1305	355-1306	**$11.00**
	1 x 4 x 100	355-1311	355-1312	355-1313	355-1314	355-1315	355-1316	**18.00**
	1 x 6 x 100	355-1321	355-1322	355-1323	355-1324	355-1325	355-1326	**28.00**
	1 x 10 x 100	355-1331	355-1332	355-1333	355-1334	355-1335	355-1336	**36.00**
Round	2.35 x 50	355-1341	355-1342	355-1343	355-1344	355-1345	355-1346	**18.50**
	2.35 x 100	355-1351	355-1352	355-1353	355-1354	355-1355	355-1356	**36.00**
	3 x 50	355-1361	355-1362	355-1363	355-1364	355-1365	355-1366	**18.50**
	3 x 100	355-1371	355-1372	355-1373	355-1374	355-1375	355-1376	**36.00**

See the Multi-Function ULTRAMAX MF on page 463. Our most versatile polishing system!

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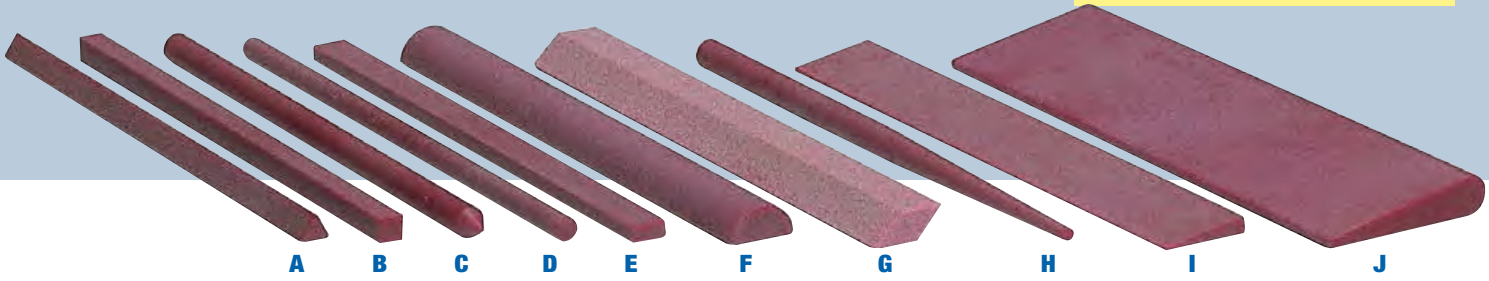
DEGUSSIT® Ruby® Stones & Files For Use on Hardened Steel & Carbide

Gesswein Ruby Stones and Files are made from pure, sintered crystals of synthetic ruby. No bonding material is used, so these stones and files are extremely hard and resistant to changes in shape. This is particularly important for quality precision grinding and finishing. In addition, since Gesswein Ruby Stones and Files feature outstanding resistance to wear, they are more economical to use than other comparable tools. Use dry or with Gesswein Stoning Oil to grind, touch up or debur steel and carbide parts. Also recommended for use on materials such as glass, quartz and porcelain. Made in Germany.

IMPORTANT: See dust warning on page 3.



A-J DEGUSSIT® Ruby® Stones

For general-purpose work. Available in coarse, medium and fine grits.

Shape	L x W x H* (mm)	Coarse Item#	Coarse Each	Medium Item#	Medium Each	Fine Item#	Fine Each
A. Triangular	100 x 4	–	–	350-2002	$58.70	350-2003	$62.25
	100 x 6	350-2011	$67.10	350-2012	67.10	350-2013	79.00
	100 x 8	350-2021	79.00	350-2022	89.00	350-2023	102.60
	100 x 10	–	–	350-2032	89.60	350-2033	116.75
B. Square	100 x 4	–	–	350-2102	73.00	350-2103	80.15
	100 x 6	350-2111	63.30	350-2112	69.35	350-2113	84.75
	100 x 8	350-2121	78.00	350-2122	89.25	350-2123	89.60
	100 x 10	350-2131	89.60	350-2132	100.50	350-2133	103.25
	120 x 13	–	–	350-2142	118.00	350-2143	129.10
C. Round, Pointed	100 x 5	–	–	–	–	350-2613	41.55
D. Round	100 x 4	–	–	350-2702	68.75	350-2703	68.75
	100 x 6	350-2711	69.95	350-2712	70.00	350-2713	76.00
	100 x 8	350-2721	82.00	350-2722	83.00	350-2723	84.90
	100 x 10	350-2731	84.00	350-2732	89.00	350-2733	94.30
E. Flat	100 x 6 x 3	–	–	350-2202	54.95	350-2203	56.00
	100 x 8 x 6	350-2211	69.45	350-2212	69.45	350-2213	79.15
F. Half-Round	100 x 10	350-2311	72.00	350-2312	84.25	–	–
G. Rhomboid	100 x 13 x 5	350-2401	91.00	–	–	–	–
H. Round, One Tapered End	100 x 5 x 2	350-2551	62.00	–	–	350-2553	62.00
I. Knife Edge	100 x 15 x 3/0.5	–	–	350-2912	130.25	350-2913	133.00
J. Tapered, Rounded Edge	100 x 30 x 7/2	–	–	350-1052	175.00	–	–

**All dimensions have tolerance of ±0.1mm.*

K. DEGUSSIT® Ruby® Stone Set #700

This handy set contains one each of the Ruby Stones indicated. Save over $115.00 off the combined price of buying the stones individually.

Shape	L x W x H* (mm)	Grit
Round	100 x 6	Medium
Triangular	100 x 10	Medium
Flat	100 x 8 x 6	Fine
Half-Round	100 x 10	Coarse
Square	100 x 10	Medium

Description	Item#	Each
K. Ruby Stone Set #700	350-3000	$291.00

**All dimensions have tolerance of ±0.1mm.*

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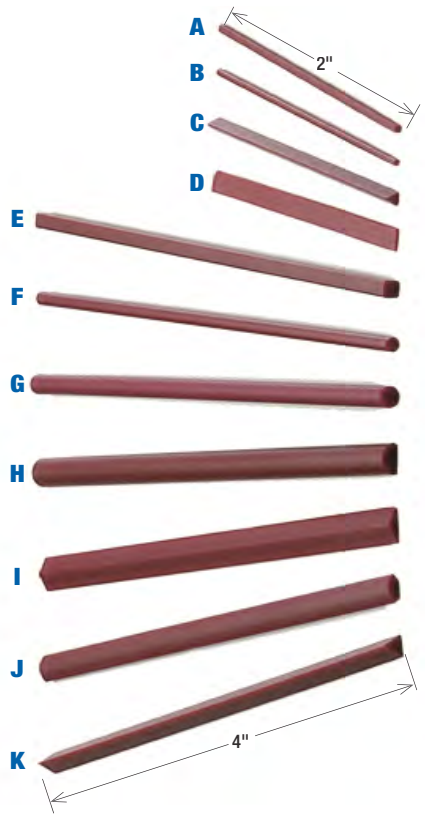
A-K DEGUSSIT® Ruby® Midget Files

Ruby Midget Files are invaluable for high detail and ultra-precision work. They may be broken off and cemented onto a holder or used with a pin vise (see p. 550). Available in fine grit. Made in Germany.

Shape	L x W x H* (mm)	Item#	
A. Square	50 x 1	350-4000	$7.85
B. Round	50 x 1	350-4010	
C. Triangular	50 x 2	350-4020	
D. Flat	50 x 3 x 0.3	350-4060	
E. Square	100 x 2	350-4030	$19.50
F. Round	100 x 2	350-4040	19.50
G. Round	100 x 3	350-4050	19.50
H. Half-Round	100 x 4 x 2	350-4070	29.50
I. Barrette	100 x 5 x 1.5	350-4090	31.95
J. Crossing	100 x 4 x 1.5	350-4110	29.50
K. Triangular	100 x 3	350-4130	29.50

**All dimensions have tolerance of ±0.1mm*



A-L DEGUSSIT® Ruby® Midget File Set #420

This money-saving kit contains all 11 of our Ruby Midget Files (see above) plus one double-ended holder with two collets. (Holder is available only with this kit and not separately.) Screw machine operators will find this set particularly helpful for dressing cutters without removing them from the machine. Made in Germany.

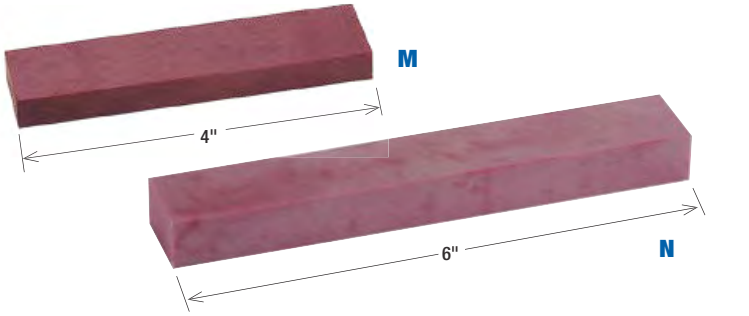
	Description	Item#
A-L	Ruby Set #420	350-4200

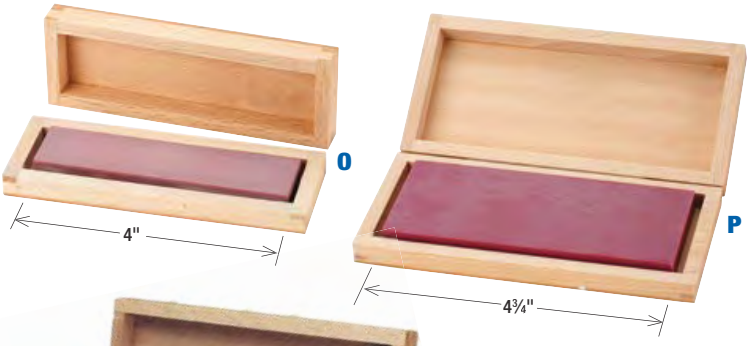
M-P DEGUSSIT® Ruby® Bench Stones

Ideal for sharpening and for flattening steel and carbide parts as well as sharpening tools and gravers—even carbide. The pure sintered crystals of synthetic ruby have an outstanding resistance to wear, which makes them more economical than other stones. They will not groove, even after years of use. May be used dry or with Gesswein Stoning Oil (see p. 21). Two sizes of stones indicated with an asterisk are finished on both sides. The others are finished on one side only and come neatly mounted in wooden boxes.

Dimensions (inches)	Medium Item#	Medium Each	Fine Item#	Fine Each
M. 4 x 1 x 3/8*	350-1002	$108.50	350-1003	$126.00
N. 6 x 1 x 5/8*	350-1012	175.00	350-1013	175.00
O. 4 x 1 x 3/8**	350-1102	103.00	350-1103	124.00
P. 4 3/4 x 2 x 3/8**	350-1112	265.00	350-1113	265.00

**Finished on both sides*
***Finished on one side & mounted in wooden box*





Q. DEGUSSIT® Ruby® Combination Bench Stone

Finished on two sides and neatly packaged in a wooden box. One side of the stone is medium to cut fast while shaping tools and the other is fine which will impart a brilliant finish. Ideal for sharpening knives and gravers made of high speed steel or carbide. Measures 4¾"L x 2"W x 3/8"H. Made in Germany.

Description	Item#	Each
Ruby Combination Bench Stone	350-1114	$340.00

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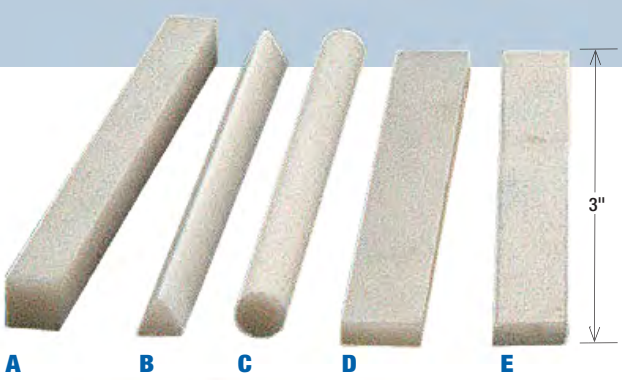
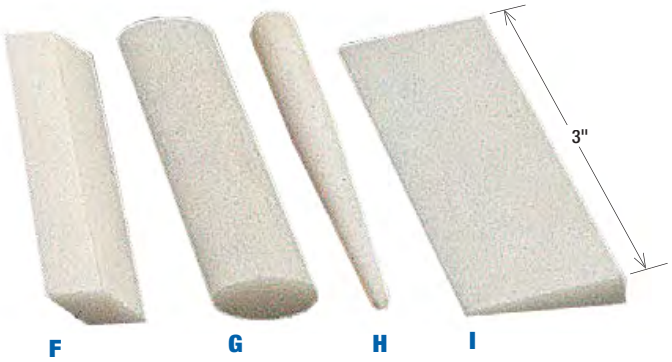
NORTON Arkansas Stones

Natural Arkansas Stones have gained a reputation over the years as the finest all-purpose stones for deburring and polishing operations as well as for sharpening precision tools. Hard Arkansas Stones are dense and fine-grained for final honing where the sharpest precision edges possible are needed. Soft Arkansas, with its less dense and more open structure, is ideal for imparting a fine, smooth surface. Arkansas Stones are not oil-filled and should be used with Gesswein Stoning Oil (see p. 21). Made in USA.

IMPORTANT: See dust warning on page 3.





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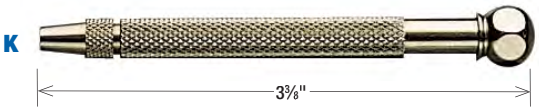

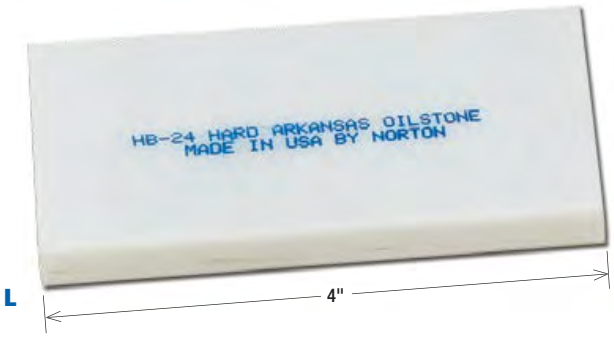

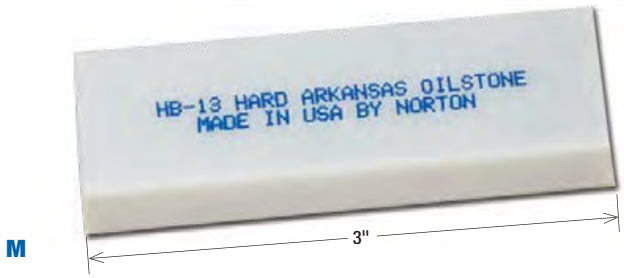

A-I Norton® Hard Arkansas Files – Ultra-Fine Grit

Dense, translucent stones in various shades of gray. All have precision edges.

	Shape	Dimensions	Style	Item#	EACH Prices 1-9	10+
A.	Square	3" x ¼"	HF13	**370-0130**	**$24.25**	**$16.25**
		3" x ⅜"	HF33	**370-0330**	**22.50**	**15.08**
		3" x ½"	HF43	**370-0430**	**32.60**	**21.84**
B.	Triangular	3" x ¼"	HF113	**370-1130**	**22.85**	**15.31**
		3" x ⅜"	HF133	**370-1330**	**23.45**	**15.71**
		3" x ½"	HF143	**370-1430**	**29.85**	**20.00**
C.	Round	3" x ¼"	HF813	**370-8130**	**27.15**	**18.19**
D.	Flat	3" x ⅜" x ⅛"	HF823	**370-8230**	**34.00**	**22.78**
E.	Bevel	3" x ⅜" x ⅛"	HF833	**370-8330**	**24.35**	**16.31**
F.	Diamond	3" x ½" x 3⁄16"	HF843	**370-8430**	**42.35**	**28.37**
G.	Oval	3" x ½" x 3⁄16"	HF853	**370-8530**	**34.50**	**23.12**
H.	Point	3" x ¼" base	HF863	**370-8630**	**42.50**	**28.48**
I.	Knife Blade	3" x ¾" x ⅛"	HF873	**370-8730**	**37.95**	**25.43**

J. Norton® Soft Arkansas Engraver's Point AT11

Extra-Fine Grit

Small size for stoning and cleaning in recesses, corners and other tight areas. Used in Engraver's Chuck XT-1.

Shape	Dimensions	Style	Item#	EACH Prices 1-19	20+
Point	1" x ⅛" dia.	AT11	**372-5110**	**$9.25**	**$6.20**

K. Engraver's Chuck XT-1

For holding either India or Arkansas Engraver's Points. Made of knurled, nickel-plated steel. Rounded end fits comfortably in palm of hand. Measures 3⅜" overall length.

Dimensions	Style	Item#	EACH Prices 1-9	10+
3⅜" x ¼" dia.	XT-1	**372-6000**	**$31.00**	**$20.77**

L. Norton® Hard Arkansas Bench Stones – Ultra-Fine Grit

Extremely hard and fine unmounted stones for the final finish on gravers and cutting tools. Can be used on both sides.

	Dimensions	Style	Item#	EACH Prices 1-4	5+
L.	4" x 2" x ⅜"	HB24	**371-1045**	**$101.60**	**$68.07**
	4" x 2" x ¾"	HB4	**371-1040**	**144.60**	**96.88**

M. Norton® Arkansas Penknife Stones

Can be used on both sides. Hard are ultra-fine grit, soft is extra-fine grit.

	Type	Dimensions	Style	Item#	EACH Prices 1-9	10+
M.	Hard	3" x 1" x ⅜"	HB13	**371-1130**	**$41.30**	**$27.67**
	Hard	4" x 1" x ⅜"	HB14	**371-1140**	**42.85**	**28.71**
	Soft	4" x 1" x ⅜"	SB14	**371-4140**	**13.40**	**8.98**

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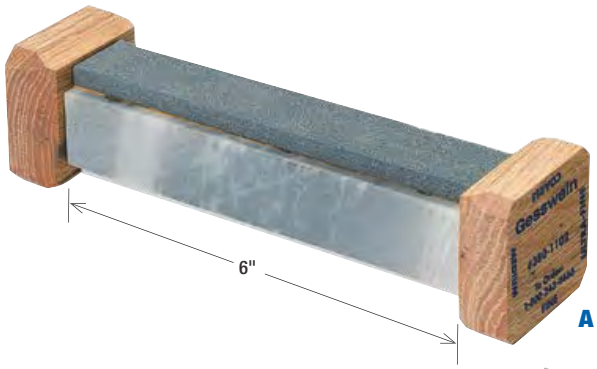
A. Quad-Hone Stone

Four different stones mounted on a rectangular block for a wide range of sharpening chores from rough shaping to producing a sharp final edge. Quad-Hone includes one each of coarse, medium, fine and ultra-fine Arkansas stones. Each stone measures approximately 6"L x 1"W x ¼"H. Use with Gesswein Stoning Oil (see p. 21). Made in USA.

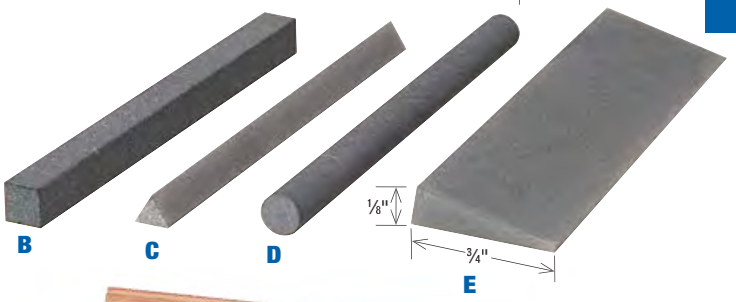
Description	Item#	Each
Quad-Hone Stone	380-1102	$39.50



B-E Hard Black Arkansas Files – Fine Grit

For the machinist, woodworker or gunsmith who requires a smooth polished edge. These dense black stones are more aggressive than other Hard Arkansas Stones. The various shapes and sizes are ideal for deburring and polishing intricate tools and metal parts. All approximately 3" in length. Made in USA.

	Shape	Size	Item#	EACH Prices 1-9	10+
B. Square	■	¼"	375-0131	$12.95	$11.66
		⅜"	375-0331	14.35	12.92
		½"	375-0431	18.50	16.65
C. Triangular	▲	¼"	375-1131	13.50	12.15
		⅜"	375-1331	14.50	13.05
		½"	375-1431	18.50	16.65
D. Round	●	¼"	375-8131	16.50	14.85
E. Knife Edge	▬	¾" x ⅛" (tapers to a knife edge)	375-8731	21.00	18.90



F. Hard Black Arkansas Bench Stone – Fine Grit

For precision sharpening or for finishing a very sharp edge. Measures 6"L x 2"W x ½""H. Packaged in an attractive cedar box. Made in USA.

Description	Item#	Each
Fine Grit	374-2000	$65.00

G. Soft Arkansas Bench Stone – Medium Grit

A natural medium-grit bench stone. Recommended for relatively fast cutting. Excellent for shaping gravers, knives and precision tools prior to final finish with our Ruby or Hard Arkansas Stones. Use with Stoning Oil (see p. 21). Packaged in an attractive cedar box. Measures 6"L x 2"W x 1"H. Made in USA.

Description	Item#	Each
Medium Grit	374-1000	$27.00

H, I Hard Arkansas Stones – Very Fine Grit

Genuine Hard Arkansas Stones, white to light gray. Each is glued into a hardwood storage box. Top surface of stone is finished and usable.

	Dimensions	Item#	Each
H.	100 x 40mm (4" x 1⅝")	374-0900	$42.95
I.	150 x 50mm (6" x 2")	374-0910	109.00

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NORTON India® Stones

These sharpening stones are made of synthetic aluminum oxide abrasive graded to a consistent particle size, blended with select bonding agents, molded to shape and finished to exacting surface configurations. Preferred for imparting durable, smooth cutting edges and finishing to close tolerances.

Orange-brown in color. Prefilled with oil to make cutting easier and more effective, retard loading and eliminate the need for presoaking prior to first use. Note: Although prefilling minimizes the amount of oil needed, it does not eliminate the need for oil on the stone surface.

Apply Gesswein Stoning and Lubricating Oil (see p. 21) on the stone's sharpening surface prior to each use. This will prevent the pores of the stone from filling with material removed from the object being stoned.

India Stones are available in coarse, medium and fine grits. Use coarse grit for restoring badly worn cutting edges and for all sharpening not requiring a keen edge; use medium grit for producing an average edge on a broad range of tools, such as carving tools, milling cutters, lathe tools and die chasers; and use fine grit for producing sharper-than-average edges on gouges, reamers, taps and twist drills. Made in Mexico.

IMPORTANT: See dust warning on page 3.

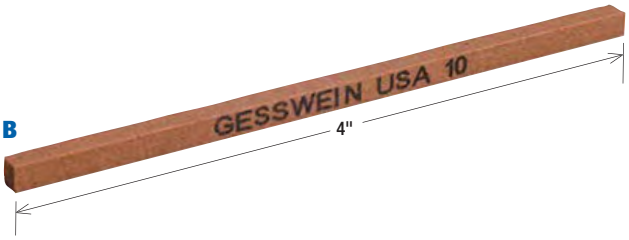
A

A. India® Abrasive Files

Hold their shape while producing a fine, uniform finish. Use to debur, chamfer, radius and fit delicate parts. Choose from square, triangular, round and half-round to match different surface contours. Triangular files are excellent for reaching tight corners without disturbing other surfaces. All stones measure 4" (except style 76 which measures 6").

Shape		Style	Size	Coarse (100 grit) Item#	Medium (240 grit) Item#	Fine (320 grit) Item#	EACH Prices 1-19	20+
Square	■	14	1/4" x 4"	**360-0141**	**360-0142**	**360-0143**	**$5.14**	**$3.44**
		34	3/8" x 4"	**360-0341**	**360-0342**	**360-0343**	**6.50**	**4.36**
		44	1/2" x 4"	**360-0441**	**360-0442**	**360-0443**	**6.50**	**4.36**
		76	1" x 6"	**360-0761**	**360-0762**	**360-0763**	**14.90**	**9.98**
Triangular	▲	114	1/4" x 4"	**360-1141**	**360-1142**	**360-1143**	**7.15**	**4.79**
		134	3/8" x 4"	**360-1341**	**360-1342**	**360-1343**	**7.50**	**5.03**
		144	1/2" x 4"	**360-1441**	**360-1442**	**360-1443**	**7.50**	**5.03**
Round	●	214	1/4" x 4"	**360-2141**	**360-2142**	**360-2143**	**13.50**	**9.05**
		234	3/8" x 4"	**360-2341**	**360-2342**	**360-2343**	**13.50**	**9.05**
		244	1/2" x 4"	**360-2441**	**360-2442**	**360-2443**	**14.75**	**9.88**
Half-Round	◗	314	1/4" x 4"	–	**360-3142**	**360-3143**	**10.95**	**7.34**
		334	3/8" x 4"	–	**360-3342**	**360-3343**	**11.90**	**7.97**
		344	1/2" x 4"	**360-3441**	**360-3442**	**360-3443**	**11.90**	**7.97**

(Stones are made to an approximate ±1/8" length tolerance.)



B

B. Medium India® Pencil Stone

Style	Grit	Size	Item#	12pc	EACH Prices 12-60	72-132	144+
10	240	4" x 5/32" x 5/32"	**415-0100**		**$2.00**	**$1.80**	**$1.61**

12pc *Twelve-piece minimum; please order in multiples of twelve.*

C

C. Pencil Stone Holder

Push-button holder for easy loading. Holds 5/32" square stones. Measures 5¼" long. Made in Italy.

	Description	Item#	EACH Prices 1-2	3-11	12+
C.	Stone Holder	**403-0050**	**$9.95**	**$9.35**	**$8.46**
	Replacement Collet	403-0085	3.25	-	-

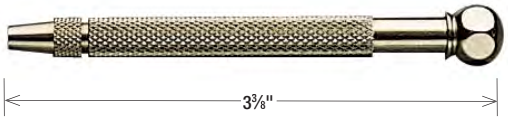
D

Shown actual size

D. Norton® India® Engraver's Point

For stoning and cleaning tight corners and recesses of dies where close tolerances and accuracy are important. Measures 1"L x 1/8" dia. and tapers to a point. Fine (320 grit). Use in Engraver's Chuck XT-1 (below).

Dimensions	Style	Item#	EACH Prices 1-49	50+
1" x 1/8" dia.	FT-11	**362-5113**	**$8.80**	**$6.16**



E

E. Engraver's Chuck XT-1

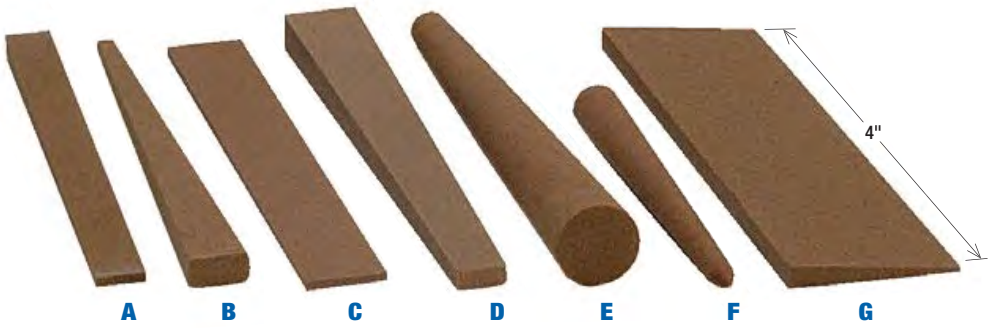
For holding either India or Arkansas Engraver's Points. Made of knurled, nickel-plated steel. Rounded end fits comfortably in palm of hand. Measures 3⅜" overall length.

Dimensions	Style	Item#	EACH Prices 1-9	10+
3⅜" x 1/4" dia.	XT-1	**372-6000**	**$31.00**	**$20.77**

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

A-G Norton® India® Silversmith Stones

A variety of precision-shaped tapered stones used by silversmiths and mechanics for touching up instruments, lapping for close tolerances and cleaning tools and dies. Use round-edged stones to speed up the sharpening of curved tool steels and carbide tools. Use sharp-angled stones to get into hard-to-reach corners. Available only in aluminum oxide in coarse, medium and fine grits.

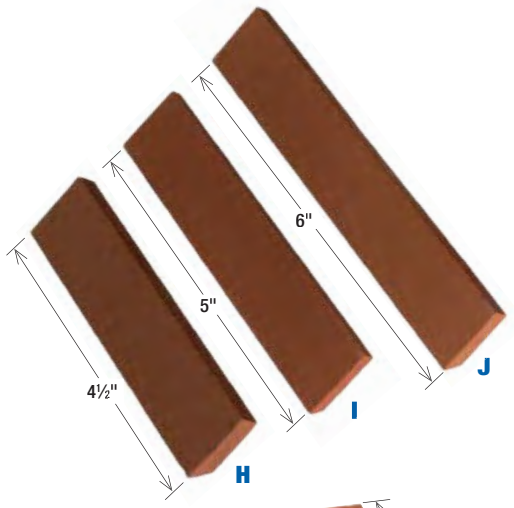


	Style	L x W x H	Tapered to W x H	Coarse (100 grit) Item#	Medium (240 grit) Item#	Fine (320 grit) Item#	EACH Prices 1-19	EACH Prices 20+*
A.	F-414	4" x 5/16" x 3/16"	5/16" x 1/16"	–	360-4142	360-4143	$17.85	$11.96
B.	F-424	4" x 3/8" x 3/16"	1/8" x 1/16"	–	360-4242	–	17.85	11.96
C.	F-444	4" x 1/2" x 1/16"	–	360-4441	360-4442	360-4443	18.85	12.63
D.	F-474	4v x 1/2" x 1/4"	5/16" x 1/8"	–	360-4742	–	17.85	11.96
E.	F-644	4" x 1/2" x 1/4"	–	–	360-6442	360-6443	17.85	11.96
F.	F-723	3" x 5/16" base	–	360-7231	360-7232	360-7233	19.85	13.30
G.	F-724	4" x 1" x 1/8" base	–	360-7241	360-7242	360-7243	15.25	10.22

**Quantity discount for orders of one item number only; not assorted.*

H-J Norton® India® Reamer Stones

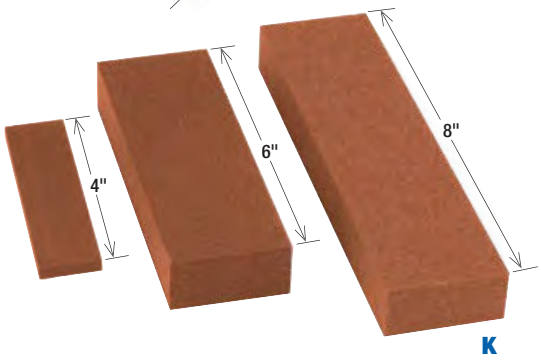
Durable fast-cutting stones designed for imparting a professional edge on reamers, taps and rough rounders on shoe machine tools. Available in aluminum oxide in medium and fine grits.



	Style	L x W x H	Medium Grit Item#	EACH Prices 1-19	EACH Prices 20+	Fine Grit Item#	EACH Prices 1-19	EACH Prices 20+
H.	T124	4½" x 1" x 5/16"	360-1242	$13.50	$9.05	–	–	–
I.	T125	5" x 1" x 3/16"	360-1252	13.50	9.05	360-1253	$13.50	$9.05
J.	T126	6" x 1" x 1/4"	360-1262	18.25	12.23	–	–	–

K. Norton® India® Bench Stones

Manufactured with the same aluminum oxide as our other India stones, Bench Stones are most popular for producing a strong, keen, long-lasting edge on high-quality tools. The frequent choice of artisans, craftsmen and mechanics. Use India Bench Stones to quickly restore the cutting edge on all straight edge tools, including chisels, plane blades, wood lathe cutters, draw knives, spoke shaves, precision tools and delicate instruments. Prefilled with oil to make cutting easier and more effective, eliminating the need to presoak prior to first use. Oil still should be supplied to the surface before each use.

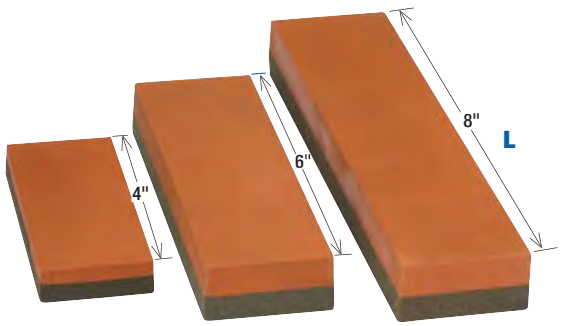


Grit	L x W x H	Style	Item#	EACH Prices* 1-9	EACH Prices* 10+
Coarse	4" x 1" x 1/4"	14	361-0141	$9.60	$6.43
	4" x 1" x 1/2"	24	361-0241	13.50	9.05
	6" x 2" x 1"	6	361-0061	29.70	19.90
	8" x 2" x 1"	8	361-0081	35.60	23.85
Medium	4" x 1" x 1/4"	14	361-0142	9.60	6.43
	4" x 1" x 1/2"	24	361-0242	13.50	9.05
	6" x 2" x 1"	6	361-0062	31.35	21.00
	8" x 2" x 1"	8	361-0082	35.60	23.85
Fine	4" x 1" x 1/4"	14	361-0143	9.60	6.43
	4" x 1" x 1/2"	24	361-0243	13.50	9.05
	6" x 2" x 1"	6	361-0063	29.70	19.90
	8" x 2" x 1"	8	361-0083	35.60	23.85

**Please ask for quotes on larger quantities.*

L. Norton® India® Combination Bench Stones

Fast cutting, man-made stones of tough aluminum oxide abrasive. Each Combination India Bench Stone has fine and coarse grit surfaces (one grit to each side), providing complete, economical sharpening.



Style	L x W x H	Item#	EACH Prices 1-9	EACH Prices 10+
IB-134	4" x 1 3/4" x 5/8"	361-1344	$19.85	$13.30
IB-6	6" x 2" x 1"	361-0064	29.70	19.90
IB-8	8" x 2" x 1"	361-0084	37.50	25.13

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

A

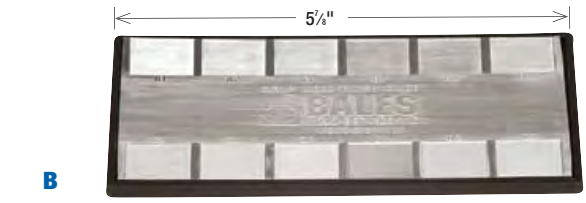
A. Mold Repair Kit

Can be carried directly to the mold for instant repair in the press. Helps you quickly put your molds back into production. Available with or without Dremel #3000 (850-8027). See page 458 for details.

Includes:

- Kit includes Over one dozen Diemaker, EDM, Moldmaker and RA finishing stones.
- Stoning and Lubricating Oil
- ME Brushes
- Blue and Red Mounted Stones and Points
- Stone Holders for Gesswein Finishing Stones
- Carbide burs
- Gesswein G-Flex and GMX Abrasives
- Abrasive SiC Cut-Off Discs
- Abrasive Belt Stick
- Lapping Sticks
- Felt Bobs, Sticks and Hand Buff
- 3 grades of Gesswein Diamond Compounds (each in a 1-gram syringe)
- Simichrome Polish

	Description	Item#	Each
A.	Mold Repair Kit only	**382-1000**	**$195.00**
	Mold Repair Kit w/Dremel #3000	**382-1010**	**275.00**



B

B. Pocket-Size S.P.I.® Mold Finish Gauge

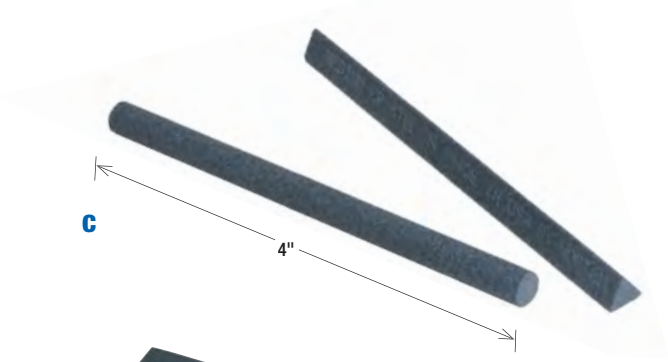
Take this handy guide anywhere. Flash chrome protectant ensures metal specimen surfaces will retain their exact finishes for years. Easy-to-read cross-reference table of S.P.I. and R.A. finishes makes for quick and accurate comparisons. Measures 5⅞"L x 3½"W.

Description	Item#	Each
Pocket-Size S.P.I. Mold Finish Gauge	**811-0225**	**$189.95**

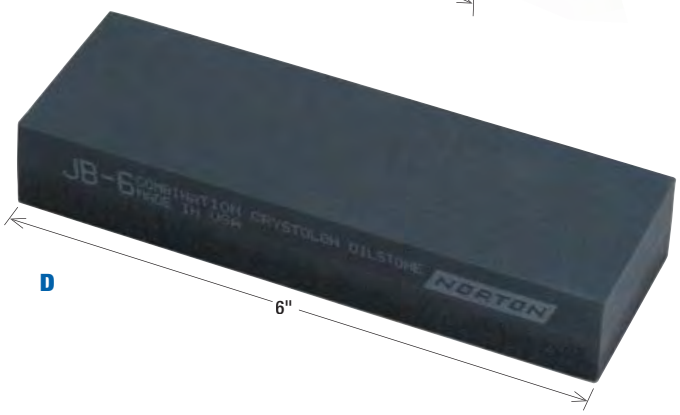
NORTON Crystolon® Stones

Crystolon Stones are made of silicon carbide electric furnace abrasive. Electric furnace stones are made by ball-milling the abrasive to the correct particle size, then batch-blending with carefully selected bonding agents to produce the precise characteristics desired in the finishing stone. The fast-cutting abrasive is harder than any natural abrasive except diamond and does an outstanding job where moderate tolerances are desired. The resulting tool edge lacks durability as compared to India. Crystolon is the choice when speed of sharpening is more important than fineness of the cutting edge.

IMPORTANT: See dust warning on page 3.



C



D

C. Norton® Crystolon® Stone Files

A fast-acting silicon carbide stone. Designed for use where moderate tolerances are acceptable. Available in round and triangular shapes in medium and fine grit. Measure 4" long.

Shape		Size	Medium Grit Style	Item#	EACH Prices 1-19	20+
Round	●	4" x ¼"	MJF-214	**376-0064**	**$13.50**	**$9.05**
		4" x ½"	MJF-244	**376-0068**	**11.35**	**7.60**
Triangular	▲	4" x ⅜"	MJF-134	**376-0030**	**8.40**	**5.63**

Shape		Size	Fine Grit Style	Item#	EACH Prices 1-19	20+
Round	●	4 x ¼"	FJF-214	**376-0065**	**$13.50**	**$9.05**
Triangular	▲	4 x ¼"	FJF-114	**376-0029**	**10.20**	**6.83**
		4 x ⅜"	FJF-134	**376-0031**	**8.15**	**5.46**
		4 x ½"	FJF-144	**376-0033**	**9.20**	**6.16**

D. Norton® Crystolon® Combo Bench Stone

Silicon carbide bench stone has two distinct cutting surfaces: one side is coarse, the other side is fine. Fast-cutting for general sharpening of cutting tools. Dark gray in color. Measures 6"L x 2"W x 1"H.

Description	Style	Item#	Each
Crystolon Combo Bench Stone	JB-6	**371-2004**	**$36.55**

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Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

A. Rub-and-Rinse Stone Cleaner

Gesswein Rub-and-Rinse Stone Cleaner is a semiliquid material that sheds tiny metal particles from hard stones to keep them at their peak efficiency. Recommended for use on hard stones such as our Ruby, India and Hard Arkansas Stones. Contains 1/2" fl. oz.

Description	Item#	Each
Rub-and-Rinse Stone Cleaner	**813-1700**	**$9.80**

A

B, C Gesswein® Stoning and Lubricating Oil

This special lubricant was developed for the mold and die finisher. It is economical and practically odorless, and it evaporates slowly. Recommended for fast cutting and for finishing operations. Helps prevent loading. Lets stones cut better and more freely so they produce a bright, smooth surface. Eliminates the need for hazardous kerosene. For use with diamond tools where lubrication is suggested. Viscosity: 38/45.

Description	Item#	Each
B. 1 Pint (wide-mouth glass container)	**800-0100**	**$13.75**
C. 1 Gallon	**800-0110**	**44.95**

B C

D. Norton® India Stone Oil

Specifically formulated for use with sharpening stones. Will not load or gum up. Meets U.S. pharmaceutical standards for mineral oil purity and can be used around food preparation operations.

Description	Item#	Each
4.5 oz.	**800-0121**	**$6.95**

D

E, F Syringe Dispensers

Plastic syringes with 18-gauge stainless steel needles for pinpoint delivery of stoning oil to the exact place you want. Plunger works smoothly and slides evenly to prevent accidental flooding and sputtering. Constructed of polyethylene and polypropylene. Available in two sizes: 5 and 10cc. Each includes tip sheath and cover. Sold in packages of six.

	Description	Item#	PKG. of 6 1-3	4+
E.	5cc Syringe	**811-2450**	**$18.95**	**$15.16**
F.	10cc Syringe	**811-2451**	**23.50**	**18.80**

E F

G. Plastic Spray-Pump Bottle

Use to dispense stoning oil, cleaning solution and more. Spray gets into hard-to-reach areas. Capacity: 4 fl. oz.

Description	Item#	EACH Prices 1-2	3+
Plastic Spray-Pump Bottle	**811-2460**	**$2.15**	**$1.94**

G

All prices subject to change without notice.

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

Gesswein® Mounted Stones & Points

We have assembled an assortment of vitrified bonded mounted abrasives for most metal working applications. From general purpose grinding to specialty deburring, for fast cutting to smooth finishing—there is a stone for most every need. All are manufactured in the USA (except for the German Busch Pink Points, see p. 51) and only the finest materials and workmanship are employed.

Color	Page	Hardness	Grit	Bond	Abrasive	Recommended Metals	Benefit
Blue	44-47, 50	Hard	120	Porce-lain	Semi-Friable Aluminum Oxide	Hardened Steels	Holds its shape extremely well
Purple	42-43	Hard-Sharp Cut	80/100/120	Vitrified	Sol-Gel Ceramic Grain + Pink Aluminum Oxide	High Nickel and Exotic Alloys	Fast cutting, cool running even on high nickel and other alloys
Light Blue	48	Medium-Sharp Cut	120	Vitrified	Sol-Gel Ceramic Grain + White Aluminum Oxide	High-Carbon, Stainless Steel, Non-Ferrous Alloys	Long lasting and cuts well
Red	36-39, 49	Medium	60/80/100	Clay	Friable Aluminum Oxide	Medium and Hardened Steels	Fast cutting and non-loading properties
Pink	40-41	Medium	80/100/120	Fused Vitrified	Pink Aluminum Oxide Alloyed with Chrome	Tool Steel and High Speed Steels	Sharp, cool cutting action for harder steels
White	52	Soft	400	Vitrified	Fine White Aluminum Oxide	Glass, Porcelain, Metal or Stone	Produces a fine finish

Note: Busch Pink omitted from chart as it is not a Gesswein stone (see p. 51).

Warning: For recommended speeds, consult the American National Standards Institute for full information on vitrified mounted wheels. Before using any abrasive product, follow all safe operating guidelines with respect to eye protection, hand protection, hearing protection and respiratory protection. Also read the Material Safety Data Sheet to be aware of any inherent hazards or cautions.

Important: Abrasive stones break down during mold and die polishing, grinding, tool sharpening, and dressing of cutting & grinding wheels. The resulting dust is classified by OSHA as inert or nuisance dust. Please consult the Material Safety Data Sheet for each stone; data provided therein pertains primarily to the dust produced during and after use. Please note that hazards may change when abrasive stones are used in conjunction with solvents, cutting fluids or other chemicals. For more complete information, consult the Material Safety Data Sheets of chemical products used with abrasive stone products.

A

A. Gesswein® Mounted Stone Sample Set – 1/8" Shank

Order our sample set of stones available on 1/8" shanks to see which type best fits your application. Set consists of B52 and W163 shapes in Red, Purple, Pink, Blue and Light Blue.

Description	Item#	Each
10-Piece Intro Mounted Stone Set	**300-0010**	**$20.25**

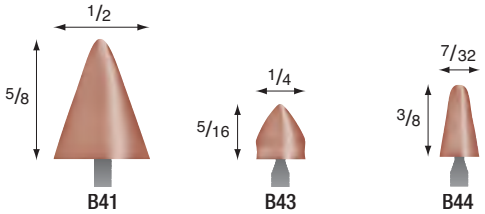
Gesswein® Red Mounted Stones

Made in the USA

Superior quality stones made of aluminum oxide bonded with porcelain-type clays, which provide the greatest strength and rigidity required for fast stock removal and longer life. The ceramic bond controls the release of the aluminum oxide abrasive grains. As each particle begins to dull, the bond discharges it, allowing new abrasive grain to surface with fresh, sharp cutting edges. Stones are securely bonded to their shanks and are guaranteed to run true.

These fast-cutting, nonloading stones are easily identified by their reddish-brown color. The grit varies between 60, 80 (medium) and 100 (fine). For fast grinding of medium and hard materials. Ideal for internal grinding of tools, dies and gauges. All have 1½" long plated steel shanks. Can be dressed with our Tru-Stone #380-1030 (see p. 51). For recommended speeds, consult the American National Standard Institute for full information on vitrified mounted wheels.

Available in plastic packages of 12 and boxes of 12, 36 or 72.

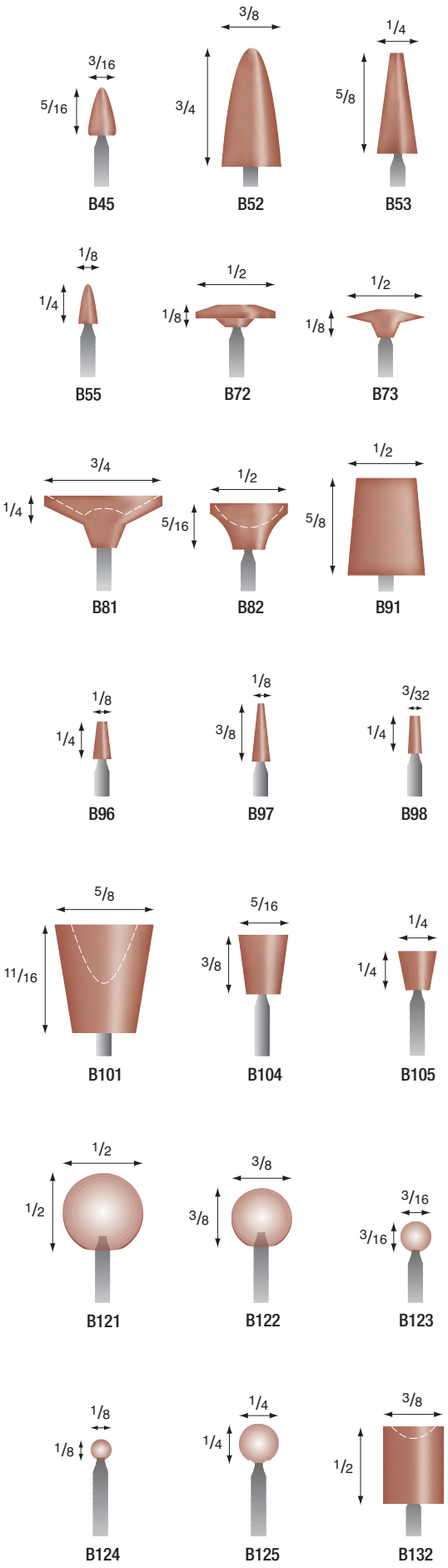


Shape dimensions shown in inches.

Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
B41	60	1/8"	Pkg. of 12	**309-0410**	**$19.25**	**$17.33**	**$16.36**	**$14.44**
		1/8"	Box of 36	**301-0410**	**46.00**	**41.40**	**39.10**	**34.50**
B43	60	1/8"	Pkg. of 12	**309-0430**	**17.00**	**15.30**	**14.45**	**12.75**
		1/8"	Box of 72	**301-0430**	**81.25**	**73.13**	**69.06**	**60.94**
B44	60	1/8"	Pkg. of 12	**309-0440**	**16.00**	**14.40**	**13.60**	**12.00**
		1/8"	Box of 72	**301-0440**	**81.25**	**73.13**	**69.06**	**60.94**
		3mm	Box of 72	**313-0440**	**81.25**	**73.13**	**69.06**	**60.94**

Gesswein® Red Mounted Stones (continued)

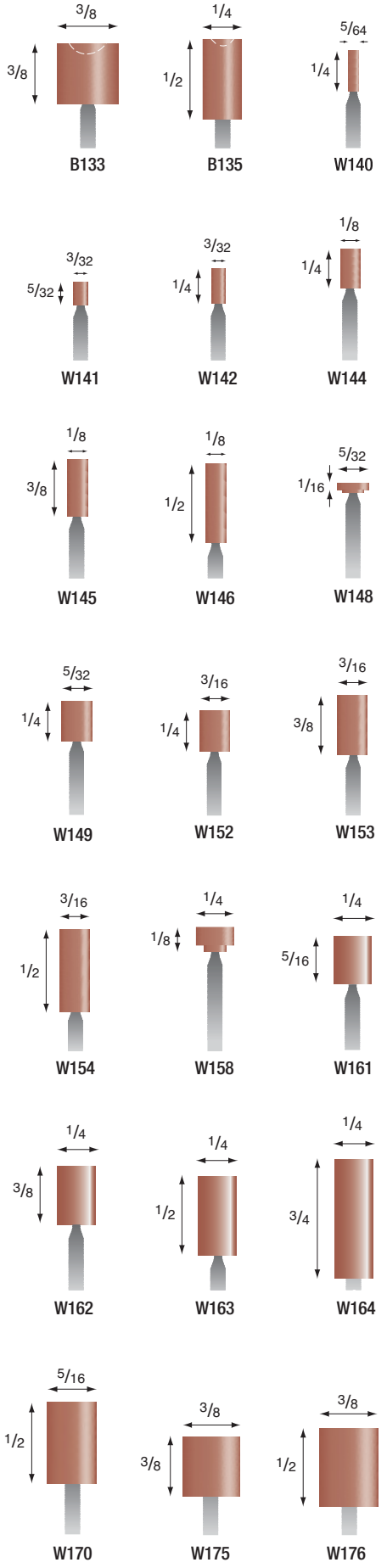
Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
B45	60	1/8"	Pkg. of 12	309-0450	$17.00	$15.30	$14.45	$12.75
		1/8"	Box of 72	301-0450	81.25	73.13	69.06	60.94
B52	60	1/8"	Pkg. of 12	309-0520	18.25	16.43	15.51	13.69
		1/8"	Box of 72	301-0520	88.75	79.88	75.44	66.56
		3mm	Box of 72	313-0520	88.75	79.88	75.44	66.56
B53	60	1/8"	Pkg. of 12	309-0530	18.25	16.43	15.51	13.69
		1/8"	Box of 72	301-0530	91.00	81.90	77.35	68.25
B55	60	1/8"	Pkg. of 12	309-0550	15.00	13.50	12.75	11.25
		1/8"	Box of 72	301-0550	69.75	62.78	59.29	52.31
B72	60	1/8"	Pkg. of 12	309-0720	16.00	14.40	13.60	12.00
		1/8"	Box of 36	301-0720	39.50	35.55	33.58	29.63
B73	60	1/8"	Pkg. of 12	309-0730	18.25	16.43	15.51	13.69
		1/8"	Box of 36	301-0730	42.00	37.80	35.70	31.50
		3mm	Box of 36	313-0730	45.00	40.50	38.25	33.75
B81	60	1/8"	Box of 12	301-0810	18.25	16.43	15.51	13.69
B82	80	1/8"	Pkg. of 12	309-0820	15.00	13.50	12.75	11.25
		1/8"	Box of 36	301-0820	35.25	31.73	29.96	26.44
B91	60	1/8"	Box of 12	301-0910	18.25	16.43	15.51	13.69
		3mm	Box of 12	313-0910	17.00	15.30	14.45	12.75
B96	60	1/8"	Pkg. of 12	309-0960	15.00	13.50	12.75	11.25
		1/8"	Box of 72	301-0960	69.50	62.55	59.08	52.13
B97	60	1/8"	Pkg. of 12	309-0970	17.00	15.30	14.45	12.75
		1/8"	Box of 72	301-0970	81.25	73.13	69.06	60.94
		3mm	Box of 72	313-0970	81.25	73.13	69.06	60.94
B98	60	1/8"	Pkg. of 12	309-0980	16.00	14.40	13.60	12.00
		1/8"	Box of 72	301-0980	69.50	62.55	59.08	52.13
B101	60	1/8"	Box of 12	301-1010	19.00	17.10	16.15	14.25
B104	60	1/8"	Pkg. of 12	309-1040	17.00	15.30	14.45	12.75
		1/8"	Box of 72	301-1040	81.25	73.13	69.06	60.94
B105	100	1/8"	Pkg. of 12	309-1050	15.00	13.50	12.75	11.25
		1/8"	Box of 72	301-1050	69.50	62.55	59.08	52.13
B121	60	1/8"	Pkg. of 12	309-1210	17.00	15.30	14.45	12.75
		1/8"	Box of 36	301-1210	40.75	36.68	34.64	30.56
B122	60	1/8"	Pkg. of 12	309-1220	17.00	15.30	14.45	12.75
		1/8"	Box of 72	301-1220	81.25	73.13	69.06	60.94
B123	80	1/8"	Pkg. of 12	309-1230	15.00	13.50	12.75	11.25
		1/8"	Box of 72	301-1230	69.50	62.55	59.08	52.13
		3mm	Box of 72	313-1230	69.50	62.55	59.08	52.13
B124	80	1/8"	Pkg. of 12	309-1240	17.00	15.30	14.45	12.75
		1/8"	Box of 72	301-1240	75.00	67.50	63.75	56.25
B125	80	1/8"	Pkg. of 12	309-1250	17.00	15.30	14.45	12.75
		1/8"	Box of 72	301-1250	83.50	75.15	70.98	62.63
B132	80	1/8"	Pkg. of 12	309-1320	14.00	12.60	11.90	10.50
		1/8"	Box of 72	301-1320	62.25	56.03	52.91	46.69



Shape dimensions shown in inches.

All prices subject to change without notice.

Gesswein® Red Mounted Stones (continued)

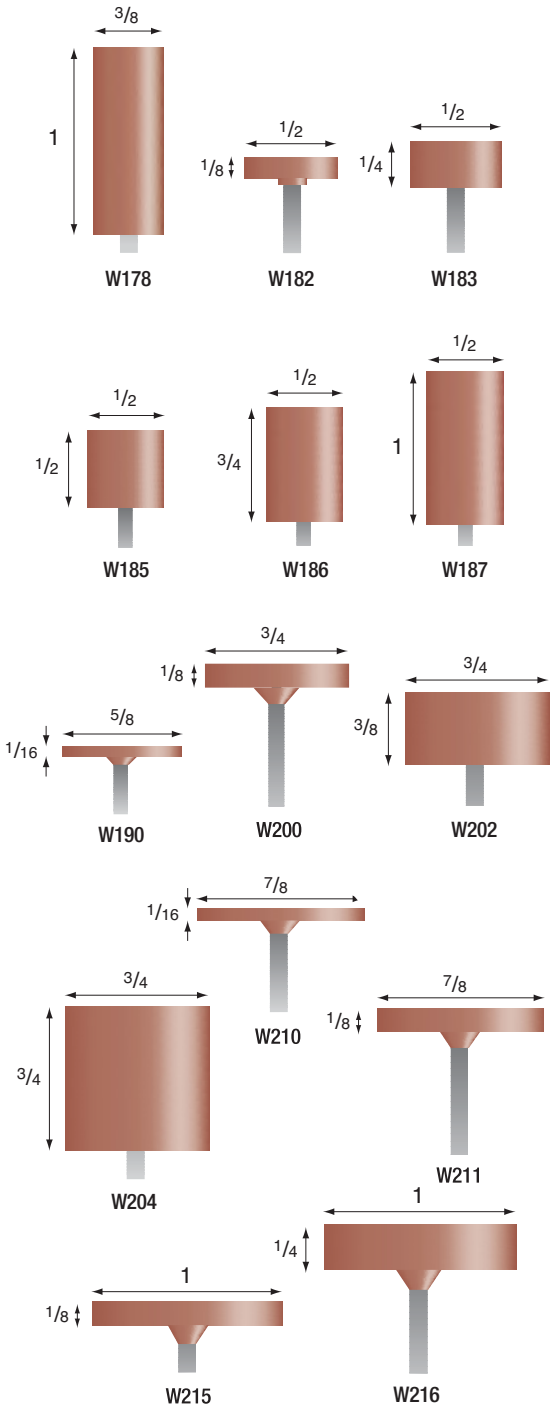


Shape dimensions shown in inches.

Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
B133	80	1/8"	Pkg. of 12	**309-1330**	**$14.00**	**$12.60**	**$11.90**	**$10.50**
		1/8"	Box of 72	**301-1330**	**60.00**	**54.00**	**51.00**	**45.00**
B135	80	1/8"	Pkg. of 12	**309-1350**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1350**	**62.25**	**56.03**	**52.91**	**46.69**
W140	100	1/8"	Pkg. of 12	**309-1400**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1400**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**313-1400**	**64.25**	**57.83**	**54.61**	**48.19**
W141	100	1/8"	Pkg. of 12	**309-1410**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1410**	**60.00**	**54.00**	**51.00**	**45.00**
W142	100	1/8"	Pkg. of 12	**309-1420**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1420**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**313-1420**	**64.25**	**57.83**	**54.61**	**48.19**
W144	80	1/8"	Pkg. of 12	**309-1440**	**12.75**	**11.48**	**10.84**	**9.56**
		1/8"	Box of 72	**301-1440**	**58.75**	**52.88**	**49.94**	**44.06**
		3mm	Box of 72	**313-1440**	**58.75**	**52.88**	**49.94**	**44.06**
W145	80	1/8"	Pkg. of 12	**309-1450**	**14.50**	**13.05**	**12.33**	**10.88**
		1/8"	Box of 72	**301-1450**	**64.25**	**57.83**	**54.61**	**48.19**
W146	80	1/8"	Pkg. of 12	**309-1460**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1460**	**64.25**	**57.83**	**54.61**	**48.19**
W148	80	1/8"	Pkg. of 12	**309-1480**	**15.00**	**13.50**	**12.75**	**11.25**
		1/8"	Box of 72	**301-1480**	**69.50**	**62.55**	**59.08**	**52.13**
W149	80	1/8"	Pkg. of 12	**309-1490**	**12.75**	**11.48**	**10.84**	**9.56**
		1/8"	Box of 72	**301-1490**	**58.75**	**52.88**	**49.94**	**44.06**
W152	80	1/8"	Pkg. of 12	**309-1520**	**12.75**	**11.48**	**10.84**	**9.56**
		1/8"	Box of 72	**301-1520**	**58.75**	**52.88**	**49.94**	**44.06**
		3mm	Box of 72	**313-1520**	**58.75**	**52.88**	**49.94**	**44.06**
W153	80	1/8"	Pkg. of 12	**309-1530**	**14.25**	**12.83**	**12.11**	**10.69**
		1/8"	Box of 72	**301-1530**	**64.25**	**57.83**	**54.61**	**48.19**
W154	80	1/8"	Pkg. of 12	**309-1540**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1540**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**313-1540**	**64.25**	**57.83**	**54.61**	**48.19**
W158	80	1/8"	Pkg. of 12	**309-1580**	**12.75**	**11.48**	**10.84**	**9.56**
		1/8"	Box of 72	**301-1580**	**58.75**	**52.88**	**49.94**	**44.06**
W161	80	1/8"	Pkg. of 12	**309-1610**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1610**	**64.25**	**57.83**	**54.61**	**48.19**
W162	80	1/8"	Pkg. of 12	**309-1620**	**14.25**	**12.83**	**12.11**	**10.69**
		1/8"	Box of 72	**301-1620**	**64.25**	**57.83**	**54.61**	**48.19**
W163	80	1/8"	Pkg. of 12	**309-1630**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1630**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**313-1630**	**64.25**	**57.83**	**54.61**	**48.19**
W164	80	1/8"	Pkg. of 12	**309-1640**	**15.00**	**13.50**	**12.75**	**11.25**
		1/8"	Box of 72	**301-1640**	**68.50**	**61.65**	**58.23**	**51.38**
W170	60	1/8"	Pkg. of 12	**309-1700**	**12.75**	**11.48**	**10.84**	**9.56**
		1/8"	Box of 72	**301-1700**	**64.25**	**57.83**	**54.61**	**48.19**
W175	60	1/8"	Pkg. of 12	**309-1750**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1750**	**64.25**	**57.83**	**54.61**	**48.19**
W176	60	1/8"	Pkg. of 12	**309-1760**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**301-1760**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**313-1760**	**64.25**	**57.83**	**54.61**	**48.19**

Gesswein® Red Mounted Stones (continued)

Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
W178	60	1/8"	Pkg. of 12	**309-1780**	**$16.00**	**$14.40**	**$13.60**	**$12.00**
		1/8"	Box of 72	**301-1780**	**71.75**	**64.58**	**60.99**	**53.81**
W182	80	1/8"	Pkg. of 12	**309-1820**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 36	**301-1820**	**30.00**	**27.00**	**25.50**	**22.50**
		3mm	Box of 36	**313-1820**	**30.00**	**27.00**	**25.50**	**22.50**
W183	80	1/8"	Pkg. of 12	**309-1830**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 36	**301-1830**	**28.00**	**28.00**	**28.00**	**28.00**
W185	60	1/8"	Pkg. of 12	**309-1850**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 36	**301-1850**	**32.00**	**28.80**	**27.20**	**24.00**
		3mm	Box of 36	**313-1850**	**32.00**	**28.80**	**27.20**	**24.00**
W186	60	1/8"	Pkg. of 12	**309-1860**	**15.00**	**13.50**	**12.75**	**11.25**
		1/8"	Box of 36	**301-1860**	**34.25**	**30.83**	**29.11**	**25.69**
W187	60	1/8"	Pkg. of 12	**309-1870**	**16.00**	**14.40**	**13.60**	**12.00**
		1/8"	Box of 36	**301-1870**	**36.50**	**32.85**	**31.03**	**27.38**
W190	80	1/8"	Pkg. of 12	**309-1900**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 36	**301-1900**	**30.00**	**27.00**	**25.50**	**22.50**
W200	60	1/8"	Box of 12	**301-2000**	**11.75**	**10.58**	**9.99**	**8.81**
W202	60	1/8"	Box of 12	**301-2020**	**14.00**	**12.60**	**11.90**	**10.50**
W204	60	1/8"	Box of 12	**301-2040**	**16.00**	**14.40**	**13.60**	**12.00**
W210	80	1/8"	Box of 12	**301-2100**	**14.00**	**12.60**	**11.90**	**10.50**
W211	80	1/8"	Box of 12	**301-2110**	**14.00**	**12.60**	**11.90**	**10.50**
W215	60	1/8"	Box of 12	**301-2150**	**14.00**	**12.60**	**11.90**	**10.50**
W216	60	1/8"	Box of 12	**301-2160**	**14.00**	**12.60**	**11.90**	**10.50**



Shape dimensions shown in inches.

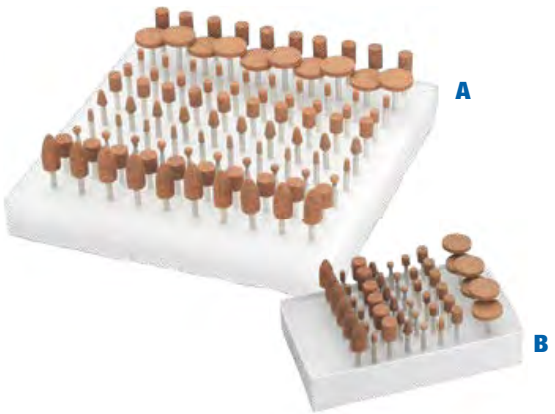
A, B Gesswein® Red Mounted Stone Sets – 1/8" Shank

Gesswein Red Mounted Stones are available in money-saving sets of 48 and 100 pieces. These assortments are made from our most popular shapes and offer a stone for almost every application. These sets offer big savings from the one-piece prices.

The 100-Piece Set includes ten each of our ten most popular shapes, conveniently packaged in a box to hold all 100 stones. Ten each of the following shapes: B44, B52, B96, B123, W144, W152, W162, W170, W175, W200.

The 48-Piece Set includes six each of eight popular shapes, conveniently packaged in a box to hold all 48 stones. Six each of the following shapes: B44, B52, B123, W144, W152, W162, W176, W200.

Description	Item#	Each
A. 100-Piece Red Mounted Stone Set	**310-3000**	**$108.50**
B. 48-Piece Red Mounted Stone Set	**310-3010**	**58.00**



All prices subject to change without notice.

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

Gesswein® Pink Mounted Stones

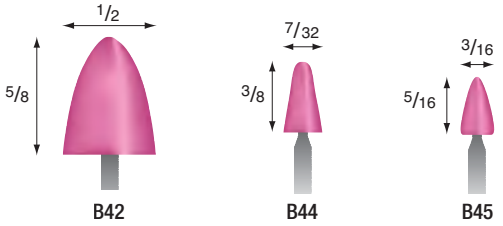
Made in the USA

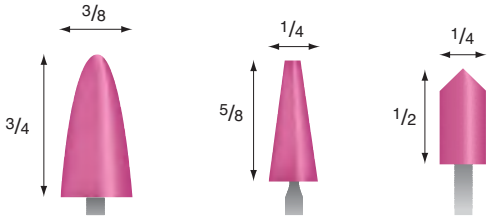
These highly popular, high-quality mounted stones are made with a pure, fused aluminum oxide alloyed with chrome, with a medium vitrified bonding agent. This combination gives it a distinctive pink color. These stones have been popular in Europe for many years because of their versatility, on a variety of steels and alloys where a sharp cutting action is required. The attributes of using pink abrasive grain is that besides being friable and cool cutting, the stones exhibit markedly better form holding characteristics, making them exceptionally durable, while giving the sharp cut that is needed. All are mounted on 1½" long plated steel shanks. Actual grit appears in the chart; varies from 80, 100 to 120.

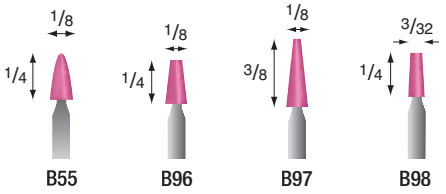
Pink stones can be dressed with our Tru-Stone #380-1030 (see p.51). For recommended speeds, consult the American National Standards Institute for full information on vitrified mounted wheels. Other shapes also available. Please call to special order.

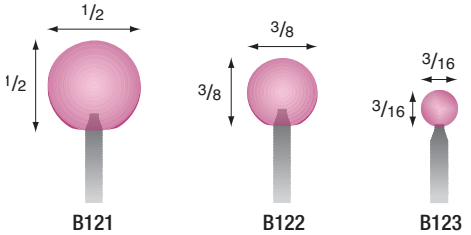
See warnings on p. 36.

Available in plastic packages of 12 and boxes of 12, 36 or 72.









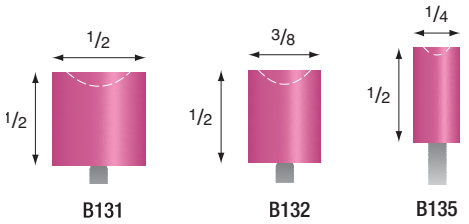
Shape dimensions shown in inches.

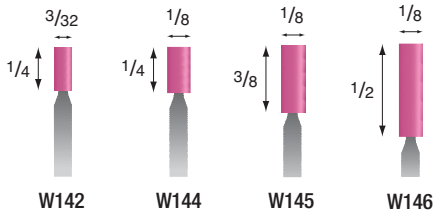
Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
B42	80	1/8"	Pkg. of 12	**331-1042**	**$21.75**	**$19.58**	**$18.49**	**$16.31**
		1/8"	Box of 36	**331-0042**	**51.00**	**45.90**	**43.35**	**38.25**
		3mm	Box of 36	**332-0042**	**49.50**	**44.55**	**42.08**	**37.13**
B44	100	1/8"	Pkg. of 12	**331-1044**	**18.50**	**16.65**	**15.73**	**13.88**
		1/8"	Box of 72	**331-0044**	**86.50**	**77.85**	**73.53**	**64.88**
		3mm	Box of 72	**332-0044**	**84.00**	**75.60**	**71.40**	**63.00**
B45	120	1/8"	Pkg. of 12	**331-1045**	**18.50**	**16.65**	**15.73**	**13.88**
		1/8"	Box of 72	**331-0045**	**86.50**	**77.85**	**73.53**	**64.88**
		3mm	Box of 72	**332-0045**	**84.00**	**75.60**	**71.40**	**63.00**
B52	80	1/8"	Pkg. of 12	**331-1052**	**19.60**	**17.64**	**16.66**	**14.70**
		1/8"	Box of 72	**331-0052**	**94.75**	**85.28**	**80.54**	**71.06**
		3mm	Box of 72	**332-0052**	**92.00**	**82.80**	**78.20**	**69.00**
B53	80	1/8"	Pkg. of 12	**331-1053**	**19.60**	**17.64**	**16.66**	**14.70**
		1/8"	Box of 72	**331-0053**	**94.75**	**85.28**	**80.54**	**71.06**
		3mm	Box of 72	**332-0053**	**92.00**	**82.80**	**78.20**	**69.00**
B54	80	1/8"	Pkg. of 12	**331-1054**	**19.60**	**17.64**	**16.66**	**14.70**
		1/8"	Box of 72	**331-0054**	**94.75**	**85.28**	**80.54**	**71.06**
		3mm	Box of 72	**332-0054**	**92.00**	**82.80**	**78.20**	**69.00**
B55	80	1/8"	Pkg. of 12	**331-1055**	**16.50**	**14.85**	**14.03**	**12.38**
		1/8"	Box of 72	**331-0055**	**74.25**	**66.83**	**63.11**	**55.69**
		3mm	Box of 72	**332-0055**	**72.00**	**64.80**	**61.20**	**54.00**
B96	80	1/8"	Pkg. of 12	**331-1096**	**16.50**	**14.85**	**14.03**	**12.38**
		1/8"	Box of 72	**331-0096**	**74.25**	**66.83**	**63.11**	**55.69**
		3mm	Box of 72	**332-0096**	**72.00**	**64.80**	**61.20**	**54.00**
B97	120	1/8"	Pkg. of 12	**331-1097**	**18.50**	**16.65**	**15.73**	**13.88**
		1/8"	Box of 72	**331-0097**	**86.50**	**77.85**	**73.53**	**64.88**
		3mm	Box of 72	**332-0097**	**84.00**	**75.60**	**71.40**	**63.00**
B98	120	1/8"	Pkg. of 12	**331-1098**	**17.50**	**15.75**	**14.88**	**13.13**
		1/8"	Box of 72	**331-0098**	**74.25**	**66.83**	**63.11**	**55.69**
		3mm	Box of 72	**332-0098**	**72.00**	**64.80**	**61.20**	**54.00**
B121	80	1/8"	Pkg. of 12	**331-1121**	**18.50**	**16.65**	**15.73**	**13.88**
		1/8"	Box of 36	**331-0121**	**43.25**	**38.93**	**36.76**	**32.44**
		3mm	Box of 36	**332-0121**	**42.00**	**37.80**	**35.70**	**31.50**
B122	80	1/8"	Pkg. of 12	**331-1122**	**18.50**	**16.65**	**15.73**	**13.88**
		1/8"	Box of 72	**331-0122**	**86.50**	**77.85**	**73.53**	**64.88**
		3mm	Box of 72	**332-0122**	**84.00**	**75.60**	**71.40**	**63.00**
B123	120	1/8"	Pkg. of 12	**331-1123**	**16.50**	**14.85**	**14.03**	**12.38**
		1/8"	Box of 72	**331-0123**	**74.25**	**66.83**	**63.11**	**55.69**
		3mm	Box of 72	**332-0123**	**72.00**	**64.80**	**61.20**	**54.00**

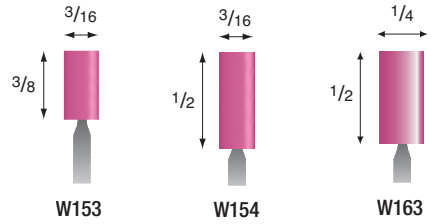
Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

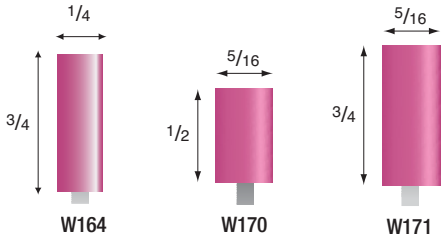
Gesswein® Pink Mounted Stones (continued)

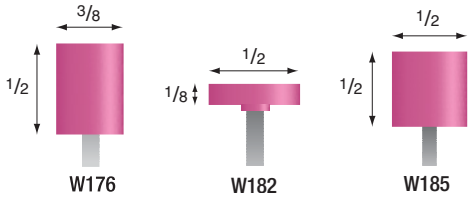
Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
B131	80	1/8"	Pkg. of 12	331-1131	$14.50	$13.05	$12.33	$10.88
		1/8"	Box of 36	331-0131	35.00	31.50	29.75	26.25
		3mm	Box of 36	332-0131	34.00	30.60	28.90	25.50
B132	80	1/8"	Pkg. of 12	331-1132	14.50	13.05	12.33	10.88
		1/8"	Box of 72	331-0132	69.00	62.10	58.65	51.75
		3mm	Box of 72	332-0132	67.00	60.30	56.95	50.25
B135	80	1/8"	Pkg. of 12	331-1135	14.50	13.05	12.33	10.88
		1/8"	Box of 72	331-0135	69.00	62.10	58.65	51.75
		3mm	Box of 72	332-0135	67.00	60.30	56.95	50.25
W142	120	1/8"	Pkg. of 12	331-1142	15.60	14.04	13.26	11.70
		1/8"	Box of 72	331-0142	69.00	62.10	58.65	51.75
		3mm	Box of 72	332-0142	67.00	60.30	56.95	50.25
W144	120	1/8"	Pkg. of 12	331-1144	15.60	14.04	13.26	11.70
		1/8"	Box of 72	331-0144	62.75	56.48	53.34	47.06
		3mm	Box of 72	332-0144	61.00	54.90	51.85	45.75
W145	120	1/8"	Pkg. of 12	331-1145	14.50	13.05	12.33	10.88
		1/8"	Box of 72	331-0145	69.00	62.10	58.65	51.75
		3mm	Box of 72	332-0145	67.00	60.30	56.95	50.25
W146	120	1/8"	Pkg. of 12	331-1146	14.50	13.05	12.33	10.88
		1/8"	Box of 72	331-0146	69.00	62.10	58.65	51.75
		3mm	Box of 72	332-0146	67.00	60.30	56.95	50.25
W153	100	1/8"	Pkg. of 12	331-1153	14.50	13.05	12.33	10.88
		1/8"	Box of 72	331-0153	69.00	62.10	58.65	51.75
		3mm	Box of 72	332-0153	67.00	60.30	56.95	50.25
W154	100	1/8"	Pkg. of 12	331-1154	14.50	13.05	12.33	10.88
		1/8"	Box of 72	331-0154	69.00	62.10	58.65	51.75
		3mm	Box of 72	332-0154	67.00	60.30	56.95	50.25
W163	80	1/8"	Pkg. of 12	331-1163	14.50	13.05	12.33	10.88
		1/8"	Box of 72	331-0163	69.00	62.10	58.65	51.75
		3mm	Box of 72	332-0163	67.00	60.30	56.95	50.25
W164	80	1/8"	Pkg. of 12	331-1164	15.50	13.95	13.18	11.63
		1/8"	Box of 72	331-0164	73.25	65.93	62.26	54.94
		3mm	Box of 72	332-0164	71.00	63.90	60.35	53.25
W170	80	1/8"	Pkg. of 12	331-1170	13.50	12.15	11.48	10.13
		1/8"	Box of 72	331-0170	81.50	73.35	69.28	61.13
		3mm	Box of 72	332-0170	67.00	60.30	56.95	50.25
W171	80	1/8"	Pkg. of 12	331-1171	15.60	14.04	13.26	11.70
		1/8"	Box of 72	331-0171	73.25	65.93	62.26	54.94
		3mm	Box of 72	332-0171	71.00	63.90	60.35	53.25
W176	80	1/8"	Pkg. of 12	331-1176	14.50	13.05	12.33	10.88
		1/8"	Box of 72	331-0176	69.00	62.10	58.65	51.75
		3mm	Box of 72	332-0176	67.00	60.30	56.95	50.25
W182	80	1/8"	Pkg. of 12	331-1182	14.50	13.05	12.33	10.88
		1/8"	Box of 36	331-0182	32.00	28.80	27.20	24.00
		3mm	Box of 36	332-0182	31.00	27.90	26.35	23.25
W185	80	1/8"	Pkg. of 12	331-1185	14.50	13.05	12.33	10.88
		1/8"	Box of 36	331-0185	35.00	31.50	29.75	26.25
		3mm	Box of 36	332-0185	34.00	30.60	28.90	25.50











Shape dimensions shown in inches.

A. Gesswein® Pink Mounted Stone Set – 1/8" Shank

Gesswein Pink Mounted Stones are available in a money-saving set of 48 pieces. This assortment is made from our most popular shapes and offers a stone for almost every application. Includes six each of eight popular shapes, conveniently packaged in a box to hold all 48 stones. Six each of the following shapes: B44, B52, B53, B122, B123, W145, W163, W176.

Description	Item#	Each
48-Piece Pink Mounted Stone Set	331-0010	$65.00

A

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

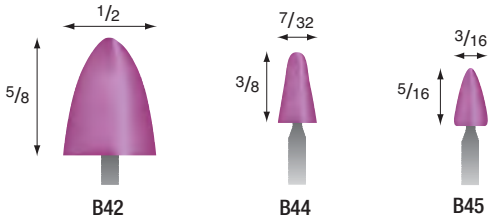
Gesswein®
Purple Mounted Stones

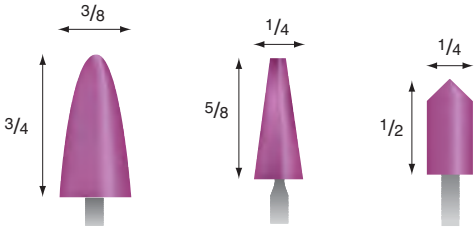
Made in the USA

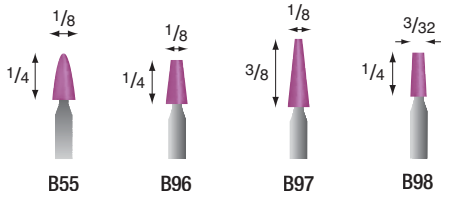
These "top of the line" mounted stones are made with a unique combination of Sol Gel ceramic grain and our high quality Pink fused aluminum oxide to produce the sharpest cut, and most durable of the friable grain vitrified bond stones. This combination gives it a distinctive purple color. Ceramic grain is the most friable grain produced. Due to the sharp cutting action, this mixture is used on high nickel alloys for the aerospace industry, as well as many common varieties of steels and alloys. All are mounted on 1½" long plated steel shanks. Actual grit appears in the chart; varies from 80, 100 to 120.

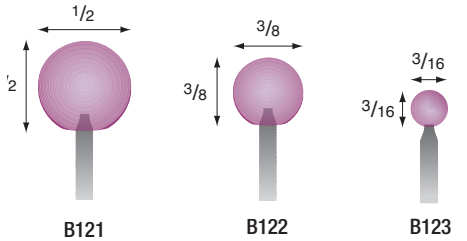
Purple stones can be dressed with our Tru-Stone #380-1030 (see p. 51). For recommended speeds, consult the American National Standards Institute for full information on vitrified mounted wheels. Other shapes also available. Please call to special order. **See warnings on p. 36.**

Available in plastic packages of 12 and boxes of 12, 36 or 72.









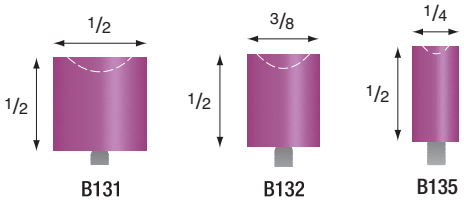
Shape dimensions shown in inches.

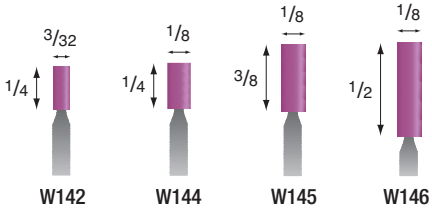
Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
B42	80	1/8"	Pkg. of 12	**333-1042**	**$23.00**	**$20.70**	**$19.55**	**$17.25**
		1/8"	Box of 36	**333-0042**	**54.00**	**48.60**	**45.90**	**40.50**
		3mm	Box of 36	**334-0042**	**54.00**	**48.60**	**45.90**	**40.50**
B44	100	1/8"	Pkg. of 12	**333-1044**	**19.00**	**17.10**	**16.15**	**14.25**
		1/8"	Box of 72	**333-0044**	**90.00**	**81.00**	**76.50**	**67.50**
		3mm	Box of 72	**334-0044**	**90.00**	**81.00**	**76.50**	**67.50**
B45	100	1/8"	Pkg. of 12	**333-1045**	**19.00**	**17.10**	**16.15**	**14.25**
		1/8"	Box of 72	**333-0045**	**90.00**	**81.00**	**76.50**	**67.50**
		3mm	Box of 72	**334-0045**	**90.00**	**81.00**	**76.50**	**67.50**
B52	80	1/8"	Pkg. of 12	**333-1052**	**21.00**	**18.90**	**17.85**	**15.75**
		1/8"	Box of 72	**333-0052**	**97.00**	**87.30**	**82.45**	**72.75**
		3mm	Box of 72	**334-0052**	**97.00**	**87.30**	**82.45**	**72.75**
B53	120	1/8"	Pkg. of 12	**333-1053**	**21.00**	**18.90**	**17.85**	**15.75**
		1/8"	Box of 72	**333-0053**	**97.00**	**87.30**	**82.45**	**72.75**
		3mm	Box of 72	**334-0053**	**97.00**	**87.30**	**82.45**	**72.75**
B54	80	1/8"	Pkg. of 12	**333-1054**	**21.00**	**18.90**	**17.85**	**15.75**
		1/8"	Box of 72	**333-0054**	**97.00**	**87.30**	**82.45**	**72.75**
		3mm	Box of 72	**334-0054**	**97.00**	**87.30**	**82.45**	**72.75**
B55	120	1/8"	Pkg. of 12	**333-1055**	**17.00**	**15.30**	**14.45**	**12.75**
		1/8"	Box of 72	**333-0055**	**78.00**	**70.20**	**66.30**	**58.50**
		3mm	Box of 72	**334-0055**	**78.00**	**70.20**	**66.30**	**58.50**
B96	120	1/8"	Pkg. of 12	**333-1096**	**17.00**	**15.30**	**14.45**	**12.75**
		1/8"	Box of 72	**333-0096**	**78.00**	**70.20**	**66.30**	**58.50**
		3mm	Box of 72	**334-0096**	**78.00**	**70.20**	**66.30**	**58.50**
B97	120	1/8"	Pkg. of 12	**333-1097**	**17.00**	**15.30**	**14.45**	**12.75**
		1/8"	Box of 72	**333-0097**	**91.00**	**81.90**	**77.35**	**68.25**
		3mm	Box of 72	**334-0097**	**91.00**	**81.90**	**77.35**	**68.25**
B98	120	1/8"	Pkg. of 12	**333-1098**	**18.00**	**16.20**	**15.30**	**13.50**
		1/8"	Box of 72	**333-0098**	**78.00**	**70.20**	**66.30**	**58.50**
		3mm	Box of 72	**334-0098**	**78.00**	**70.20**	**66.30**	**58.50**
B121	80	1/8"	Pkg. of 12	**333-1121**	**19.00**	**17.10**	**16.15**	**14.25**
		1/8"	Box of 36	**333-0121**	**46.00**	**41.40**	**39.10**	**34.50**
		3mm	Box of 36	**334-0121**	**46.00**	**41.40**	**39.10**	**34.50**
B122	80	1/8"	Pkg. of 12	**333-1122**	**19.00**	**17.10**	**16.15**	**14.25**
		1/8"	Box of 72	**333-0122**	**90.00**	**81.00**	**76.50**	**67.50**
		3mm	Box of 72	**334-0122**	**90.00**	**81.00**	**76.50**	**67.50**
B123	120	1/8"	Pkg. of 12	**333-1123**	**19.00**	**17.10**	**16.15**	**14.25**
		1/8"	Box of 72	**333-0123**	**78.00**	**70.20**	**66.30**	**58.50**
		3mm	Box of 72	**334-0123**	**78.00**	**70.20**	**66.30**	**58.50**

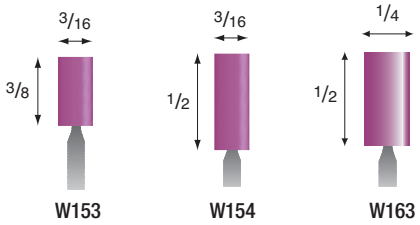
Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

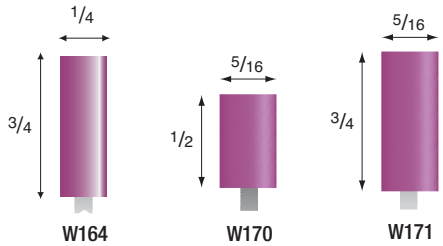
Gesswein® Purple Mounted Stones (continued)

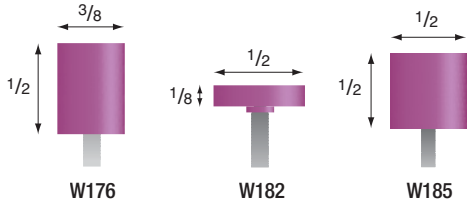
Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
B131	80	1/8"	Pkg. of 12	333-1131	$16.00	$14.40	$13.60	$12.00
		1/8"	Box of 36	333-0131	36.00	32.40	30.60	27.00
		3mm	Box of 36	334-0131	36.00	32.40	30.60	27.00
B132	80	1/8"	Pkg. of 12	333-1132	16.00	14.40	13.60	12.00
		1/8"	Box of 72	333-0132	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0132	74.00	66.60	62.90	55.50
B135	80	1/8"	Pkg. of 12	333-1135	16.00	14.40	13.60	12.00
		1/8"	Box of 72	333-0135	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0135	74.00	66.60	62.90	55.50
W142	120	1/8"	Pkg. of 12	333-1142	16.00	14.40	13.60	12.00
		1/8"	Box of 72	333-0142	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0142	74.00	66.60	62.90	55.50
W144	120	1/8"	Pkg. of 12	333-1144	15.00	13.50	12.75	11.25
		1/8"	Box of 72	333-0144	65.00	58.50	55.25	48.75
		3mm	Box of 72	334-0144	65.00	58.50	55.25	48.75
W145	120	1/8"	Pkg. of 12	333-1145	16.00	14.40	13.60	12.00
		1/8"	Box of 72	333-0145	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0145	74.00	66.60	62.90	55.50
W146	120	1/8"	Pkg. of 12	333-1146	16.00	14.40	13.60	12.00
		1/8"	Box of 72	333-0146	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0146	74.00	66.60	62.90	55.50
W153	80	1/8"	Pkg. of 12	333-1153	16.00	14.40	13.60	12.00
		1/8"	Box of 72	333-0153	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0153	74.00	66.60	62.90	55.50
W154	80	1/8"	Pkg. of 12	333-1154	16.00	14.40	13.60	12.00
		1/8"	Box of 72	333-0154	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0154	74.00	66.60	62.90	55.50
W163	80	1/8"	Pkg. of 12	333-1163	16.00	14.40	13.60	12.00
		1/8"	Box of 72	333-0163	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0163	74.00	66.60	62.90	55.50
W164	100	1/8"	Pkg. of 12	333-1164	17.00	15.30	14.45	12.75
		1/8"	Box of 72	333-0164	78.00	70.20	66.30	58.50
		3mm	Box of 72	334-0164	78.00	70.20	66.30	58.50
W170	100	1/8"	Pkg. of 12	333-1170	15.00	13.50	12.75	11.25
		1/8"	Box of 72	333-0170	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0170	74.00	66.60	62.90	55.50
W171	100	1/8"	Pkg. of 12	333-1171	17.00	15.30	14.45	12.75
		1/8"	Box of 72	333-0171	78.00	70.20	66.30	58.50
		3mm	Box of 72	334-0171	78.00	70.20	66.30	58.50
W176	80	1/8"	Pkg. of 12	333-1176	16.00	14.40	13.60	12.00
		1/8"	Box of 72	333-0176	74.00	66.60	62.90	55.50
		3mm	Box of 72	334-0176	74.00	66.60	62.90	55.50
W182	100	1/8"	Pkg. of 12	333-1182	16.00	14.40	13.60	12.00
		1/8"	Box of 36	333-0182	34.00	30.60	28.90	25.50
		3mm	Box of 36	334-0182	34.00	30.60	28.90	25.50
W185	80	1/8"	Pkg. of 12	333-1185	16.00	14.40	13.60	12.00
		1/8"	Box of 36	333-0185	36.00	32.40	30.60	27.00
		3mm	Box of 36	334-0185	36.00	32.40	30.60	27.00











Shape dimensions shown in inches.

A. Gesswein® Purple Mounted Stone Set – 1/8" Shank

Gesswein Purple Mounted Stones are available in a money-saving set of 48 pieces. This assortment is made from our most popular shapes and offers a stone for almost every application. Includes six each of eight popular shapes, conveniently packaged in a box to hold all 48 stones. Six each of the following shapes: B44, B52, B53, B122, B123, W145, W163, W176.

Description	Item#	Each
48-Piece Purple Mounted Stone Set	333-0010	$69.00

A

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

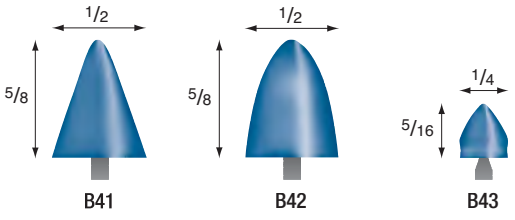
Gesswein®
Blue Mounted Stones

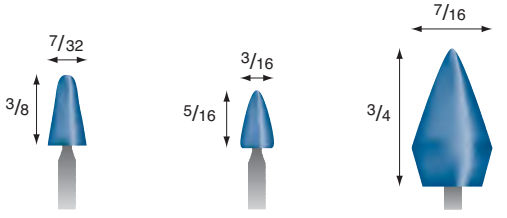
Made in the USA

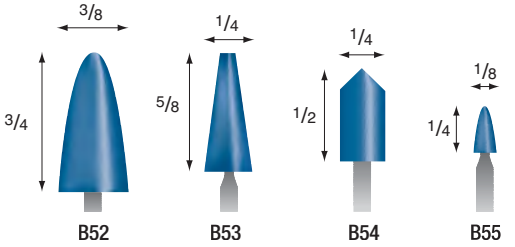
These superior quality stones are made of aluminum oxide bonded with porcelain-type bonds, which provide the greatest strength and rigidity required for fast stock removal and longer life. The ceramic bond controls the release of the aluminum oxide abrasive grains. As each particle begins to dull, the bond discharges it, allowing new abrasive grain to surface with fresh, sharp cutting edges. Stones are securely bonded to their shanks and are guaranteed to run true.

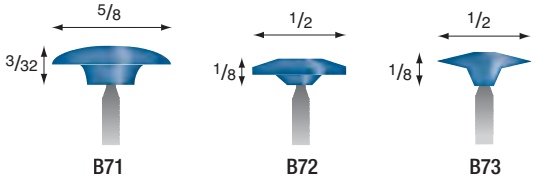
These hard stones hold their shapes exceptionally well. Recommended for use on hardened steel. All are 120 (fine) grit aluminum oxide. They cut well and leave a smooth surface. All have 1½" long plated steel shanks. Blue mounted stones can be dressed with our Tru-Stone #380-1030 (see p. 51). For recommended speeds, consult the American National Standard Institute for full information on vitrified mounted wheels. **See warnings on p. 36.**

Available in plastic packages of 12 and boxes of 12, 36 or 72.









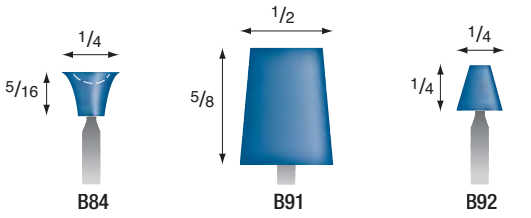
Shape dimensions shown in inches.

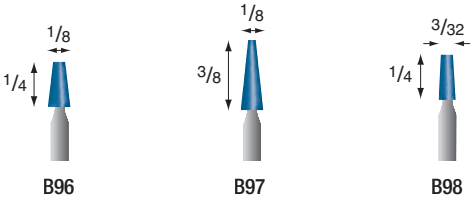
Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
B41	120	1/8"	Pkg. of 12	**304-0410**	**$19.25**	**$17.33**	**$16.36**	**$14.44**
		1/8"	Box of 36	**300-0410**	**46.00**	**41.40**	**39.10**	**34.50**
		3mm	Box of 36	**308-0410**	**46.00**	**41.40**	**39.10**	**34.50**
B42	120	1/8"	Pkg. of 12	**304-0420**	**20.25**	**18.23**	**17.21**	**15.19**
		1/8"	Box of 36	**300-0420**	**48.25**	**43.43**	**41.01**	**36.19**
		3mm	Box of 36	**308-0420**	**48.25**	**43.43**	**41.01**	**36.19**
B43	120	1/8"	Pkg. of 12	**304-0430**	**17.00**	**15.30**	**14.45**	**12.75**
		1/8"	Box of 72	**300-0430**	**81.25**	**73.13**	**69.06**	**60.94**
		3mm	Box of 72	**308-0430**	**81.25**	**73.13**	**69.06**	**60.94**
B44	120	1/8"	Pkg. of 12	**304-0440**	**17.00**	**15.30**	**14.45**	**12.75**
		1/8"	Box of 72	**300-0440**	**83.25**	**74.93**	**70.76**	**62.44**
		3mm	Box of 72	**308-0440**	**83.25**	**74.93**	**70.76**	**62.44**
B45	120	1/8"	Pkg. of 12	**304-0450**	**17.00**	**15.30**	**14.45**	**12.75**
		1/8"	Box of 72	**300-0450**	**81.25**	**73.13**	**69.06**	**60.94**
		3mm	Box of 72	**308-0450**	**81.25**	**73.13**	**69.06**	**60.94**
B51	120	1/8"	Pkg. of 12	**304-0510**	**20.25**	**18.23**	**17.21**	**15.19**
		1/8"	Box of 72	**300-0510**	**96.25**	**86.63**	**81.81**	**72.19**
		3mm	Box of 72	**308-0510**	**96.25**	**86.63**	**81.81**	**72.19**
B52	120	1/8"	Pkg. of 12	**304-0520**	**18.25**	**16.43**	**15.51**	**13.69**
		1/8"	Box of 72	**300-0520**	**91.00**	**81.90**	**77.35**	**68.25**
		3mm	Box of 72	**308-0520**	**88.75**	**79.88**	**75.44**	**66.56**
B53	120	1/8"	Pkg. of 12	**304-0530**	**18.75**	**18.75**	**16.88**	**14.06**
		1/8"	Box of 72	**300-0530**	**91.00**	**81.90**	**77.35**	**68.25**
		3mm	Box of 72	**308-0530**	**88.75**	**79.88**	**75.44**	**66.56**
B54	120	1/8"	Pkg. of 12	**304-0540**	**18.25**	**18.25**	**16.43**	**13.69**
		1/8"	Box of 72	**300-0540**	**88.75**	**79.88**	**75.44**	**66.56**
		3mm	Box of 72	**308-0540**	**83.00**	**74.70**	**70.55**	**62.25**
B55	120	1/8"	Pkg. of 12	**304-0550**	**15.00**	**13.50**	**12.75**	**11.25**
		1/8"	Box of 72	**300-0550**	**69.50**	**62.55**	**59.08**	**52.13**
		3mm	Box of 72	**308-0550**	**69.50**	**62.55**	**59.08**	**52.13**
B71	120	1/8"	Pkg. of 12	**304-0710**	**17.00**	**15.30**	**14.45**	**12.75**
		1/8"	Box of 36	**300-0710**	**45.00**	**40.50**	**38.25**	**33.75**
		3mm	Box of 36	**308-0710**	**45.00**	**40.50**	**38.25**	**33.75**
B72	120	1/8"	Pkg. of 12	**304-0720**	**16.00**	**13.60**	**12.00**	**12.00**
		1/8"	Box of 36	**300-0720**	**39.50**	**35.55**	**33.58**	**29.63**
		3mm	Box of 36	**308-0720**	**39.50**	**35.55**	**33.58**	**29.63**
B73	120	1/8"	Pkg. of 12	**304-0730**	**18.25**	**16.43**	**15.51**	**13.69**
		1/8"	Box of 36	**300-0730**	**42.00**	**37.80**	**35.70**	**31.50**
		3mm	Box of 36	**308-0730**	**45.00**	**40.50**	**38.25**	**33.75**

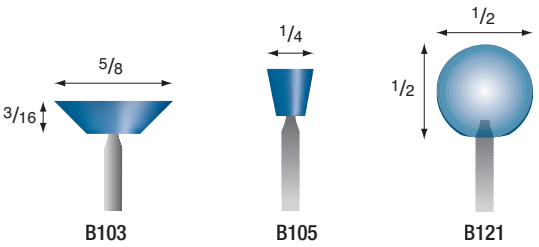
Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

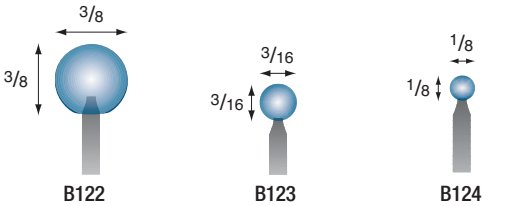
Gesswein® Blue Mounted Stones (continued)

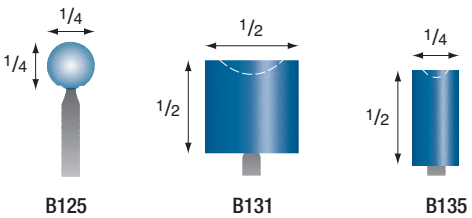
Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
B84	120	1/8"	Pkg. of 12	304-0840	$15.00	$13.50	$12.75	$11.25
		1/8"	Box of 72	300-0840	69.50	62.55	59.08	52.13
		3mm	Box of 72	308-0840	69.50	62.55	59.08	52.13
B91	120	1/8"	Box of 12	300-0910	18.25	16.43	15.51	13.69
		3mm	Box of 12	308-0910	18.25	16.43	15.51	13.69
B92	120	1/8"	Pkg. of 12	304-0920	15.00	15.00	12.75	11.25
		1/8"	Box of 72	300-0920	71.75	64.58	60.99	53.81
		3mm	Box of 72	308-0920	71.75	64.58	60.99	53.81
B96	120	1/8"	Pkg. of 12	304-0960	15.00	13.50	12.75	11.25
		1/8"	Box of 72	300-0960	69.50	62.55	59.08	52.13
		3mm	Box of 72	308-0960	69.50	62.55	59.08	52.13
B97	120	1/8"	Pkg. of 12	304-0970	17.00	15.30	14.45	12.75
		1/8"	Box of 72	300-0970	83.25	74.93	70.76	62.44
		3mm	Box of 72	308-0970	83.25	74.93	70.76	62.44
B98	120	1/8"	Pkg. of 12	304-0980	16.00	14.40	13.60	12.00
		1/8"	Box of 72	300-0980	69.50	62.55	59.08	52.13
		3mm	Box of 72	308-0980	69.50	62.55	59.08	52.13
B103	120	1/8"	Box of 12	300-1030	18.25	16.43	15.51	13.69
		3mm	Box of 12	308-1030	18.25	16.43	15.51	13.69
B105	120	1/8"	Pkg. of 12	304-1050	15.00	13.50	12.75	11.25
		1/8"	Box of 72	300-1050	65.00	58.50	55.25	48.75
		3mm	Box of 72	308-1050	69.50	62.55	59.08	52.13
B121	120	1/8"	Pkg. of 12	304-1210	17.50	15.75	14.88	13.13
		1/8"	Box of 36	300-1210	40.75	36.68	34.64	30.56
		3mm	Box of 36	308-1210	40.75	36.68	34.64	30.56
B122	120	1/8"	Pkg. of 12	304-1220	17.50	15.75	14.88	13.13
		1/8"	Box of 72	300-1220	81.25	73.13	69.06	60.94
		3mm	Box of 72	308-1220	81.25	73.13	69.06	60.94
B123	120	1/8"	Pkg. of 12	304-1230	15.00	13.50	12.75	11.25
		1/8"	Box of 72	300-1230	71.25	64.13	60.56	53.44
		3mm	Box of 72	308-1230	71.25	64.13	60.56	53.44
B124	120	1/8"	Pkg. of 12	304-1240	17.50	15.75	14.88	13.13
		1/8"	Box of 72	300-1240	76.75	69.08	65.24	57.56
		3mm	Box of 72	308-1240	75.00	67.50	63.75	56.25
B125	120	1/8"	Pkg. of 12	304-1250	17.50	15.75	14.88	13.13
		1/8"	Box of 72	300-1250	83.50	75.15	70.98	62.63
		3mm	Box of 72	308-1250	85.50	76.95	72.68	64.13
B131	120	1/8"	Pkg. of 12	304-1310	14.00	12.60	11.90	10.50
		1/8"	Box of 36	300-1310	30.00	27.00	25.50	22.50
		3mm	Box of 36	308-1310	32.00	28.80	27.20	24.00
B135	120	1/8"	Pkg. of 12	304-1350	14.25	12.83	12.11	10.69
		1/8"	Box of 72	300-1350	64.25	57.83	54.61	48.19
		3mm	Box of 72	308-1350	64.25	57.83	54.61	48.19
W140	120	1/8"	Pkg. of 12	304-1400	14.25	12.83	12.11	10.69
		1/8"	Box of 72	300-1400	64.25	57.83	54.61	48.19
		3mm	Box of 72	308-1400	65.75	59.18	55.89	49.31
W142	120	1/8"	Pkg. of 12	304-1420	14.00	12.60	11.90	10.50
		1/8"	Box of 72	300-1420	64.25	57.83	54.61	48.19
		3mm	Box of 72	308-1420	64.25	57.83	54.61	48.19
W144	120	1/8"	Pkg. of 12	304-1440	12.75	11.48	10.84	9.56
		1/8"	Box of 72	300-1440	60.25	54.23	51.21	45.19
		3mm	Box of 72	308-1440	58.75	52.88	49.94	44.06
W145	120	1/8"	Pkg. of 12	304-1450	14.00	12.60	11.90	10.50
		1/8"	Box of 72	300-1450	65.75	59.18	55.89	49.31
		3mm	Box of 72	308-1450	65.75	59.18	55.89	49.31

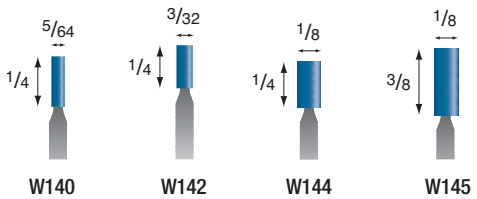








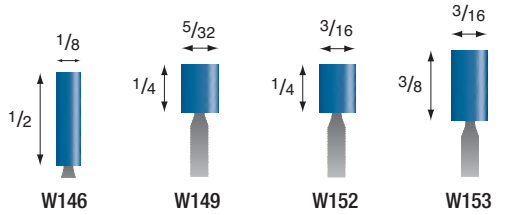


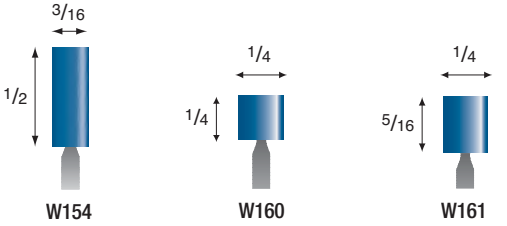


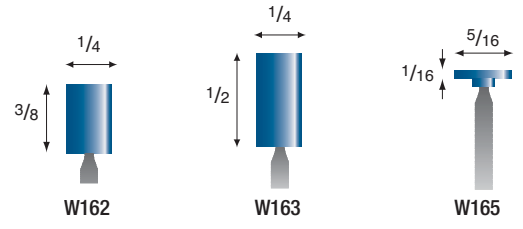
Shape dimensions shown in inches.

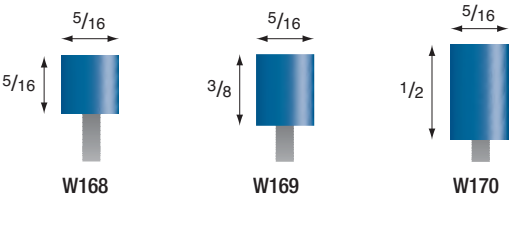
All prices subject to change without notice.

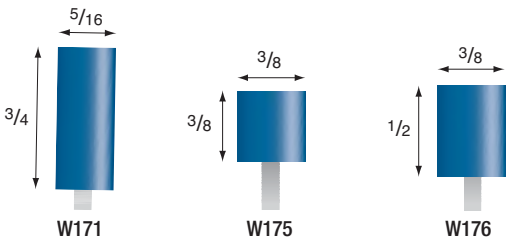
Gesswein® Blue Mounted Stones (continued)

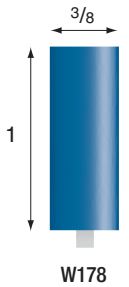










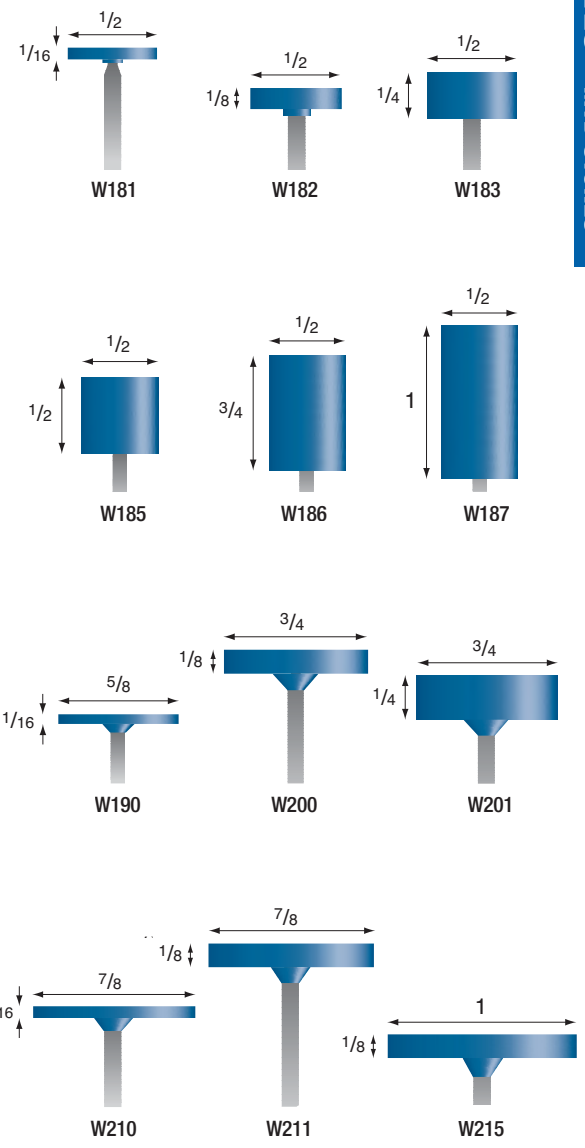


Shape dimensions shown in inches.

Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
W146	120	1/8"	Pkg. of 12	**304-1460**	**$14.25**	**$12.83**	**$12.11**	**$10.69**
		1/8"	Box of 72	**300-1460**	**65.75**	**59.18**	**55.89**	**49.31**
		3mm	Box of 72	**308-1460**	**64.25**	**57.83**	**54.61**	**48.19**
W149	120	1/8"	Pkg. of 12	**304-1490**	**12.75**	**11.48**	**10.84**	**9.56**
		1/8"	Box of 72	**300-1490**	**58.75**	**52.88**	**49.94**	**44.06**
		3mm	Box of 72	**308-1490**	**58.75**	**52.88**	**49.94**	**44.06**
W152	120	1/8"	Pkg. of 12	**304-1520**	**12.75**	**11.48**	**10.84**	**9.56**
		1/8"	Box of 72	**300-1520**	**58.75**	**52.88**	**49.94**	**44.06**
		3mm	Box of 72	**308-1520**	**58.75**	**52.88**	**49.94**	**44.06**
W153	120	1/8"	Pkg. of 12	**304-1530**	**14.25**	**12.83**	**12.11**	**10.69**
		1/8"	Box of 72	**300-1530**	**65.75**	**59.18**	**55.89**	**49.31**
		3mm	Box of 72	**308-1530**	**65.75**	**59.18**	**55.89**	**49.31**
W154	120	1/8"	Pkg. of 12	**304-1540**	**14.25**	**12.83**	**12.11**	**10.69**
		1/8"	Box of 72	**300-1540**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**308-1540**	**64.25**	**57.83**	**54.61**	**48.19**
W160	120	1/8"	Pkg. of 12	**304-1600**	**12.75**	**11.48**	**10.84**	**9.56**
		1/8"	Box of 72	**300-1600**	**58.75**	**52.88**	**49.94**	**44.06**
		3mm	Box of 72	**308-1600**	**58.75**	**52.88**	**49.94**	**44.06**
W161	120	1/8"	Pkg. of 12	**304-1610**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**300-1610**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**308-1610**	**64.25**	**57.83**	**54.61**	**48.19**
W162	120	1/8"	Pkg. of 12	**304-1620**	**14.25**	**12.83**	**12.11**	**10.69**
		1/8"	Box of 72	**300-1620**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**308-1620**	**64.25**	**57.83**	**54.61**	**48.19**
W163	120	1/8"	Pkg. of 12	**304-1630**	**14.25**	**12.83**	**12.11**	**10.69**
		1/8"	Box of 72	**300-1630**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**308-1630**	**65.75**	**59.18**	**55.89**	**49.31**
W165	120	1/8"	Pkg. of 12	**304-1650**	**12.75**	**11.48**	**10.84**	**9.56**
		1/8"	Box of 72	**300-1650**	**60.00**	**54.00**	**51.00**	**45.00**
		3mm	Box of 72	**308-1650**	**58.75**	**52.88**	**49.94**	**44.06**
W168	120	1/8"	Pkg. of 12	**304-1680**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**300-1680**	**62.00**	**55.80**	**52.70**	**46.50**
		3mm	Box of 72	**308-1680**	**66.25**	**59.63**	**56.31**	**49.69**
W169	120	1/8"	Pkg. of 12	**304-1690**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**300-1690**	**66.25**	**59.63**	**56.31**	**49.69**
		3mm	Box of 72	**308-1690**	**66.25**	**59.63**	**56.31**	**49.69**
W170	120	1/8"	Pkg. of 12	**304-1700**	**13.25**	**11.93**	**11.26**	**9.94**
		1/8"	Box of 72	**300-1700**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**308-1700**	**64.25**	**57.83**	**54.61**	**48.19**
W171	120	1/8"	Pkg. of 12	**304-1710**	**15.00**	**13.50**	**12.75**	**11.25**
		1/8"	Box of 72	**300-1710**	**68.50**	**61.65**	**58.23**	**51.38**
		3mm	Box of 72	**308-1710**	**68.50**	**61.65**	**58.23**	**51.38**
W175	120	1/8"	Pkg. of 12	**304-1750**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**300-1750**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**308-1750**	**64.25**	**57.83**	**54.61**	**48.19**
W176	120	1/8"	Pkg. of 12	**304-1760**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 72	**300-1760**	**64.25**	**57.83**	**54.61**	**48.19**
		3mm	Box of 72	**308-1760**	**65.75**	**59.18**	**55.89**	**49.31**
W178	120	1/8"	Pkg. of 12	**304-1780**	**16.00**	**14.40**	**13.60**	**12.00**
		1/8"	Box of 72	**300-1780**	**71.75**	**64.58**	**60.99**	**53.81**
		3mm	Box of 72	**308-1780**	**68.75**	**61.88**	**58.44**	**51.56**

Gesswein® Blue Mounted Stones (continued)

Style	Grit	Shank	Qty.	Item#	PKG./BOX Prices 1	2-3	4-9	10+
W181	120	1/8"	Pkg. of 12	**304-1810**	**$14.00**	**$12.60**	**$11.90**	**$10.50**
		1/8"	Box of 36	**300-1810**	**30.00**	**27.00**	**25.50**	**22.50**
		3mm	Box of 36	**308-1810**	**30.00**	**27.00**	**25.50**	**22.50**
W182	120	1/8"	Pkg. of 12	**304-1820**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 36	**300-1820**	**30.00**	**27.00**	**25.50**	**22.50**
		3mm	Box of 36	**308-1820**	**30.00**	**27.00**	**25.50**	**22.50**
W183	120	1/8"	Pkg. of 12	**304-1830**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 36	**300-1830**	**30.00**	**27.00**	**25.50**	**22.50**
		3mm	Box of 36	**308-1830**	**30.00**	**27.00**	**25.50**	**22.50**
W185	120	1/8"	Pkg. of 12	**304-1850**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 36	**300-1850**	**32.00**	**28.80**	**27.20**	**24.00**
		3mm	Box of 36	**308-1850**	**32.00**	**28.80**	**27.20**	**24.00**
W186	120	1/8"	Pkg. of 12	**304-1860**	**15.00**	**13.50**	**12.75**	**11.25**
		1/8"	Box of 36	**300-1860**	**34.25**	**30.83**	**29.11**	**25.69**
		3mm	Box of 36	**308-1860**	**34.25**	**30.83**	**29.11**	**25.69**
W187	120	1/8"	Pkg. of 12	**304-1870**	**16.00**	**14.40**	**13.60**	**12.00**
		1/8"	Box of 36	**300-1870**	**36.50**	**32.85**	**31.03**	**27.38**
		3mm	Box of 36	**308-1870**	**36.50**	**32.85**	**31.03**	**27.38**
W190	120	1/8"	Pkg. of 12	**304-1900**	**14.00**	**12.60**	**11.90**	**10.50**
		1/8"	Box of 36	**300-1900**	**32.00**	**28.80**	**27.20**	**24.00**
		3mm	Box of 36	**308-1900**	**32.00**	**28.80**	**27.20**	**24.00**
W200	120	1/8"	Box of 12	**300-2000**	**11.75**	**10.58**	**9.99**	**8.81**
		3mm	Box of 12	**308-2000**	**11.75**	**10.58**	**9.99**	**8.81**
W201	120	1/8"	Box of 12	**300-2010**	**11.75**	**10.58**	**9.99**	**8.81**
		3mm	Box of 12	**308-2010**	**11.75**	**10.58**	**9.99**	**8.81**
W210	120	1/8"	Box of 12	**300-2100**	**14.00**	**12.60**	**11.90**	**10.50**
		3mm	Box of 12	**308-2100**	**13.00**	**11.70**	**11.05**	**9.75**
W211	120	1/8"	Box of 12	**300-2110**	**14.00**	**12.60**	**11.90**	**10.50**
		3mm	Box of 12	**308-2110**	**14.00**	**12.60**	**11.90**	**10.50**
W215	120	1/8"	Box of 12	**300-2150**	**14.25**	**12.83**	**12.11**	**10.69**
		3mm	Box of 12	**308-2150**	**14.25**	**12.83**	**12.11**	**10.69**



Shape dimensions shown in inches.

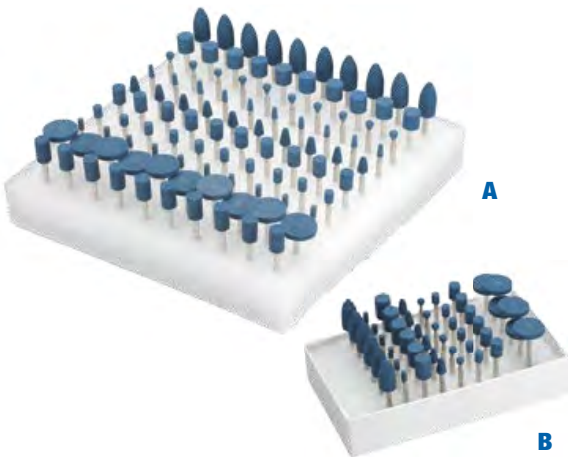
A, B Gesswein® Blue Mounted Stone Sets – 1/8" Shank

Gesswein Blue Mounted Stones are available in money-saving sets of 48 and 100 pieces. These assortments are made from our most popular shapes and offer a stone for almost every application. These sets offer big savings from the one-piece prices.

The 100-Piece Set includes ten each of our ten most popular shapes, conveniently packaged in a box to hold all 100 stones. Ten each of the following shapes: B44, B52, B96, B123, W144, W152, W162, W170, W175, W200.

The 48-Piece Set includes six each of eight popular shapes, conveniently packaged in a box to hold all 48 stones. Six each of the following shapes: B44, B52, B123, W144, W152, W162, W176, W200.

	Description	Item#	Each
A.	100-Piece Blue Mounted Stone Set	**305-3000**	**$108.50**
B.	48-Piece Blue Mounted Stone Set	**305-3010**	**58.00**



All prices subject to change without notice.

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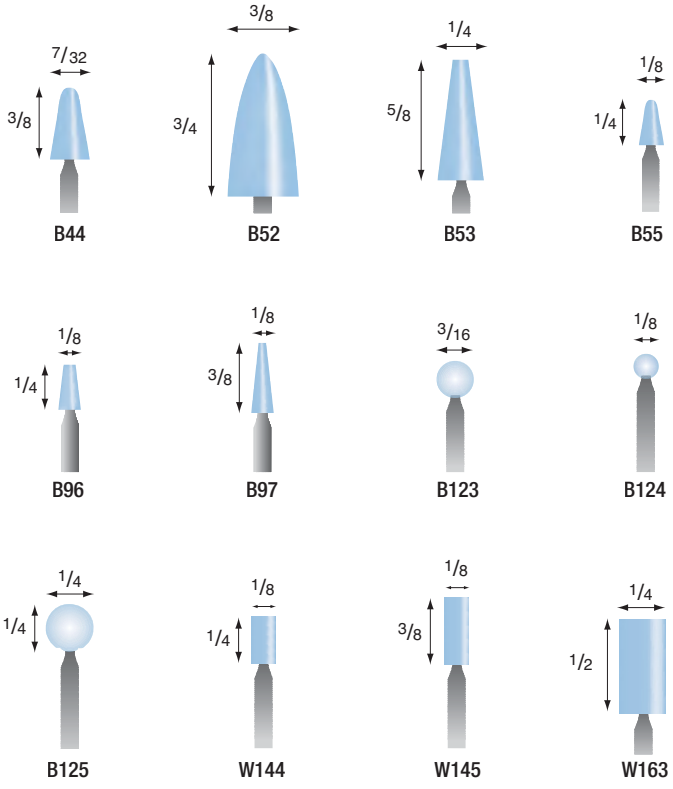
Made in the USA

Light Blue Mounted Stones

Sold individually

These ceramic mix mounted stones incorporate a unique Sol Gel ceramic abrasive. The Sol Gel abrasive, produced by Sol Gel processing, is both hard and tough. It provides exceptional durability and cut rates in grinding mild, high-carbon and stainless steel as well as many nonferrous alloys. Under normal use, cut rate and wheel life are two to three times that of Red and Blue Mounted Stones. Particularly suited for precision grinding. Form and radius holding are greatly increased due to Sol Gel's durability. Light Blue Mounted Stones are extremely tough in all grades, chemically pure and of uniform quality. All are 120 grit. Can be dressed with our Tru-Stone #380-1030 (see p. 51). All have 1½" long plated steel shanks. For recommended speeds, consult the American National Standard Institute for full information. **See warnings on p. 36.**



Shape dimensions shown in inches.

Style	Grit	Shank	Item#	EACH Prices 1-11	12+
B44	120	1/8"	**312-0440**	**$3.25**	**$2.71**
		3mm	**312-3019**	**3.25**	**2.71**
B52	120	1/8"	**312-0520**	**3.25**	**2.71**
		3mm	**312-3020**	**3.25**	**2.71**
B53	120	1/8"	**312-0530**	**3.25**	**2.71**
		3mm	**312-3021**	**3.25**	**2.71**
B55	120	1/8"	**312-0550**	**2.25**	**1.87**
		3mm	**312-3022**	**2.25**	**1.87**
B96	120	1/8"	**312-0960**	**2.25**	**1.87**
		3mm	**312-3023**	**2.25**	**1.87**
B97	120	1/8"	**312-0970**	**3.25**	**2.71**
		3mm	**312-3024**	**3.25**	**2.71**
B123	120	1/8"	**312-1230**	**2.25**	**1.87**
		3mm	**312-3025**	**2.25**	**1.87**
B124	120	1/8"	**312-1240**	**2.25**	**1.87**
		3mm	**312-3026**	**2.25**	**1.87**
B125	120	1/8"	**312-1250**	**3.25**	**2.71**
		3mm	**312-3027**	**3.25**	**2.71**
W144	120	1/8"	**312-1440**	**2.25**	**1.87**
		3mm	**312-3028**	**2.25**	**1.87**
W145	120	1/8"	**312-1450**	**2.25**	**1.87**
		3mm	**312-3029**	**2.25**	**1.87**
W163	120	1/8"	**312-1630**	**2.25**	**1.87**
		3mm	**312-3030**	**2.25**	**1.87**

A

A. Light Blue Mounted Stone Set

Buy the 12-piece assortment of these stones and have one for every application. Includes one each of above shapes. Conveniently packaged in a durable plastic box. Select between 1/8" or 3mm shanks.

Description	Item#	Each
Light Blue Mounted Stone Set, 1/8"	**312-3000**	**$26.75**
Light Blue Mounted Stone Set, 3mm	**312-3031**	**26.75**

B

B. Handy Block – For 1/8" or 3/32" Shanks

An 88-hole block of cured hardwood for organizing burs, needle files, brushes and more. All holes are 1/8" in diameter to accommodate either 1/8" or 3/32" shanks. Block is slanted so user can see all tools at a glance. Stay-put rubber pads keep block from sliding. Weighs 1 lb., 2 oz. Measures 4½" x 6".

Description	Item#	Each
Handy Block	**814-1215**	**$14.95**

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Gesswein®

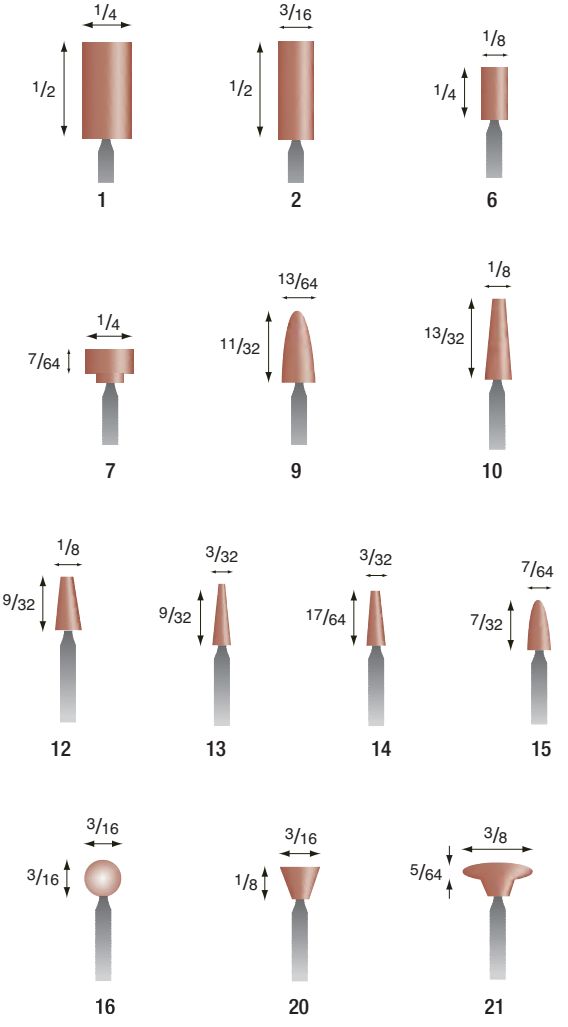
Red Mounted Points 3/32" Shank

Made in the USA

Very fast-cutting, nonloading aluminum oxide stones, easily identified by their reddish-brown color. For fast grinding of medium and hard materials. Ideal for internal grinding of tools, dies and gauges. For recommended speeds, consult the American National Standard Institute for full information on vitrified mounted wheels. Mounted on 3/32" dia. x 1½" long plated steel shanks. Range from 80 to 150 grit. Can be dressed with our Tru-Stone #380-1030 (see p. 51). **See warnings on p. 36.**

Available in plastic packages of 12 and boxes of 72.

Style	Grit	Shank	Qty.	Item#	Pkg./Box Price
1	80	3/32"	Pkg. of 12	**321-0010**	**$14.00**
		3/32"	Box of 72	**319-0010**	**56.00**
2	80	3/32"	Pkg. of 12	**321-0020**	**14.00**
		3/32"	Box of 72	**319-0020**	**56.00**
6	120	3/32"	Pkg. of 12	**321-0060**	**14.00**
		3/32"	Box of 72	**319-0060**	**60.00**
7	120	3/32"	Pkg. of 12	**321-0070**	**14.00**
		3/32"	Box of 72	**319-0070**	**60.00**
9	100	3/32"	Box of 72	**319-0090**	**60.00**
10	100	3/32"	Pkg. of 12	**321-0100**	**14.00**
		3/32"	Box of 72	**319-0100**	**60.00**
12	120	3/32"	Pkg. of 12	**321-0120**	**14.00**
		3/32"	Box of 72	**319-0120**	**60.00**
13	120	3/32"	Pkg. of 12	**321-0130**	**14.00**
		3/32"	Box of 72	**319-0130**	**60.00**
14	120	3/32"	Pkg. of 12	**321-0140**	**13.50**
		3/32"	Box of 72	**319-0140**	**60.00**
15	120	3/32"	Pkg. of 12	**321-0150**	**14.00**
		3/32"	Box of 72	**319-0150**	**60.00**
16	100	3/32"	Pkg. of 12	**321-0160**	**14.00**
		3/32"	Box of 72	**319-0160**	**60.00**
20	150	3/32"	Pkg. of 12	**321-0200**	**14.30**
21	120	3/32"	Pkg. of 12	**321-0210**	**14.00**
		3/32"	Box of 72	**319-0210**	**60.00**



Shape dimensions shown in inches.

A. Rotating Bur Holders – Choose between two styles

Rotating Bur and Tool Holder accepts up to 112 burs or tools. Features ball bearings for smooth action. Includes 92 holes for tools with 3/32" or 1/8" shanks, 13 holes for tools with 1/4" shanks, 7 holes for 1/16" to 5/32" drill bits and 2¾" dia. x 3"H center cup for hand tools such as files, screwdrivers and more. Measures 7" dia. x 4"H.

Rotating Bur Holder Universal has 45 holes for tools with 1/16" shanks, 69 two-step holes for tools with 3/32" or 1/8" shanks and 12 holes for tools with 1/4" shanks. Measure 7" dia. x 4"H.

	Description	Item#	Each
A.	Rotating Bur and Tool Holder	**850-0006**	**$16.55**
	Rotating Bur Holder, Universal	**850-0004**	**16.55**

A

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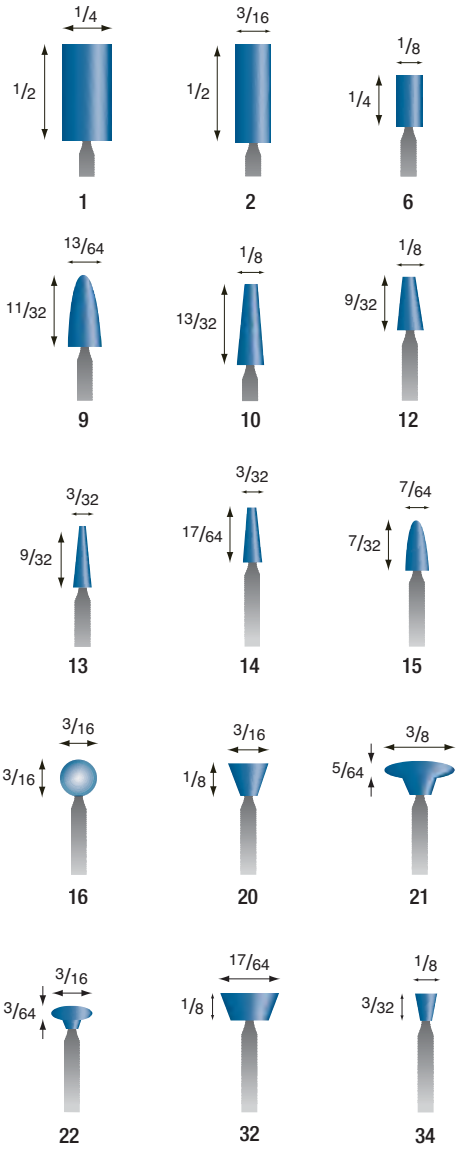
Gesswein®

Blue Mounted Points 3/32" Shank

Made in the USA

Hard blue aluminum oxide stones which hold their shapes, cut well and leave a smooth surface. Recommended for use on hardened steel. For recommended speeds, consult the American National Standard Institute for full information on vitrified mounted wheels. Mounted on 3/32" dia. x 1½" long plated steel shanks. All are 120 grit. Can be dressed with our Tru-Stone #380-1030 (see p. 51). For safety requirements please see below. **See warnings below.**

Available in plastic packages of 12 and boxes of 72.



Shape dimensions shown in inches.

Style	Grit	Shank	Qty.	Item#	Pkg./Box Price
1	120	3/32"	Pkg. of 12	**316-0010**	**$15.00**
		3/32"	Box of 72	**314-0010**	**65.25**
2	120	3/32"	Pkg. of 12	**316-0020**	**15.00**
		3/32"	Box of 72	**314-0020**	**65.25**
6	120	3/32"	Pkg. of 12	**316-0060**	**15.00**
		3/32"	Box of 72	**314-0060**	**65.25**
9	120	3/32"	Pkg. of 12	**316-0090**	**15.00**
		3/32"	Box of 72	**314-0090**	**65.25**
10	120	3/32"	Pkg. of 12	**316-0100**	**15.00**
		3/32"	Box of 72	**314-0100**	**65.25**
12	120	3/32"	Pkg. of 12	**316-0120**	**15.00**
		3/32"	Box of 72	**314-0120**	**65.25**
13	120	3/32"	Pkg. of 12	**316-0130**	**15.00**
		3/32"	Box of 72	**314-0130**	**65.25**
14	120	3/32"	Pkg. of 12	**316-0140**	**15.00**
		3/32"	Box of 72	**314-0140**	**65.25**
15	120	3/32"	Pkg. of 12	**316-0150**	**15.00**
		3/32"	Box of 72	**314-0150**	**65.25**
16	120	3/32"	Pkg. of 12	**316-0160**	**15.00**
		3/32"	Box of 72	**314-0160**	**65.25**
20	120	3/32"	Pkg. of 12	**316-0200**	**15.00**
		3/32"	Box of 72	**314-0200**	**65.25**
21	120	3/32"	Pkg. of 12	**316-0210**	**18.25**
		3/32"	Box of 72	**314-0210**	**79.25**
22	120	3/32"	Pkg. of 12	**316-0220**	**18.25**
		3/32"	Box of 72	**314-0220**	**74.00**
32	120	3/32"	Pkg. of 12	**316-0320**	**18.25**
		3/32"	Box of 72	**314-0320**	**79.25**
34	120	3/32"	Pkg. of 12	**316-0340**	**18.25**
		3/32"	Box of 72	**314-0340**	**79.25**

Warning: For recommended speeds, consult the American National Standards Institute for full information on vitrified mounted wheels. Before using any abrasive product, follow all safe operating guidelines with respect to eye protection, hand protection, hearing protection and respiratory protection. Also read the Material Safety Data Sheet to be aware of any inherent hazards or cautions.

Important: Abrasive stones break down during mold and die polishing, grinding, tool sharpening, and dressing of cutting & grinding wheels. The resulting dust is classified by OSHA as inert or nuisance dust. Please consult the Material Safety Data Sheet for each stone; data provided therein pertains primarily to the dust produced during and after use. Please note that hazards may change when abrasive stones are used in conjunction with solvents, cutting fluids or other chemicals. For more complete information, consult the Material Safety Data Sheets of chemical products used with abrasive stone products.

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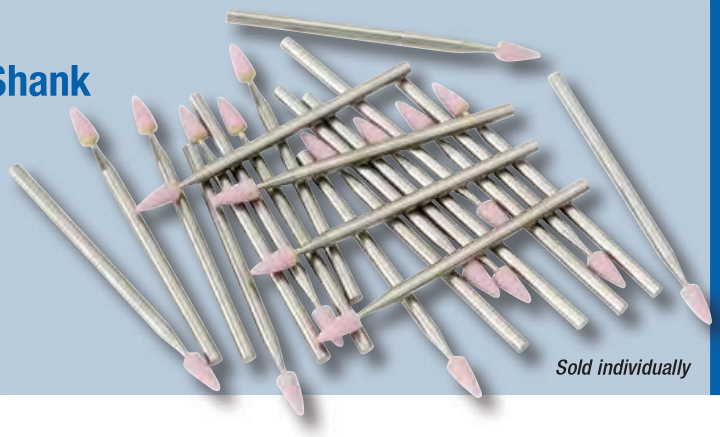
Busch® Pink Polishing Points 3/32" Shank

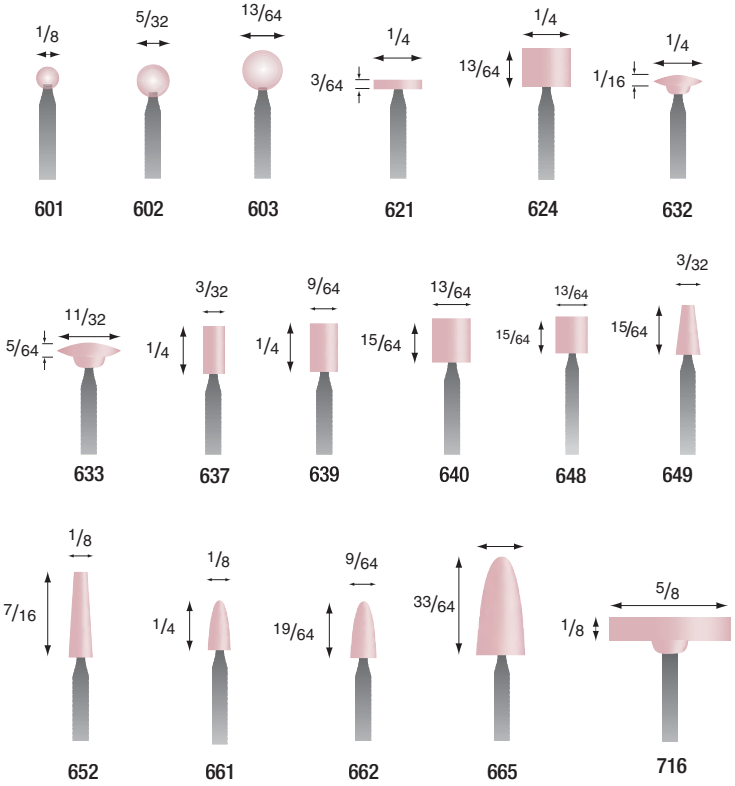
Made of genuine corundum, these points are recommended for use on harder metals. For recommended speeds, consult the American National Standard Institute for full information on vitrified mounted wheels. Mounted on 3/32" dia. x 1½"L plated steel shanks. All are medium grit. Can be dressed with our Tru-Stone #380-1030 (see below).

Made in Germany.



Sold individually

Style	Grit	Item#	EACH Prices 1-5	6-71	72+
601	Med.	**330-1324**	**$2.85**	**$2.42**	**$ 2.28**
602	Med.	**330-1325**	**2.85**	**2.42**	**2.28**
603	Med.	**330-1330**	**2.85**	**2.42**	**2.28**
621	Med.	**330-1340**	**2.85**	**2.42**	**2.28**
624	Med.	**330-1342**	**2.85**	**2.42**	**2.28**
632	Med.	**330-1345**	**2.85**	**2.42**	**2.28**
633	Med.	**330-1346**	**2.85**	**2.42**	**2.28**
637	Med.	**330-1350**	**2.85**	**2.42**	**2.28**
639	Med.	**330-1355**	**2.85**	**2.42**	**2.28**
640	Med.	**330-1360**	**2.85**	**2.42**	**2.28**
648	Med.	**330-1364**	**2.85**	**2.42**	**2.28**
649	Med.	**330-1365**	**2.85**	**2.42**	**2.28**
652	Med.	**330-1370**	**2.85**	**2.42**	**2.28**
661	Med.	**330-1375**	**2.85**	**2.42**	**2.28**
662	Med.	**330-1380**	**2.85**	**2.42**	**2.28**
665	Med.	**330-1382**	**2.85**	**2.42**	**2.28**
716	Med.	**330-1395**	**4.32**	**3.67**	**3.46**



Shape dimensions shown in inches.

A. Rotating Bur Holder – 3/32" Shank

Handy tiered holder rotates to keep tools within easy reach. Holds 150 burs or tools. All holes are 3/32" in diameter to accommodate 3/32" shanks. Weighs 12 oz. Measures 4"H x 6" dia. at base.

Description	Item#	Each
Rotating Bur Holder	**124-4720**	**$12.75**

A

B. Tru-Stone

For dressing and shaping mounted stones and abrasive wheels

A very hard and coarse grit silicon carbide stone with four different sized half-round grooves measuring 1/16", 1/8", 3/16"" and 1/4" on one side. Quickly reshapes and resurfaces abrasive stones to like-new condition. Measures 3½"L x 1⅜"W x 9/16"H.

Description	Item#	EACH Prices 1-9	10+
Tru-Stone	**380-1030**	**$5.80**	**$4.64**

B

All prices subject to change without notice.

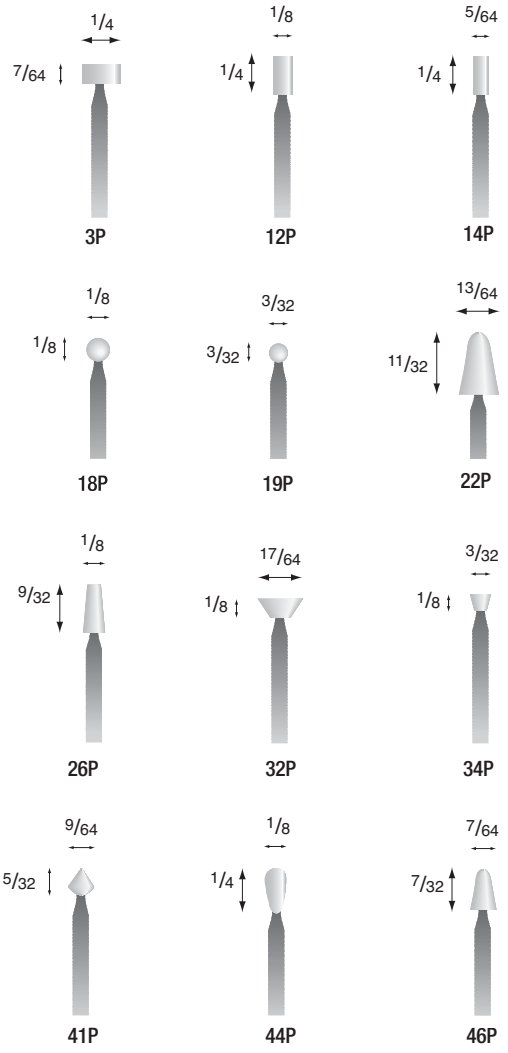
Gesswein® White Polishing Points 3/32" Shank

Formulated from 400 grit (extremely fine) white aluminum oxide in a soft vitrified bond, these points can be used on glass, porcelain, metal or stone. Produce a high finish. For recommended speeds, consult the American National Standard Institute for full information on vitrified mounted wheels. Mounted on 3/32" dia. x 1½"L plated steel shanks. Can be dressed with our Tru-Stone #380-1030 (see p. 51).

Before using any abrasive product, follow all safe operating guidelines with respect to eye protection, hand protection, hearing protection and respiratory protection. Also read the Material Safety Data Sheet (MSDS) to be aware of any inherent hazards or cautions.

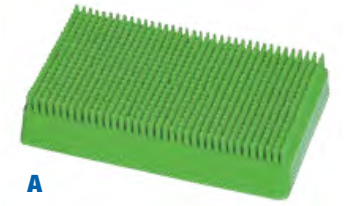
Available in plastic packages of 12 and boxes of 72.

Made in the USA



Shape dimensions shown in inches.

Style	Grit	Shank	Qty.	Item#	Pkg./Box Price
3P	400	3/32"	Pkg. of 12	**326-0030**	**$21.50**
		3/32"	Box of 72	**324-0030**	**93.00**
12P	400	3/32"	Pkg. of 12	**326-0120**	**21.50**
		3/32"	Box of 72	**324-0120**	**93.00**
14P	400	3/32"	Pkg. of 12	**326-0140**	**21.50**
		3/32"	Box of 72	**324-0140**	**93.00**
18P	400	3/32"	Pkg. of 12	**326-0180**	**21.50**
		3/32"	Box of 72	**324-0180**	**93.00**
19P	400	3/32"	Pkg. of 12	**326-0190**	**21.50**
		3/32"	Box of 72	**324-0190**	**93.00**
22P	400	3/32"	Pkg. of 12	**326-0220**	**21.50**
		3/32"	Box of 72	**324-0220**	**93.00**
26P	400	3/32"	Pkg. of 12	**326-0260**	**22.00**
		3/32"	Box of 72	**324-0260**	**93.00**
32P	400	3/32"	Pkg. of 12	**326-0320**	**21.50**
		3/32"	Box of 72	**324-0320**	**93.00**
34P	400	3/32"	Pkg. of 12	**326-0340**	**21.50**
		3/32"	Box of 72	**324-0340**	**87.00**
41P	400	3/32"	Pkg. of 12	**326-0410**	**21.50**
		3/32"	Box of 72	**324-0410**	**87.00**
44P	400	3/32"	Pkg. of 12	**326-0440**	**21.50**
		3/32"	Box of 72	**324-0440**	**93.00**
46P	400	3/32"	Pkg. of 12	**326-0460**	**21.50**
		3/32"	Box of 72	**324-0460**	**93.00**



A

A. Plastic Bur Holder – For 3/32" Shanks

Accepts up to 100 burs or tools with 3/32" shanks. Supplied with tilt stand. Measures 5" x 3". Color may vary.

Description	Item#	EACH Prices 1-2	3+
Plastic Bur Holder	**840-0007**	**$4.95**	**$3.96**

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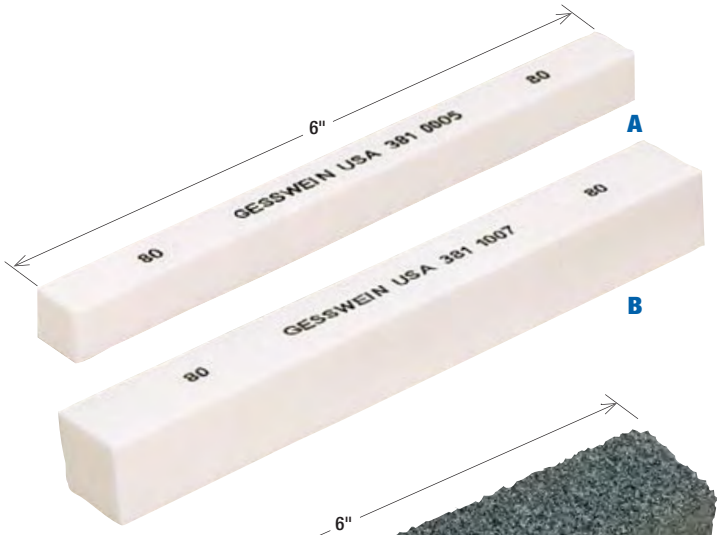
A, B Type VS Dressing Stones for Diamond Wheels

Made of premium quality white aluminum oxide. Very soft stones used for cleaning diamond wheels. Stones are evenly bonded and have precise grits.

	Grit	Dimensions	Item#	EACH Prices (6pc) 6-18	24+
A.	80	6" x ½" x ½"	**381-0005**	**$2.85**	**$2.57**
	120	6" x ½" x ½"	**381-0105**	**2.85**	**2.57**
	150	6" x ½" x ½"	**381-0115**	**2.85**	**2.57**
	220	6" x ½" x ½"	**381-0205**	**2.85**	**2.57**
	320	6" x ½" x ½"	**381-0305**	**3.90**	**3.51**
B.	80	6" x ¾" x ¾"	**381-1007**	**4.50**	**4.05**
	120	6" x ¾" x ¾"	**381-1107**	**4.50**	**4.05**
	150	6" x ¾" x ¾"	**381-1117**	**4.50**	**4.05**
	220	6" x ¾" x ¾"	**381-1207**	**4.50**	**4.05**
	320	6" x ¾" x ¾"	**381-1307**	**6.90**	**6.21**

(6pc) *Six-piece minimum; please order in multiples of six.*

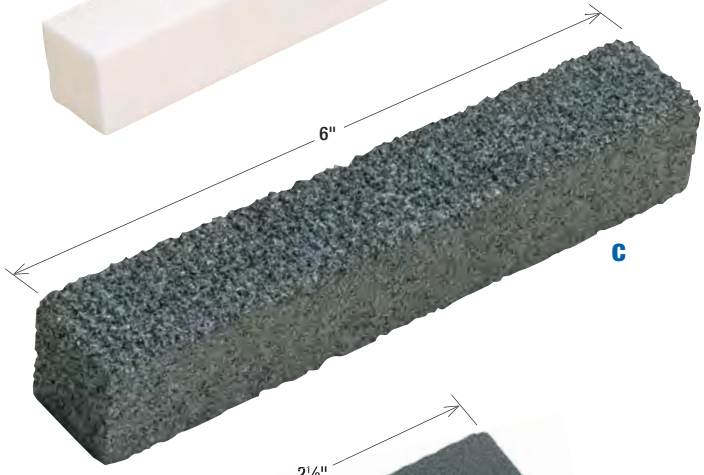


A
B

C. Dressing Stone – Coarse grit

A very hard, 20 grit stone that will quickly smooth out and take off irregular edges from almost any grinding wheel or MX Lap. Also excellent for shaping Bear-Tex Wheels (see p. 55). Measures 6" x 1" square.

Description	Grit	Item#	Each
Coarse Dressing Stone	20	**380-1010**	**$14.60**



C

D. Dressing Stone – Medium grit

A very hard, 150 grit stone in a convenient shape for dressing grinding wheels, G-Flex and GMX wheels (see pp. 96-99). Measures 2½"L x 1½"W x ½"H.

Description	Grit	Item#	Each
Medium Dressing Stone	150	**380-1020**	**$4.05**

D

E. Norton® Norbide® Dressing Stick

The Norbide Dressing Stick is used to economically dress, shape and true vitrified grinding wheels. It's also the choice for "roughing in" a shape prior to diamond trueing precision grinding wheels. Measures 3"L x ½"W x ¼"H.

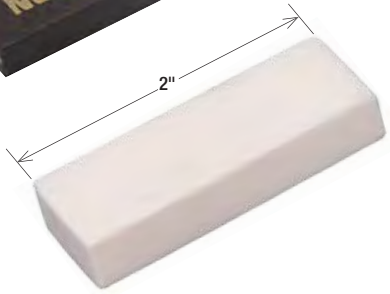
Description	Item#	Each
Norbide Dressing Stick	**380-1035**	**$67.00**

E

F. Wet Stick Diamond Dresser

Use this dressing stone with water for cleaning diamond points. Measures 2"L x ¾"W x ½" thick.

Description	Item#	Each
Wet Stick	**380-1022**	**$2.35**

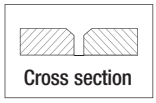


F

G. Diamond Impregnated Dressing Stone

Has a concave center hole for forming a point on polishing rods. Measures ¾" dia. x ⅛" thick.

Description	Item#	Each
Dressing Stone	**145-1240**	**$5.40**



G

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NORTON

A

A. Norton® 5SG Blue Ceramic Grinding Wheel

For precision grinding

Straight grinding wheel, type 1, consists of ceramic aluminum oxide in a vitrified bond, 60 grit, medium hardness. Ceramic abrasive wears slow, lasts long and grinds fast. During grinding, the grain resharpens itself, continuously exposing fresh cutting points. For iron, high-speed steel and tool steels, 50 to 68Rc, 300 and 400 series stainless steels, and soft steels 30 to 45Rc. Maximum RPM, 3600. Cannot be used on a tapered spindle, must use on arbor (see p. 400).

Dia. x Thick x AH	Grit Hardness	Item#	EACH Prices 1-9	10-29
7" x ½" x 1¼"	60/J	**245-3272**	**$87.00**	**$69.60**

B

B. Norton® White Aluminum Oxide Grinding Wheels

For light grinding

For light grinding of all kinds. Particularly good on hard, heat-sensitive materials such as high-speed steel and cast-alloy tools. Hardness is rated from softest (I) to hardest (K). Cannot be used on a tapered spindle, must use on arbor (see p. 400).

Dia. x Thick x AH	Grit Hardness	Item#	EACH Prices 1-9	10+
4" x ½" x ½"	60/K	**845-0054**	**$20.05**	**$12.03**
	100/K	**845-0100**	**20.05**	**12.03**
7" x ¼" x 1¼"	60/J	**245-3080**	**29.75**	**23.80**
	80/J	**245-3085**	**29.75**	**23.80**
	100/J	**245-3090**	**29.75**	**23.80**
	120/K	**245-3095**	**29.75**	**23.80**
	150/K	**245-3100**	**51.85**	**41.48**
7" x ½" x 1¼"	46/I	**245-3110**	**45.00**	**36.00**
	60/J	**245-3120**	**46.80**	**37.44**
8" x ½" x 1¼"	60/K	**245-3150**	**49.00**	**39.20**

C

C. Norton® 32A Aluminum Oxide Grinding Wheels

For medium to heavy stock removal

Sharp monocrystalline aluminum oxide grain. Outstanding form holding. For moderate to heavy grinding of tool steels, including tough alloys. Allow exceptionally fast, cool cutting. Requires minimum dressing. Cannot be used on a tapered spindle, must use on arbor (see p. 400).

Dia. x Thick x AH	Grit Hardness	Item#	EACH Prices 1-9	10-29
7" x ¼" x 1¼"	80/I	**245-3195**	**$36.25**	**$29.00**
7" x ½" x 1¼"	46/K	**245-3200**	**58.00**	**46.40**
	60/I	**245-3205**	**58.00**	**46.40**

Before using any abrasive product, follow all safe operating guidelines with respect to eye protection, hand protection, hearing protection and respiratory protection. Also read the Material Safety Data Sheet (MSDS) to be aware of any inherent hazards or cautions.

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A, B Norton® Bear-Tex® Wheels

For quick removal of marks, scratches and surface imperfections. Also great for producing a consistent satin finish. Made of a cushion-type nylon web impregnated with silicon carbide abrasive. Bear-Tex does not load or heat up. The 220 grit fine wheel is our most popular; the other grits are for faster finishing.

Dia. x Thick x AH	Grit	Max. RPM	Item#	EACH Prices 1-19	20+
A. 3" x ¾" x ¼"	150	8,000	**845-0240**	**$12.65**	**$10.75**
3" x ¾" x ¼"	220	8,000	**845-0250**	**11.25**	**9.56**

Dia. x Thick x AH	Grit	Max. RPM	Item#	EACH Prices 1-2	3+
6" x 1" x 1" *	120	6,000	**845-0261**	**$93.25**	**$83.93**
B. 6" x 1" x 1" *	180	6,000	**845-0259**	**93.25**	**83.93**

**Comes with ½" bushing.*

C. 3M™ Scrubber™ Light Deburring Wheel

Clean, safe and economical wheel for removing sprues, parting lines, firescale and oxidation. Produces a satin finish on gold, sterling silver, copper, brass and stainless steel. Silicon carbide. Use #145-1931 to mount on tapered spindles.

Description	Dia. x Thick x AH	Max. RPM	Item#	Each
Fine	6" x 1" x 1"	6,000	**845-1089**	**$73.55**
Adapter for 1"AH		6,000	**145-1931**	**5.80**

D. 3M™ Scotch-Brite™ EXL Wheel

Excellent choice for deburring and finishing. Medium grade aluminum oxide. Mount on an arbor (see p. 400) for use on polishing motor. Use #145-1921 (see below) to use with a tapered spindle.

Description	Dia. x Thick x AH	Max. RPM	Item#	EACH Prices 1-3	4+
Medium	6" x ½" x ½"	4,500	**845-0305**	**$38.05**	**$34.25**

E. 3M™ Scotch-Brite™ High-Strength Discs

Highly conformable aluminum oxide discs. Create a beautiful satin finish (stack two or three together for satin finishing). Also work well for light deburring, cleaning and finishing. Available in medium and very-fine grades. Mount on an arbor (see p. 400) for use with polishing motors. Use 145-1921 to use with tapered spindles.

Description	Dia. x Thick x AH	Max. RPM	Item#	Each
Medium	6" x ¼" x ½"	4,000	**108-8110**	**$4.98**
Very-Fine	6" x ¼" x ½"	4,000	**108-8115**	**2.45**
Adapter for ½" AH			**145-1921**	**3.10**

F. GP Plus™ and LDW Convolute Wheels

Ideal for a variety of deburring, blending, finishing and polishing applications. Consist of fine silicon carbide embedded in nonwoven material wound around a core producing a cushion effect for controlled, fast cutting and consistent, uniform finishing. Easy to shape and dress. Can be used with water or water-soluble oil if desired. Choose GP Plus (high-density wheels, aggressive) for the toughest jobs and LDW (low-density wheels) for finer, more delicate work. Combine with flanges (see below) and appropriate arbor (see p. 400) to mount on your polishing motor.

Type	Grade*	6" x ½" x 1" AH	Each	6" x 1" x 1" AH	Each
GP Plus	9SF	**845-0069**	**$55.75**	**845-0070**	**$75.95**
GP Plus	8SF	**845-0067**	**53.65**	**845-0068**	**75.95**
LDW	7SF	**845-0065**	**53.20**	**845-0066**	**77.75**

Description	1"AH to ½"AH	1"AH to ⅜"AH	Pkg. of 2
Flanges for converting	**277-0089**	**277-0091**	**$5.50**

G. Rub-Out Stick and Holder

For touch-ups and removal of light scratches on polished surfaces. Made of flexible rubber with silicon carbide abrasive. Holder gives support and gripping power. Stick can be exposed or withdrawn as desired and is easily dressed to the best shape for the job. Also removes rust, heat marks and stains while leaving a polished surface. Measures 6"L x ⅜" dia.

Description	Fine Grit	Extra-Fine Grit	SET Prices* 1-4	5+
Stick and Holder	**145-1300**	**145-1302**	**$19.50**	**$17.55**
Refill Stick	**145-1306**	**145-1308**	**7.20**	**6.48**

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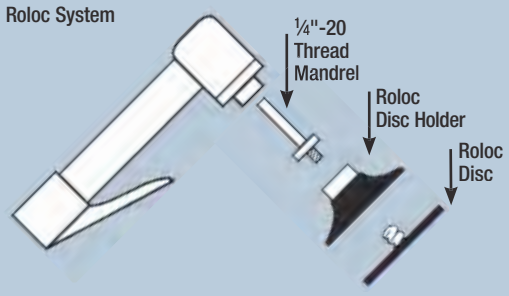
3M™ Roloc™ Discs

3M Roloc discs allow fast and efficient deburring, blending, polishing and finishing on all types of metal surfaces. They resist loading even under severe operating conditions. The Roloc design makes changing discs easy: the threaded male button on the back of each disc allows firm mounting to Roloc Disc Holder. Lock securely in place with a half-twist, or remove with half-twist in opposite direction. Discs are color-coded or have color-coded button for easy grit identification. Use with right-angle grinders.

Before using any abrasive product, follow all safe operating guidelines with respect to eye protection, hand protection, hearing protection and respiratory protection. Also read the Material Safety Data Sheet (MSDS) to be aware of any inherent hazards or cautions.



A

A. 3M™ Roloc™ Regalite™ Discs

Made of 3M Cubitron and premium aluminum oxide grains resin-bonded onto heavy cloth backing. Mount on Roloc Disc Holders (see below).

Dia.	Max. RPM	60 Grit (Orange) Item#	80 Grit (Yellow) Item#	120 Grit (White) Item#	Pkg. of 50* 1-9	10+
1"	30,000	**105-3000**	–	–	**$21.95**	**$19.76**
1½"	30,000	–	**105-3020**	**105-3025**	**26.40**	**23.76**
2"	25,000**	**105-3030**	**105-3035**	**105-3040**	**43.50**	**39.15**

**Quantity discount for orders of one item number only; not assorted.*
***Max. operating speed of 20,000rpm when used with the soft Roloc Disc Holder.*

B

B. 3M™ Roloc™ Scotch-Brite™ Discs

These discs remove burs with ease, leaving metal surfaces ready for final finishing. Can also be used to remove light rust, oxides and coatings. Mount on Roloc Disc Holders (see below).

Dia.	Max. RPM	Coarse Grit (Brown) Item#	Medium Grit (Maroon) Item#	Very Fine Grit (Blue) Item#	Pkg. of 10* 1-4	5-19	20+
1"	30,000	**845-1152**	**845-1151**	**845-1150**	**$8.46**	**$8.04**	**$7.61**
1½"	30,000	**845-1155**	**845-1154**	**845-1153**	**8.46**	**8.04**	**7.61**
2"	25,000**	**845-1158**	**845-1157**	**845-1156**	**12.35**	**11.73**	**11.12**

**Quantity discount for orders of one item number only; not assorted.*
***Max. operating speed of 20,000rpm when used with the soft Roloc Disc Holder.*

C

C. 3M™ Roloc™ Radial Bristle Discs

Use to remove surface contaminants, debur, blend and clean. Flexible bristles conform to surfaces and clean without damaging base material. Ideal for tight and awkward areas such as grooves and crevices. Use with 1" Roloc Disc Holder #105-3070 (see below).

Dia.	Trim Length	Max. RPM	50 Grit (Green) Item#	80 Grit (Yellow) Item#	120 Grit (White) Item#	EACH Prices* 1-9	10+
3"	1"	25,000	**145-1895**	**145-1900**	**145-1901**	**$8.35**	**$7.52**

**Quantity discount for orders of one item number only; not assorted.*

D

E

F

G

D-G 3M™ Roloc™ Disc Holders

Rubber holders available in corresponding diameters and varying degrees of hardness for a variety of grinding and surface finishing applications. Harder holders cause discs to act more aggressively. Use soft pads for contour work. Holders are female threaded to receive any standard ¼"-20 thread mandrel or our #105-3110. For use with Roloc discs (see above).

Dia.	Hardness	Max. RPM	Item#	EACH Prices* 1-4	5+
D. 1"	Medium	30,000	**105-3070**	**$12.29**	**$11.68**
E. 1½"	Hard	30,000	**105-3085**	**14.65**	**13.92**
	Medium	30,000	**105-3080**	**14.65**	**13.92**
	Soft	30,000	**105-3075**	**15.75**	**14.96**
F. 2"	X-Hard	25,000	**105-3105**	**18.70**	**17.77**
	Hard	25,000	**105-3100**	**15.65**	**14.87**
	Medium	25,000	**105-3095**	**15.65**	**14.87**
	Soft	20,000	**105-3090**	**16.75**	**15.91**
G. Disc Holder Mandrel, ¼"shank			**105-3110**	**2.65**	**2.52**

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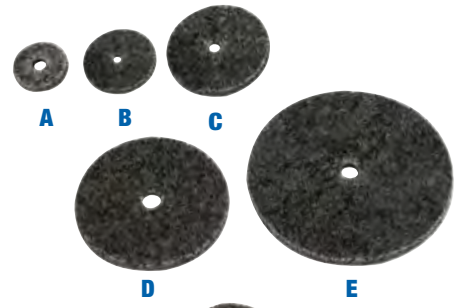
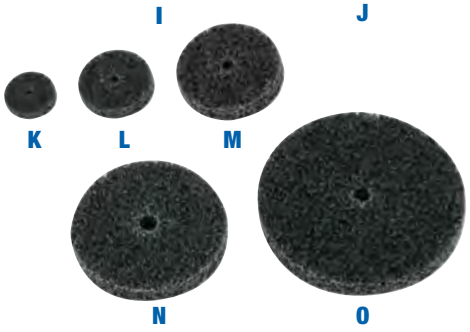
A-O 3M™ Scotch-Brite™ Small EXL Unitized Wheels

For deburring, blending parting lines, removing flash, cleaning and finishing on all metal alloys, as well as many plastics and composites. Great for cleanup prior to and after soldering and welding. Produce fine finishes on tooled pieces, aerospace, automotive and electronic components as well as medical instruments. Long-lasting to help reduce finishing operation costs. Synthetic fiber and resin construction makes a semi-resilient wheel that follows contours well and eliminates undercutting and gouging. All wheels are cool-running and resist heat buildup. Available in three color-coded grits: coarse (orange), medium (red) and fine (purple). See pp. 460-461 for mandrels.



Dia. x W x AH	Max. RPM	Item#	EACH Prices 1-9	10-49
Orange EXL – Coarse Grit (hard density AlO)				
A. 1/2" x 1/8" x 1/8"	40,100	**845-1056**	**$1.67**	**$1.59**
B. 3/4" x 1/8" x 1/8"	40,100	**845-1057**	**1.96**	**1.86**
C. 1" x 1/8" x 1/8"	35,100	**845-1060**	**2.88**	**2.74**
D. 1 1/2" x 1/8" x 3/16"	30,100	**845-1069**	**4.07**	**3.87**
E. 2" x 1/8" x 3/16"	22,100	**845-1073**	**4.80**	**4.56**
Red EXL – Medium Grit (medium density AlO)				
F. 1/2" x 1/8" x 1/8"	40,100	**845-1055**	**$1.57**	**$1.49**
G. 3/4" x 1/8" x 1/8"	40,100	**845-1058**	**1.73**	**1.64**
H. 1" x 1/8" x 1/8"	35,100	**845-1059**	**2.67**	**2.54**
I. 1 1/2" x 1/8" x 3/16"	30,100	**845-1068**	**3.66**	**3.48**
J. 2" x 1/8" x 3/16"	22,100	**845-1072**	**4.25**	**4.04**
Purple EXL – Fine (soft density SiC)				
K. 1/2" x 1/4" x 1/8"	35,100	**845-1062**	**$1.65**	**$1.57**
L. 3/4" x 1/4" x 1/8"	35,100	**845-1063**	**2.05**	**1.95**
M. 1" x 1/4" x 1/8"	30,100	**845-1061***	**2.60**	**2.47**
N. 1 1/2" x 1/4" x 3/16"	20,100	**845-1070**	**3.66**	**3.48**
O. 2" x 1/4" x 3/16"	16,100	**845-1074**	**4.38**	**4.16**



Description	Item#	Each
Mandrel for 3/16"AH wheels, 1/4" shank	**840-3300**	**$32.35**

**Most popular*

P. 3M™ Scotch-Brite™ EXL Unitized Wheel Set

This 29-piece set includes 26 wheels from 1/2" to 2" in diameter (eight 1/2", six 1", six 1 1/2" and six 2" wheels) and two 1/8" shank mandrels.

Description	Item#	Each
29-Piece Set	**845-1054**	**$66.70**

Q. 3M™ Scotch-Brite™ Fiber Discs

Made of 3M Scotch-Brite nonwoven fiber material. Feature reinforced Velcro-type webbed backing for quick attachment to the unique, convenient Fiber Disc Holders (see below), which also have Velcro-type backing. Excellent for right-angle handpieces and grinders.

Dia.	Abrasive	Alum.	Microfinish Range Generated Steel	Grit	Color	Item#	Pkg. of 10
1 1/2"	Aluminum oxide	56-68	16-22	Coarse	Brown	**108-8015**	**$6.75**
	Aluminum oxide	28-37	10-16	Medium	Maroon	**108-8010**	**6.00**
	Aluminum oxide	22-28	9-12	Very fine	Blue	**108-8005**	**6.00**
	Silicon carbide	11-15	4-6	Super fine	Gray	**108-8000**	**6.00**
2"	Aluminum oxide	56-68	16-22	Coarse	Brown	**108-8035**	**9.60**
	Aluminum oxide	28-37	10-16	Medium	Maroon	**108-8030**	**9.45**
	Aluminum oxide	22-28	9-12	Very fine	Blue	**108-8025**	**8.58**
	Silicon carbide	11-15	4-6	Super fine	Gray	**108-8020**	**9.30**
3"	Aluminum oxide	56-68	16-22	Coarse	Brown	**108-8055**	**18.89**
	Aluminum oxide	28-37	10-16	Medium	Maroon	**108-8050**	**16.63**
	Aluminum oxide	22-28	9-12	Very fine	Blue	**108-8045**	**16.63**
	Silicon carbide	11-15	4-6	Super fine	Gray	**108-8040**	**18.10**

R. 3M™ Scotch-Brite™ Fiber Disc Holders – 1/4" Shank

For use with 3M Scotch-Brite Fiber Discs only (see above). All have 1/4" shank.

Holder	Item#	Each
For 1 1/2" Fiber Disc	**108-8060**	**$4.55**
For 2" Fiber Disc	**108-8065**	**5.19**
For 3" Fiber Disc	**108-8070**	**6.04**

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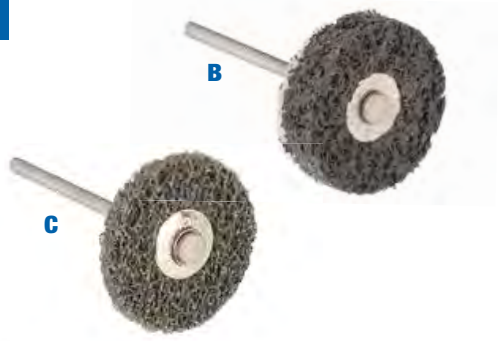
See pages 59, 71 and 144 for more Flap Wheels.

A. Fiber Flap Wheel – 1/4" Shank

Made of resilient aluminum oxide material. These wheels replace hand pads and reduce the need for finishing operations. For light deburring, polishing and satin finishing steel, nonferrous metal and wood. Ideal for surface contaminant removal. Maximum speed: 20,000rpm. Mounted on 1/4" shanks. Made in USA.

Dia. x Thickness	Coarse	Medium	Fine	Very Fine	EACH Prices* 1-2	3+
2" x 1"	**108-0040**	**108-0050**	**108-0060**	**108-0070**	**$11.25**	**$10.69**
3" x 1"	**108-0140**	**108-0150**	**108-0160**	**108-0170**	**13.60**	**12.92**

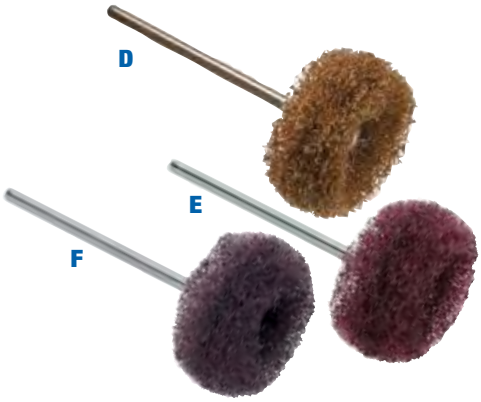
Quantity discount for orders of one item number only; not assorted.



B. Mounted Hard FR Fiber Wheel – 3/32" Shank

Ideal for stock removal, this wheel has only slight resilience and cuts fast. Made of silicon carbide. Measures 1" dia. x 1/4" thick. 3/32" stainless steel shank. Imported.

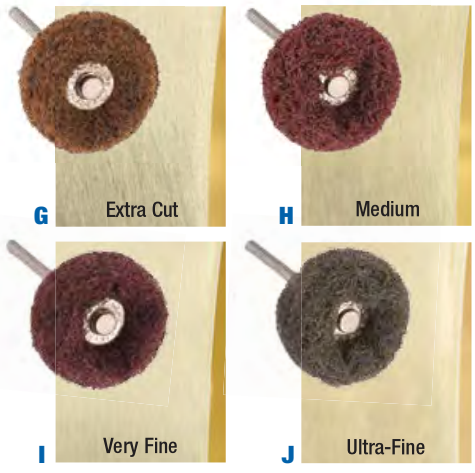
Description	Dia. x Thickness	Item#	EACH Prices 1-11	12+
FR Fiber Wheel	1" x 1/4"	**288-2272**	**$3.65**	**$3.29**



C. Mounted Flexible SLP Fiber Wheel – 3/32" Shank

A flexible yet firm unitized abrasive mounted wheel made of 180 grit pure alumina. Produces a fine, smooth finish. Measures 7/8" dia. x 1/8" thick. 3/32" stainless steel shank. Imported.

Description	Dia. x Thickness	Item#	EACH Prices 1-11	12+
SLP Fiber Wheel	7/8" x 1/8"	**288-2276**	**$1.70**	**$1.53**



D-F 3M™ Scotch-Brite™ Wheels – 2 Ply, 3/32" Shank

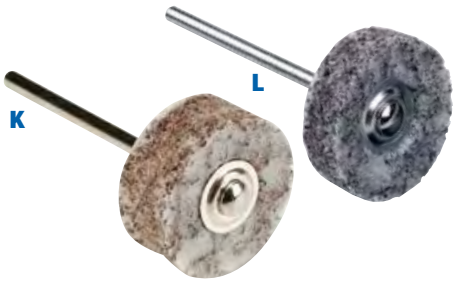
Soft double ply Scotch-Brite easily conforms to surface contours. Removes a small amount of metal while producing a satin finish. Measure approximately 7/8" dia. on 3/32" stainless steel shank. Maximum speed: 10,000rpm. Made in Germany.

	Description	Abrasive	Color	Item#	EACH Prices 1-11	12+
D.	Coarse	AlO	Brown	**288-2280**	**$1.55**	**$1.40**
E.	Medium/Fine	AlO	Red	**288-2282**	**1.55**	**1.40**
F.	Fine	AlO	Violet	**288-2284**	**1.55**	**1.40**

G-J Mounted Satin Finish Wheels – 3 Ply, 3/32" Shank

Use these extra-thick wheels to create the exact degree of satin finish you want, from the soft and subtle texture of Extra Cut to the lustrous glow of Ultra-Fine. Made of dense-weave fiber for a uniform, nondirectional finish. Last much longer than conventional satin finish buffs. Measure approx. 7/8" dia. x 5/8" thick with 3/32" shank. To try all four grits, purchase our money-saving eight-piece intro pack. Imported.

	Description	Abrasive	Color	Item#	EACH Prices 1-11	12+
G.	Extra Cut	AlO	Brown	**288-2260**	**$1.35**	**$1.22**
H.	Medium	AlO	Red	**288-2262**	**1.35**	**1.22**
I.	Very Fine	AlO	Dark Red	**288-2264**	**1.35**	**1.22**
J.	Ultra-Fine	SiC	Gray	**288-2266**	**1.35**	**1.22**
	8-Piece Pack (two of each grit)			**288-2270**	**8.95**	**-**



K, L Compressed Fiber Wheels – 3/32" Shank

Fibers are compressed and bonded with aluminum oxide to make a firm, dense long lasting wheel with some flexibility. Creates a beautiful scratch finish that contrasts well with highly polished areas. Fine Wheel creates a very soft satin finish, Coarse a more distinct scratch. Recommended working speed: 5,000rpm. Made in Germany.

	Description	Dia. x Thickness	Item#	EACH Prices 1-11	12+
K.	Coarse	7/8" x 3/8"	**288-2250**	**$4.95**	**$4.46**
L.	Fine	7/8" x 3/8"	**288-2251**	**4.95**	**4.46**

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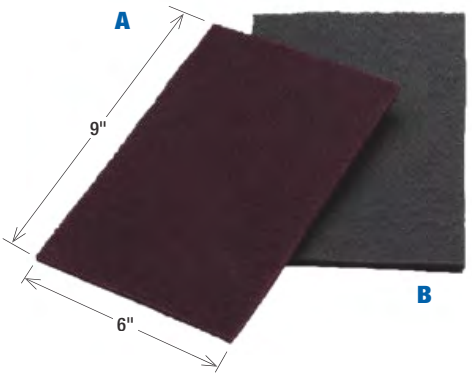
A, B Norton® Bear-Tex® Hand Pads

Made of loose nonwoven fiber with abrasive grain mixed throughout. Can be easily cut to desired size. For cleaning, scuffing, deburring or finishing surfaces by hand. Available in two grades. Measure approximately 6"L x 9"W x 3/8"H. Sold individually or in boxes of 20. Cut to fit pad holder 108-7462 below.

	Color	Grit	Abrasive	Application	Item#	BOX of 20 1-2	BOX of 20 3+
A.	Maroon	Very Fine	AlO	General-purpose, deburring	108-7447	$27.50	$24.75
B.	Gray	Ultra-Fine	SiC	Light cleaning and finishing	108-7448	27.50	24.75

	Color	Grit	Abrasive	Application	Item#	Each
A.	Maroon	Very Fine	AlO	General-purpose, deburring	108-7445	$1.70
B.	Gray	Ultra-Fine	SiC	Light cleaning and finishing	108-7446	1.70

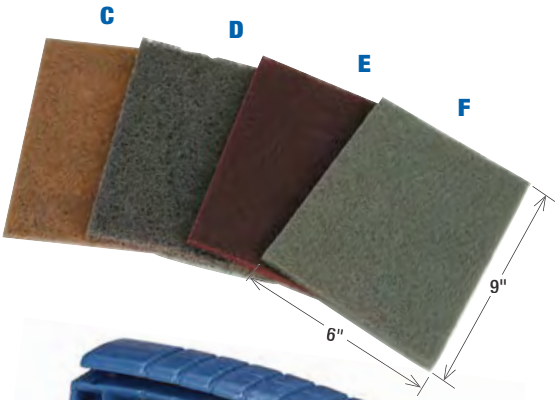


C-F 3M™ Scotch-Brite™ Hand Pads

On surfaces that require cleaning, scuffing, deburring or finishing by hand, Scotch-Brite hand pads outperform steel wool, wire brushes and other nonwoven hand pads. They cut faster and leave a more consistent finish. And Scotch-Brite pads will never rust, so they can be used with water or solvents. Available in four color-coded grades for a variety of cleaning and finishing jobs. Measure 6" x 9". Can be cut to fit Pad Holder or Mini Mandrel (see below).

	Color	Grit	Abrasive	Application	Item#	BOX of 10 1-2	BOX of 10 4+
C.	Tan	Coarse	AlO	Heavy-duty cleaning	108-7461	$38.35	$34.52
D.	Gray	Medium	SiC	Blending and cleaning	108-7459	25.65	23.09

	Color	Grit	Abrasive	Application	Item#	BOX of 20 1-2	BOX of 20 4+
E.	Maroon	Fine	AlO	Cleaning and finishing	108-7457	$30.85	$27.77
F.	Light Gray	Extra-Fine	SiC	Fine cleaning and finishing	108-7453	30.85	27.77



G. 3M™ Scotch-Brite™ Pad Holder

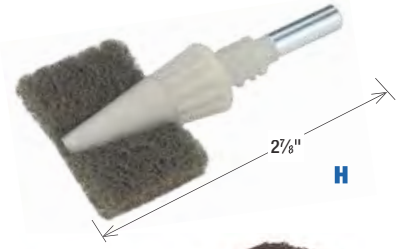
For use with Scotch-Brite hand pads (see above) cut to 4" x 6" size.

Description	Item#	Each
Pad Holder, 4" x 6"	108-7462	$27.25

H. 3M™ Scotch-Brite™ Mini Mandrel – 1/4" Shank

For use with 1" x 1½" pieces of Scotch-Brite hand pads (see above). Use on contours or to reach tight areas. Acts like a flap wheel. Measures 2⅞" long. Has ¼" shank.

Description	Max. RPM	Item#	Each
Mini Mandrel	14,000	108-7463	$9.75



I. Satin Finish Buffs

Made of a stiff, nonwoven material, Satin Finish Buffs have abrasive embedded in a red synthetic fiber. They produce a beautiful satin finish and conform to a wide variety of surface contours. Available in either 2-ply or 3-ply with leather center. All measure 4" dia. x 3/16" AH. Made in USA.

Grit	2-PLY Item#	EACH Prices 1-11	EACH Prices 12+	3-PLY Item#	EACH Prices 1-11	EACH Prices 12+
Coarse	142-3030	$7.60	$6.33	142-3050	$10.25	$8.54
Medium	142-3020	6.30	5.25	142-3045	8.50	7.08
Fine	142-3010	4.65	3.87	142-3040	6.60	5.50
Extra-Fine	142-3005	4.30	3.58	142-3035	6.40	5.33

J, K Satin Flap Wheels

Densest satin flap wheels on the market. Made of aluminum oxide. As each is used, fiber on the surface softens to create a beautiful finish with no cross-hatching or overlap marks. Medium produces a subtle line effect similar to a brush finish. Very Fine produces a glowing, bright satin finish. Measures 4" dia. x 1" thick x 3/8" AH. Imported.

	Dia. x Thickness x AH	Grit	Item#	Each
J.	4" x 1" x 3/8"	Medium	142-3075	$15.50
K.	4" x 1" x 3/8"	Very Fine	142-3070	12.85

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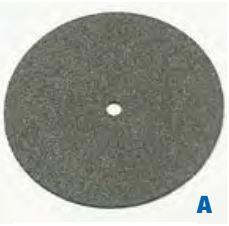
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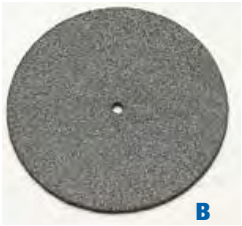
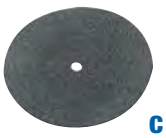

B

A-F Resin Bond Cut-Off Discs

Both sides and edges of these thin discs can be used for slitting and finishing gold, silver, brass, steel, porcelain and acrylics. Available in either silicon carbide (SiC) or aluminum oxide (AlO). Maximum operating speed: 25,000rpm for discs up to 1"; 21,000rpm for discs over 1". See pp. 460-461 for mandrel selection.

	Dia. x Thick	Arbor Hole	Abrasive	Item#	50pc Each
A.	1¼" x .025"	1/16"	AlO	**845-1024**	**$0.40**
B.	1½" x .050"	1/16"	AlO	**845-1025**	**0.40**

50pc *Fifty-piece minimum; please order in multiples of fifty.*


C

D

E

F

	Dia. x Thick	Arbor Hole	Abrasive	Item#	Box of 100
C.	7/8" x .023"	1/16"	SiC	**845-1017***	**$9.50**
D.	7/8" x .023"	1/16"	SiC	**845-1020**	**9.50**
E.	1" x .023"	1/16"	SiC	**845-1021**	**9.50**
F.	1" x .025"	1/16"	AlO	**845-1022**	**9.50**

**One side safe: abrasive on one side only.*

G

G. Ultra-Thin Cut-Off Disc

This super thin silicon carbide disc will cut gates, sprues and rings in a second, leaving a very thin space. Recommended operating speed: 12,000 to 14,000rpm. See pp. 460-461 for mandrel selection.

Description	Dia. x Thick	Arbor Hole	Item#	Box of 25 1-4	Box of 25 5+
Ultra-Thin Disc	7/8" x .009"	1/16"	**845-1050**	**$10.50**	**$9.98**

H

H. Dedeco® Separating Disc

For fast, cool cutting. Use High-Speed disc on gold and all other metals. Cut on edges only. Maximum operating speed: 21,000rpm. See pp. 460-461 for mandrel selection.

Description	Dia. x Thick	Arbor Hole	Item#	Box of 100
High-Speed AlO Disc	7/8" x .025"	1/16"	**845-1018**	**$11.95**

I

J

K

I-K Dedeco® Thin Separating Discs

Extremely thin discs coated with silicon carbide abrasive on both sides. Great for precision work on gold, silver and other jewelry metals. Allow fast, clean cutting. Available in three thicknesses: ultra-thin (UT), super-thin (ST) and very-thin (VT). Maximum operating speed: 21,000rpm. See pp. 460-461 for mandrel selection.

	Description	Dia. x Thick	Arbor Hole	Item#	BOX Prices 1-4	BOX Prices 5+
I.	UT Discs, box of 25	7/8" x .005"	1/16"	**845-1051**	**$18.30**	**$17.39**
J.	ST Discs, box of 25	7/8" x .009"	1/16"	**845-1052**	**14.50**	**13.78**
K.	VT Discs, box of 50	7/8" x .015"	1/16"	**845-1032**	**16.75**	**15.91**

Before using any abrasive product, follow all safe operating guidelines with respect to eye protection, hand protection, hearing protection and respiratory protection. Also read the Material Safety Data Sheet (MSDS) to be aware of any inherent hazards or cautions.

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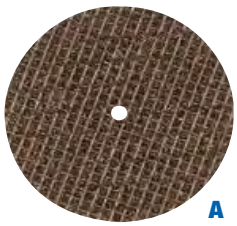
A. Nylon Cut-Off Discs

These resin-bonded discs are reinforced with interwoven nylon fibers to provide extra strength and durability for cut off operations. Two types are offered: One with durable Semi-Friable Aluminum Oxide (AlO), and the other with a combination of Aluminum Oxide and Premium Ceramic Abrasive (Cera) which produces the sharpest cut. See pp. 460-461 for mandrel selection. All 80 grit. Made in USA.

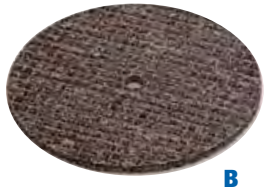
Dia. x Thickness	Arbor Hole	Abrasive	Max. RPM	Item#	EACH Prices 1-9	10+
1" x .045"	1/16"	AlO	60,000	**845-1011**	**$2.00**	**$1.80**
1" x .045"	1/16"	AlO+CERA	60,000	**845-1040**	**2.10**	**1.89**
1 1/4" x .045"	1/16"	AlO	50,000	**845-1012**	**2.10**	**1.89**
1 1/4" x .045"	1/16"	AlO+CERA	50,000	**845-1041**	**2.20**	**1.98**
1 1/2" x .045"	1/16"	AlO	30,000	**845-1028**	**2.15**	**1.94**
1 1/2" x .045"	1/16"	AlO+CERA	30,000	**845-1042**	**2.30**	**2.07**
2" x .045"	1/8"	AlO	30,000	**845-1013**	**2.35**	**2.12**
2" x .045"	1/8"	AlO+CERA	30,000	**845-1043**	**2.40**	**2.16**
2" x .0625"	1/8"	AlO	30,000	**845-1014**	**2.45**	**2.21**
2" x .0625"	1/8"	AlO+CERA	30,000	**845-1044**	**2.50**	**2.25**



B. Fast Cut Discs

Truly unique and versatile discs made from cotton fiber, aluminum oxide grain and resin bonded. They are long lasting and very durable and produce a relatively smooth surface finish. The 1 1/2" disc is reinforced with Fiberglass for extra strength. Thickness dimension will vary due to nature of materials. Both have 1/8" arbor holes and cut on the edge. Made in the USA. See pp. 460-461 for mandrels.

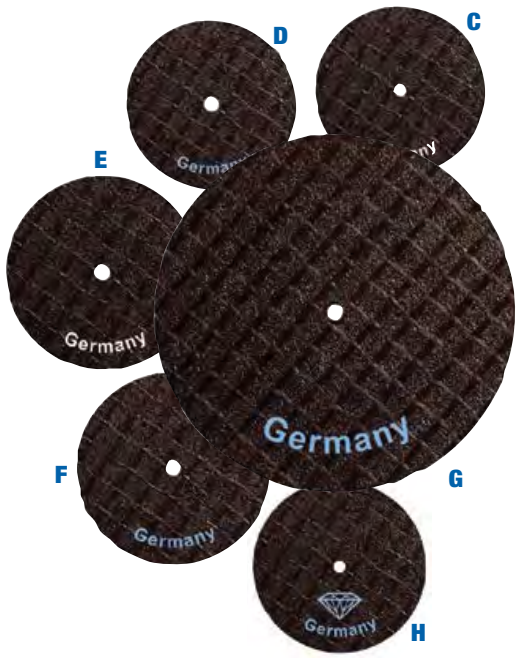
	Dia. x Thickness	Grit	Max. RPM	Item#	EACH Prices 1-11	12+
B.	1 1/2" x .075"	80	36,000	**845-3800**	**$3.60**	**$3.06**
	1" x .045"	180	45,000	**845-3700**	**3.60**	**3.06**



C-H Fiber Discs

Fast cutting cut-off discs reinforced for strength and durability. They are available in various sizes, thicknesses and abrasives. Aluminum Oxide for metals, Silicon Carbide for ceramics and Diamond for special applications. All have 1/16" arbor holes. See pp. 460-461 for mandrel selection. Made in Germany.

	Dia. x Thickness	Abrasive	Max. RPM	Item#	Pkg. of 10
	7/8" x .009" (22mm x 0.2mm)	AlO	15,000	**845-1037**	**$21.75**
C.	7/8" x .009" (22mm x 0.2mm)	SiC	15,000	**845-1053**	**21.75**
D.	7/8" x .012" (22mm x 0.3mm)	AlO	15,000	**845-1038**	**20.95**
E.	1" x .012" (25mm x 0.3mm)	AlO	10,000	**845-1016**	**23.30**
F.	1" x .012" (25mm x 0.3mm)	SiC	10,000	**845-1039**	**23.30**
G.	1 7/8" x .039" (40mm x 1.0mm)	AlO	5,000	**845-1049**	**32.00**
	Dia. x Thickness	**Abrasive**	**Max. RPM**	**Item#**	**Each**
H.	3/4" x .009" (20mm x 0.2mm)	Diamond	15,000	**845-1082**	**$7.85**



I, J Sintered Diamond Cut-Off Discs

These discs easily cut carbon fiber, carbide, steels, acrylics and other hard-to-cut materials. The 7/8" disc is sintered diamond throughout; the 1 1/4" disc is sintered diamond on outer edge only (approximately 1/8"). Each has 1/16" arbor hole. Max. operating speed: 20,000rpm. See pp. 460-461 for mandrel selection.

	Dia. x Thickness*	Item#	Each
I.	7/8" x .007"	**845-1080**	**$30.95**
J.	1 1/4" x .040"	**845-1085**	**36.95**

**Thickness of each disc may vary slightly.*

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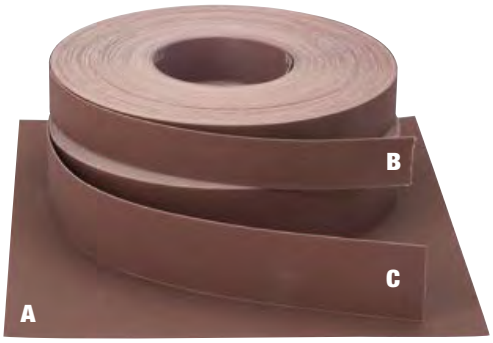

A-C Norton® Lightning Metalite Cloth

A long-lasting abrasive cloth used to clean or polish metal surfaces for a high-quality finish. Glue-bonded aluminum oxide on lightweight, flexible cloth backing. Available in sheets or rolls. The 1" rolls can be used with our Polishing Sticks 813-1950 and 813-1951 or the Wolf Sanding Mandrel Set 840-2305 (see below), and 1½" rolls can be used with our Cone-Loc Drum (see below).

Description	180 Grit	240 Grit	320 Grit	400 Grit	EACH Prices* 5-45	50+
A. 9" x 11" Sheet	109-3650	109-3750	109-3850	109-3950	$1.80	$1.44

Description	80 Grit	120 Grit	180 Grit	240 Grit	320 Grit	400 Grit	600 Grit	Each
B. 1" x 50-yd Roll	109-5149	109-5200	109-5300	109-5350	109-5400	109-5450	109-5510	$30.25
C. 1½" x 50-yd Roll	109-5525	109-5545	109-5550	109-5600	109-5650	—	—	42.00

***** *Quantity discount for orders of one item number only; not assorted.*

D. Cone-Loc Drum – 1½" Wide

Used with Lightning Metalite cloth (above), this is an excellent tool for deburring and sprue removal. By sanding or grinding with this wheel, hand filing can be practically eliminated. Made of heavy-gauge aluminum casting. Drum is covered by ½" thick rubber covering. Rubber covering allows surface to conform to work. Measures 6" dia. x 1½"W x ½"AH. Weighs 2 lbs. Maximum operating speed: 4,000rpm. Use with Lightning Metalite Cloth 1½" rolls (see above). Refer to p. 400 for arbors.

Description	Item#	Each
Cone-Loc Drum	840-1256	$209.00

E. Wolf™ Sanding Mandrel Set – ⅛" Shank

Includes three large-diameter mandrels for quicker, smoother sanding of ring insides: ¼" dia. x 1¾"L with ⅛" shank (holds ¾" wide paper); 5/16" dia. x 1⅞"L with ⅛" shank (holds 1" wide paper); ½" dia. x 1⅞"L with 5/32" shank (holds 1" wide paper). Mandrels are precision-made with short, heavy shanks to prevent wobble and bending. Shelf on each mandrel and included bands keep paper in place.

Description	Item#	Set of 3
Wolf Sanding Mandrel Set	840-2305	$9.55

F-H Split Mandrels – 3/32" Shank

For holding strips of abrasive paper and cloth. All 3/32" shank and measure approximately 2¼" long.

Head	Diameter	Item#	EACH Prices 1-11	12+
F. Straight	11/64"	840-3405	$2.45	$2.04
G. Straight	9/64"	840-3406	2.45	2.04
H. Tapered	3/32" to 3/16"	840-3407	2.45	2.04

I. Parallel Split Ring Arbor – For Tapered Spindles

Wood arbor with slot to hold paper or cloth so it can be wound around to desired thickness. Measures 4" long.

Description	Item#	EACH Prices (3pc) 3-9	12+
Parallel Split Ring Arbor	840-4650	$1.95	$1.66

(3pc) *Three-piece minimum; please order in multiples of three.*

J. Polishing Sticks

Use these tools as you would a file to smooth, debur and polish metal. Hold abrasive cloth and paper in 11" strips. Strips are easy to insert and remove and are held securely. Sanding surfaces measure 5" long, tapering from 3/8" thick to 1/16" at the tip. Made of high-impact, solvent-resistant plastic. Measure 10" long.

Style	Width	Item#	Each
Half-Round	1"	813-1951	$14.95
Flat	1"	813-1950	14.95

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A. PSA Strips

These pressure-sensitive strips are made of aluminum oxide, glue-bonded on a cloth backing. Just press them onto a flat surface such as a wood stick. Strips measure 1" x 11".

Grit	Item#	Box of 100	Grit	Item#	Box of 100
80	**107-2550**	**$43.15**	240	**107-2250**	**$43.15**
120	**107-2050**	**43.15**	320	**107-2300**	**43.15**
180	**107-2150**	**43.15**	400	**107-2350**	**43.15**

B-F PSA Discs

These flexible discs are made of aluminum oxide resin-bonded on a cloth backing for greater durability. Pressure-sensitive adhesive backing withstands the high frictional heat generated when a disc is in use. PSA Discs will stay on until removed from the holder by hand. Each disc has a peel-off backing to ensure adhesive freshness.

	Dia.	Grit	Item#	Box of 100
B.	1/2"	80	**105-0508**	**$8.55**
		120	**105-0512**	**8.55**
		180	**105-0518**	**8.55**
		240	**105-0524**	**8.55**
		320	**105-0532**	**8.55**
C.	3/4"	80	**105-0708**	**10.15**
		120	**105-0712**	**10.15**
		180	**105-0718**	**10.15**
		240	**105-0724**	**10.15**
		320	**105-0732**	**10.15**
D.	1"	60	**105-1006**	**16.20**
		80	**105-1008**	**16.20**
		120	**105-1012**	**16.20**
		180	**105-1018**	**16.20**
		240	**105-1024**	**16.20**
		320	**105-1032**	**16.20**
E.	1 1/2"	80	**105-1508**	**19.40**
		120	**105-1512**	**19.40**
		180	**105-1518**	**19.40**
		240	**105-1524**	**19.40**
		320	**105-1532**	**19.40**
F.	2"	60	**105-2006**	**32.05**
		80	**105-2008**	**32.05**
		120	**105-2012**	**30.25**
		180	**105-2018**	**30.25**
		240	**105-2024**	**30.25**
		320	**105-2032**	**30.25**
		400	**105-2040**	**30.25**

G-K PSA Disc Holders – 1/8" and 1/4" Shanks

Flexible rubber pads mounted on shanks to hold any PSA (Pressure Sensitive Adhesive) Discs. Rubber pads also provide cushioning for uniform finish. Actual pad diameters are slightly smaller than specified to ensure easy removal of discs and to prevent material from marring the work surface. Max. Operating speed: 22,000 rpm.

	Head Dia.	1/8" Shank Item#	1/4" Shank Item#	EACH Prices* 1-2	3+
G.	1/2"	**840-0010**	**840-0020**	**$5.05**	**$4.21**
H.	3/4"	**840-0030**	**840-0040**	**5.40**	**4.50**
I.	1"	**840-0050**	**840-0060**	**6.30**	**5.25**
J.	1 1/2"	**840-0070**	**840-0080**	**8.20**	**6.83**
K.	2"	–	**840-0090**	**8.90**	**7.42**

***** *Quantity discount for orders of one item number only; not assorted.*

L. Paper Discs, Aluminum Oxide

Paper discs are coated with Aluminum Oxide abrasive on one side. All have 1/16" arbor hole. See pp. 460-461 for mandrel selection.

Grit	Dia.	Item#	PKG. of 100 1-9	10+
80	1 1/2"	**845-1006**	**$17.10**	**$15.39**
150	1 1/2"	**845-1007**	**17.15**	**15.44**
220	1 1/2"	**845-1008**	**16.65**	**14.99**

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A B C

A-C Abrasive Bands - Aluminum Oxide

Long-lasting resin-bonded aluminum oxide bands with cloth backing. Provide chatter-free operation for grinding, blending, deburring, smoothing, finishing and polishing flat and contoured metal surfaces, including the insides of holes. Use on hard metals, class rings, etc. Use with Drum Arbors (see below). Max. operating speed: 30,000rpm. Made in USA.

	Dia. x H	Grit	Item#	Box of 100
A.	1/4" x 1/2"	80	**101-0208**	**$8.50**
		120	**101-0212**	**8.50**
		180	**101-0218**	**8.50**
		240	**101-0224**	**8.50**
B.	3/8" x 1/2"	60	**101-0306**	**9.50**
		80	**101-0308**	**9.50**
		120	**101-0312**	**9.50**
		240	**101-0324**	**9.50**
		320	**101-0332**	**9.50**
C.	1/2" x 1/2"	60	**101-0406**	**11.95**
		80	**101-0408**	**11.95**
		120	**101-0412**	**11.95**
		240	**101-0424**	**11.95**
		320	**101-0432**	**11.95**

Shown actual size.

D E F

D-F Abrasive Band Drum Arbors

Made of steel with a solid rubber drum which expands when screw or nut is tightened to hold Abrasive Bands snugly. The rubber drum provides a cushioned backing so that Abrasive Bands cut smoothly and leave a uniform finish. Balanced for maximum performance at high speeds.

	Dia. x H	Shank	Item#	EACH Prices 1-2	3-11	12+
D.	1/4" x 1/2"	3/32"	**840-1045**	**$4.50**	**$4.28**	**$3.83**
		1/8"	**840-1050**	**4.50**	**4.28**	**3.83**
E.	3/8" x 1/2"	3/32"	**840-1035**	**4.50**	**4.28**	**3.83**
		1/8"	**840-1040**	**4.50**	**4.28**	**3.83**
F.	1/2" x 1/2"	3/32"	**840-1055**	**3.85**	**3.66**	**3.27**
		1/8"	**840-1060**	**3.85**	**3.66**	**3.27**
		1/4"	**840-1170**	**3.95**	**3.75**	**3.36**

Shown actual size.

G H I J

K L M

N O

P

G-P 3M™ Flex Diamond Bands

Incredibly durable, nonloading bands for cleaning, shaping and precision prefinishing. Ideal for dead end hole, tube and inside ring finishing. Coated with micron-graded diamond abrasive in a honeycomb pattern for fast cutting. Can be used wet or dry on both soft and hard metals, including platinum, palladium and white gold, as well as soft stones. Produce optimal finishes with minimal metal removal. Won't gouge or catch. To polish any metal surface to a flawless mirror shine, use Flex Diamond in progressively finer grits, switch to Imperial Film (see next page), then finish with rouge. Use with drum arbor (see above). Max. operating speed: 20,000rpm.

	Description	Grit	Item#	EACH Prices 1-4	5-9	10+
G.	1/4" x 1/2" Band	120	**101-1310**	**$6.20**	**$5.58**	**$4.96**
H.		220	**101-1315**	**6.20**	**5.58**	**4.96**
I.		400	**101-1320**	**4.45**	**4.01**	**3.56**
J.		800	**101-1325**	**4.45**	**4.01**	**3.56**
K.	1/2" x 1/2" Band	60	**101-1330***	**7.25**	**6.53**	**5.80**
L.		120	**101-1335***	**7.25**	**6.53**	**5.80**
M.		220	**101-1340***	**6.05**	**5.45**	**4.84**
N.		400	**101-1345***	**6.05**	**5.45**	**4.84**
O.		800	**101-1350***	**6.05**	**5.45**	**4.84**
P.	*6-Piece 1/2" x 1/2" Diamond Band Set (one each with a 3/32" shank drum arbor)		**101-1355**	**39.10**	**-**	**-**

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A. 3M™ Imperial™ Micro-Finishing Film Bands

Durable, nonloading bands for producing smooth, uniform finishes. Ideal for inside ring finishing. Feature premium micron-graded aluminum oxide resin-bonded onto high-strength polyester film backing for maximum cutting efficiency. Can be used wet or dry on both soft and hard metals. Use wet with a light touch to create a satin finish. To polish any metal surface to a flawless mirror shine, use Imperial Film following Flex Diamond (see previous page), then finish with rouge. Color-coded for easy grit identification. Available in 26-piece set consisting of five ½" x ½" bands in the following grits/microns: 180/80, 220/60, 400/30, 600/15, 1200/9. One 3/32" shank drum arbor. Max. operating speed: 20,000rpm.

A

Description	Item#	Each
Imperial Band Set	**101-1206**	**$34.70**

B. Micro-Mesh® Abrasives - Silicon Carbide

Micro-Mesh features a unique cushion design that allows its abrasive crystals to recede into its resilient backing and "float" to an even cutting plane. Follows the contours of your work evenly—Perfect for refinishing steel tools and removing light scratches. Restores rolling mill rollers to brand-new condition.

Effective on gold, silver, platinum, even steel! Leaves a smoother, finer finish than expected: 400 grit Micro-Mesh cuts like a 400 grit but leaves an 800–1000 grit finish. Can be used dry or wet. Used dry, it lasts 5–7 times longer than common abrasives. Used with oil or water, it lasts 7–15 times longer.

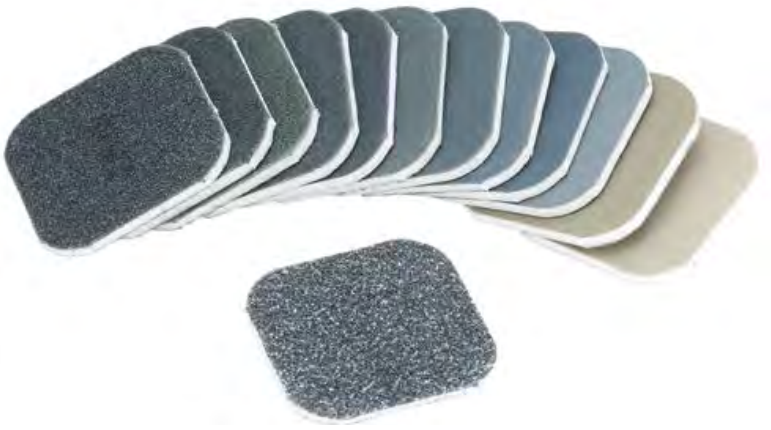
B

Description	Grit	Item#	EACH Prices 1-11	12+
File (½" x 5¾", two-sided)	100/150	**107-3114**	**$2.10**	**$1.89**
	180/240	**107-3115**	**1.99**	**1.79**
	400/600	**107-3116**	**1.99**	**1.79**

C. Micro-Mesh® Ultra-Flex Pad Set

Micro-Mesh Soft Touch pads are handy for doing small jobs and for spot repair projects. The 2" x 2" foam core provides additional flexibility and conformity, while being easy to hold and operate.

Each pad has the same Micro-Mesh grade on both sides. This material is made to be used wet or dry and is made with a flexible cotton backing with polymer emulsion cushioning layer and large micron graded silicon carbide or aluminum oxide crystals suspended in a flexible resin bond. The MX bond is less flexible than other Micro-Mesh products so you can achieve a higher finish on metals. Stated grit size, due to this unique material, produces a finer than expected finish, i.e., 60MX = 240 grit. Each pad is printed with its corresponding grade. The complete set includes the following 13 grades:



SiC Abrasive

60 MX, 80 MX, 100 MX, 120 MX, 150 MX, 180 MX, 240 MX, 320 MX, 360 MX, 400 MX, 600 MX

AlO Abrasive

800 MX, 1200 MX

Description	Item#	Each
Ultra-Flex Pad Set	**107-3120**	**$15.70**

Before using any abrasive product, follow all safe operating guidelines with respect to eye protection, hand protection, hearing protection and respiratory protection. Also read the Material Safety Data Sheet (MSDS) to be aware of any inherent hazards or cautions.

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A-E 3M™ Diamond Micro-Finishing Film – Bands and Strips

Available as bands and Hookit (Velcro-type) strips with precision-graded diamond abrasive bonded onto tough, flexible 5-mil film backing. Can be used wet or dry. Cut faster than aluminum oxide and silicon carbide. Ideal for soft metals such as silver and gold and a great time-saver for harder metals such as platinum and stainless steel. Wonderful for shaping gemstones.

Color-coded for easy identification. Use bands with drum arbors (see p. 64), strips with sticks (see below). Max. operating speed: 20,000rpm. Use strips with sticks sold in packages of three (see below).

Shown actual size.

	Description	Grade	Grit	Color	Item#	Pkg. of 10
A.	1/4" x 1/2" Bands	E-74	220	Dk. Aqua	**101-1376**	**$26.30**
B.		E-45	320	Yellow	**101-1377**	**25.80**
C.		E-30	400	Lt. Green	**101-1378**	**20.90**
D.		E-20	600	Lt. Brown	**101-1379**	**21.60**
	Description	**Grade**	**Grit**	**Color**	**Item#**	**Pkg. of 5**
E.	1" x 7" Hookit Strips	E-45	320	Yellow	**109-8401**	**$14.25**
		E-30	400	Lt. Green	**109-8402**	**14.25**
		E-20	600	Lt. Brown	**109-8403**	**11.95**

Description	Item#	Pkg of 3
Hookit Stick	**840-4410**	**$11.85**

F-L 3M™ Trizact™ Abrasive Bands

These abrasive bands consist of unique pyramid-shaped aluminum oxide particles bonded to resilient backing. Because the abrasive particles wear evenly, they maintain their cut rate two to five times longer and produce much more uniform cuts than conventional bands. Sold in packages of 10. Use with drum arbors (see p. 64). Max. operating speed: 30,000rpm.

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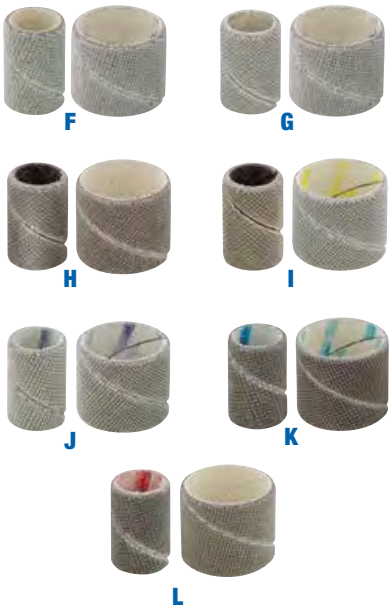
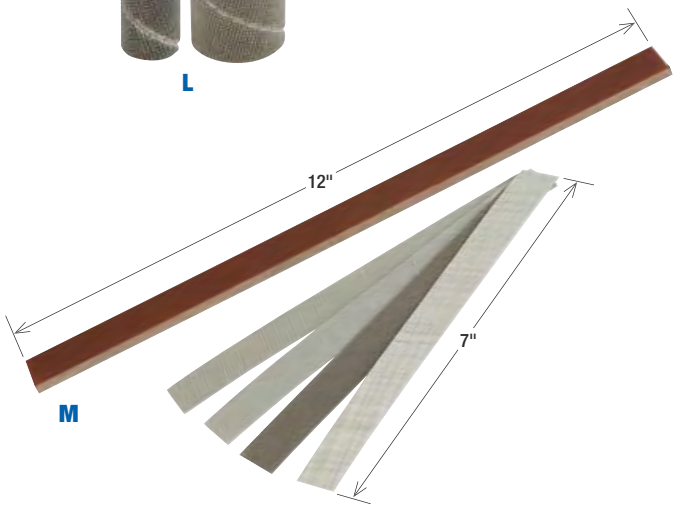


	Grit	1/4" x 1/2" Item#	PKG. of 10 1-4	PKG. of 10 5+	1/2" x 1/2" Item#	PKG. of 10 1-4	PKG. of 10 5+
F.	200	**101-1001**	**$2.95**	**$2.36**	**101-1035**	**$3.90**	**$3.12**
G.	220	**101-1005**	**2.95**	**2.36**	**101-1040**	**3.90**	**3.12**
H.	280	**101-1010**	**2.95**	**2.36**	**101-1045**	**3.90**	**3.12**
I.	400	**101-1015**	**2.95**	**2.36**	**101-1050**	**3.90**	**3.12**
J.	600	**101-1020**	**2.95**	**2.36**	**101-1055**	**3.90**	**3.12**
K.	1200	**101-1025**	**2.95**	**2.36**	**101-1060**	**3.90**	**3.12**
L.	2500	**101-1030**	**2.95**	**2.36**	**101-1065**	**3.90**	**3.12**



M. 3M™ Trizact™ PSA Strips

Consist of unique pyramid-shaped aluminum oxide abrasive particles bonded onto resilient PSA backing. Maintain cut rate two to five times longer and produce more uniform cuts than conventional abrasive strips. Trizact contains multiple layers which expose fresh sharp mineral during use. Measure 3/4"W x 7"L. Use with 3/4"W x 12"L plastic stick.

Grit	Item#	Pkg of 10
220	**101-1131**	**$13.80**
400	**101-1132**	**13.80**
600	**101-1133**	**13.80**
1200	**101-1134**	**13.80**
Description	**Item#**	**Each**
Polishing Stick, 3/4" x 12"	**101-1130**	**$ 2.90**

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Straight Abrasive Cartridge Rolls Aluminum Oxid

Resin-bonded aluminum oxide cloth rolls for both lapping surfaces and finishing inside diamet end holes, tubes and rings. Self-renewing: wearing through one layer uncovers fresh layer cloth making them an excellent tool for blending where uniform finishes required. Balanced wobble. Use with cartridge roll mandrels (see p. 68). Max. operating speed: 16,000–22,000rpm

	Dia. x L x AH	Use Mandrel	Grit	Item#	BOX of 100 1-2	BOX of 100 3+
A.	1/8" x 3/4" x 5/64"	A1	80	103-1208	$35.10	$33.35
			120	103-1212	35.10	33.35
			180	103-1218	35.10	33.35
			240	103-1224	35.10	33.35
			320	103-1232	35.10	33.35
B.	1/8" x 1" x 5/64"	A1	80	103-1308	35.10	33.35
			120	103-1312	35.10	33.35
			180	103-1318	35.10	33.35
			240	103-1324	35.10	33.35
			320	103-1332	35.10	33.35
C.	3/16" x 3/4" x 3/32"	A2	120	103-2212	28.30	26.89
			180	103-2218	28.30	26.89
			240	103-2224	28.30	26.89
			320	103-2232	28.30	26.89
D.	3/16" x 1" x 3/32"	A2	80	103-2308	28.85	27.41
			120	103-2312	28.85	27.41
			180	103-2318	28.85	27.41
			240	103-2324	28.85	27.41
			320	103-2332	28.85	27.41
E.	1/4" x 3/4" x 1/8"	A4 or A8	80	103-3208	28.85	27.41
			120	103-3212	28.85	27.41
			180	103-3218	28.85	27.41
			240	103-3224	28.85	27.41
			320	103-3232	28.85	27.41
F.	1/4" x 1" x 1/8"	A5 or A9	80	103-3308	28.85	27.41
			120	103-3312	28.85	27.41
			180	103-3318	28.85	27.41
			240	103-3324	28.85	27.41
			320	103-3332	28.85	27.41
G.	3/8" x 3/4" x 1/8"	A4 or A8	80	103-5208	28.85	27.41
			120	103-5212	28.85	27.41
			180	103-5218	28.85	27.41
			240	103-5224	28.85	27.41
			320	103-5232	28.85	27.41
H.	3/8" x 1" x 1/8"	A5 or A9	80	103-5308	31.40	29.83
			120	103-5312	31.40	29.83
			180	103-5318	31.40	29.83
			240	103-5324	31.40	29.83
			320	103-5332	31.40	29.83
I.	1/2" x 3/4" x 1/8"	A4 or A8	80	103-6208	31.40	29.83
			120	103-6212	31.40	29.83
			180	103-6218	31.40	29.83
			240	103-6224	31.40	29.83
			320	103-6232	31.40	29.83
J.	1/2" x 1" x 1/8"	A5 or A9	80	103-6308	36.05	34.25
			120	103-6312	36.05	34.25
			180	103-6318	36.05	34.25
			240	103-6324	36.05	34.25
			320	103-6332	36.05	34.25

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A B

A, B Abrasive Tapered Cartridge Rolls – Aluminum Oxide Cloth

Made of resin-bonded aluminum oxide cloth. Particularly useful on jobs with channels, fillets and irregular concave contours. Hold at a 45° angle to workpiece for reaching into angles and corners, or hold at a lower angle to apply greater abrasive surface for faster cutting action. Self-renewing: wearing through one layer uncovers fresh layer. Balanced to eliminate wobble. Use with cartridge roll mandrels (see below). Max. operating speed: 16,000–22,000rpm.

	Dia. x L x AH	Use Mandrel	Grit	Item#	BOX of 100 1-2	3+
A.	3/8" x 1 1/2" x 1/8"	A6 or A10	80	**103-7001**	**$64.85**	**$61.61**
			120	**103-7002**	**64.85**	**61.61**
			180	**103-7003**	**67.45**	**64.08**
			240	**103-7004**	**67.45**	**64.08**
B.	1/2" x 1 1/2" x 1/8"	A6 or A10	80	**103-7007**	**68.30**	**64.89**
			120	**103-7008**	**68.30**	**64.89**

C

D

C, D 3M™ Aluminum Oxide Cartridge Rolls

High-quality aluminum oxide sandpaper rolls tightly wrapped and resin-bonded together. As each layer wears out, it can be peeled away to reveal a fresh surface. Can be used wet or dry. Use with cartridge roll mandrels (see below). Max. operating speed: 15,000rpm.

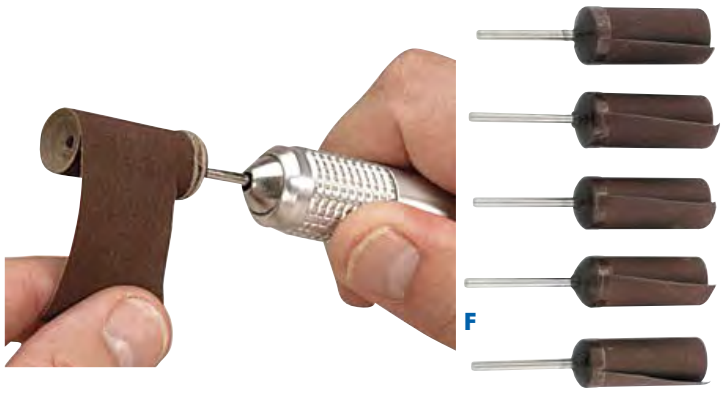
	Dia. x L x AH	Use Mandrel	Grit	Item#	PKG. of 100 1-2	3+
C.	1/2" x 3/4" x 1/8"	A4 or A8	120	**101-0150**	**$31.85**	**$27.07**
			180	**101-0151**	**31.85**	**27.07**
			240	**101-0152**	**31.85**	**27.07**
			320	**101-0153**	**31.85**	**27.07**
D.	17-Piece Intro Kit (four rolls of each grit, 1/8" shank mandrel and plastic case)			**101-0154**	**16.95**	**14.41**

E

E. Cartridge Roll Mandrels – 1/8" and 1/4" Shanks

Hardened steel mandrels firmly secure straight or tapered abrasive cartridge rolls. Match pilot size of mandrel to arbor hole on cartridge roll. More flexibility may be obtained if pilot length is slightly shorter than the cartridge rolls. If necessary, mandrels may be ground down to needed length. Available on 1/4" or 1/8" shanks.

Mandrel	Pilot Size	Shank	Item#	EACH Prices 1-2	3-11	12+
A1	5/64" x 1"	1/8"	**840-2040**	**$4.35**	**$4.13**	**$3.92**
A2	3/32" x 1"	1/8"	**840-2050**	**4.35**	**4.13**	**3.92**
A3	1/8" x 1/2"	1/8"	**840-2060**	**4.35**	**4.13**	**3.92**
A4	1/8" x 3/4"	1/8"	**840-2070**	**4.35**	**4.13**	**3.92**
A5	1/8" x 1"	1/8"	**840-2080**	**4.95**	**4.70**	**4.46**
A6	1/8" x 1 1/2"	1/8"	**840-2090**	**4.95**	**4.70**	**4.46**
A7	1/8" x 1/2"	1/4"	**840-2120**	**4.95**	**4.70**	**4.46**
A8	1/8" x 3/4"	1/4"	**840-2130**	**5.40**	**5.13**	**4.86**
A9	1/8" x 1"	1/4"	**840-2140**	**5.40**	**5.13**	**4.86**
A10	1/8" x 1 1/2"	1/4"	**840-2150**	**5.40**	**5.13**	**4.86**
A11	1/8" x 2"	1/4"	**840-2160**	**5.25**	**4.99**	**4.73**



F

F. Premounted Abrasive Rolls – 3/32" Shank

Each roll consists of aluminum oxide abrasive paper wrapped around a 3/32" shank mandrel, creating many layers. Since paper is secured only at the bottom, user can easily tear off worn portion to expose fresh cutting surface. Unlike regular unmounted rolls, these long-lasting rolls require no truing. Recommended operating speed 16,000-22,000rpm.

Grit	Dia. x L	Item#	EACH Prices 1-9	10-99	100+
240	1/2" x 1 1/8"	**103-7110**	**$0.78**	**$0.70**	**$0.62**
320	1/2" x 1 1/8"	**103-7112**	**0.78**	**0.70**	**0.62**
400	1/2" x 1 1/8"	**103-7114**	**0.78**	**0.70**	**0.62**
600	1/2" x 1 1/8"	**103-7116**	**0.78**	**0.70**	**0.62**
800	1/2" x 1 1/8"	**103-7118**	**0.78**	**0.70**	**0.62**

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A-C Tapered Cone Points – Aluminum Oxide Cloth

Glue-bonded aluminum oxide points for finishing, deburring and polishing applications. All slightly longer than specified. Use with tapered cone point mandrels (below). Max. operating speed: 25,000rpm.

	Style	Dia. x L	Grit	Item#	BOX of 100
A.	K11 (2½° Taper)	3/16" x 1"	60	107-1100	$33.65
			80	107-1150	33.65
			100	107-1200	33.65
			120	107-1250	33.65
			180	107-1350	33.65
			240	107-1400	33.65
			320	107-1450	33.65
B.	B2 (5° Taper)	5/16" x 1½"	60	107-0100	33.65
			80	107-0150	33.65
			100	107-0200	33.65
			120	107-0250	33.65
			180	107-0350	33.65
			240	107-0400	33.65
			320	107-0450	33.65
C.	C3 (5° Taper)	3/8" x 2"	80	107-0650	42.00
			120	107-0750	42.00
			320	107-0950	42.00

D-F Tapered Cone Point Mandrels – 1/8" and 1/4" Shanks

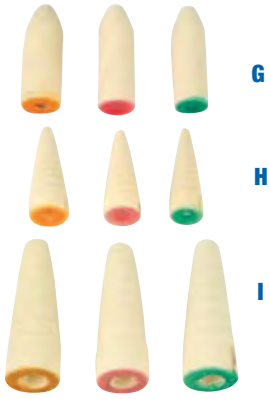
For use with Tapered Cone Points (see above).

	For Point Style	Shank	Item#	Each
D.	K11	1/8"	840-2030	$6.10
E.	B2	1/4"	840-2010	7.90
F.	C3	1/4"	840-2020	8.75

G-I Paper Bullets and Cones

Economical paper bullets and cones for sanding, blending and fine finishing in hard-to-reach areas. Cones expose new grit as they wear. Recommended for use at low speeds for better control and longer life. Designed for fast, easy changing. Use bullets and small cones with threaded mandrel (see below), large cones with split mandrel (see below).

	Shape	Dia. x L	Color	Grit	Item#	Pkg. of 10
G.	Bullet	1/4" x 5/8"	Yellow	Coarse	107-1058	$6.15
			Red	Medium	107-1057	6.15
			Green	Fine	107-1056	6.15
H.	Small Cone	1/4" x 9/16"	Yellow	Coarse	107-1055	6.15
			Red	Medium	107-1054	6.15
			Green	Fine	107-1053	6.15
I.	Large Cone	5/8" x 15/16"	Yellow	Coarse	107-1052	5.70
			Red	Medium	107-1051	5.70
			Green	Fine	107-1050	5.70



J. Paper Cone Set

Perfect for fine finishing in tight areas. Includes 10 yellow (coarse), 10 red (medium) and 10 green (fine) large cones; 10 yellow, 10 red and 10 green small cones; split mandrel for large cones, 3/32" shank; and threaded mandrel for small cones, 3/32" shank. Cones expose new grit as they wear. Recommended for use at low speeds for better control and longer life. Designed for fast, easy changing.

Description	Item#	Each
Paper Cone Set	107-1060	$56.80

K, L Paper Bullet and Cone Mandrels – 3/32" Shanks

Use threaded with bullets and small cones (see above), split with large cones (see above).

	Description	Shank	Item#	EACH Prices 1-11	12+
K.	Threaded Mandrel	3/32"	840-3040	$1.25	$1.04
L.	Split Mandrel	3/32"	840-3407	2.45	2.04

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A. Grit Stick Sleeves

Sleeves made of aluminum oxide, glue-bonded on durable cloth. Slide over Grit Stick Sleeve Holder (see below) and work right up to corners. Measure 7¼"L x ⅞"W.

Grit	120	180	240	320	PKG. of 10 1-9	10+*
Item#	**107-3150**	**107-3350**	**107-3450**	**107-3550**	**$9.90**	**$8.42**

***Quantity discount for orders of one item number only; not assorted.**

B. Grit Stick Sleeve Holder

Wooden stick for holding Grit Stick Sleeves (see above). Measures approximately 8"L x ⅞"W x ¼" thick.

Description	Item#	EACH Prices (3pc) 3-9	12+*
Grit Stick Sleeve Holder	**840-4400**	**$1.15**	**$1.04**

C. Cloth and Paper Ring Shells

Shells available in both paper (Silicon Carbide with resin bond) and cloth (Aluminum Oxide with resin bond) for polishing inside of rings. Cloth backing is long-lasting and more durable than paper, will not tear or snag as easily and is more heat-resistant. Both types fit snugly on wooden Ring Shell Arbor (below). Measure 4" long. Packaged in boxes of 12 shells and supplied in different grits from 4 (coarsest) to 4/0 (finest).

Grit	Cloth Item#	Box of 12	Paper Item#	Box of 12
4	**107-9000**	**$13.14**	**107-8660**	**$18.50**
3	**107-8950**	**15.26**	**107-8650**	**18.50**
2	**107-8900**	**13.14**	**107-8600**	**18.50**
1	**107-8850**	**13.14**	**107-8550**	**18.50**
0	**–**	**–**	**107-8500**	**16.65**
2/0	**107-8750**	**14.60**	**107-8450**	**18.50**
3/0	**107-8700**	**14.60**	**107-8400**	**18.50**
4/0	**107-8675**	**14.60**	**–**	**–**

D. Assorted Ring Shell Sets

Contain six ring shells of different grits and one wooden ring shell arbor.

Description	Item#	(3pc) Each
Cloth Ring Shell Set	**107-9050**	**$11.75**
Paper Ring Shell Set	**107-8300**	**13.98**

E. Ring Shell Arbor – For Tapered Spindles

Solid wood, for holding Paper and Cloth Ring Shells. Measures 4¼" long. Fits on tapered spindle.

Description	Item#	EACH Prices (3pc) 3-9	12+
Ring Shell Arbor	**840-4600**	**$1.44**	**$1.22**

F. Emery Hand Buffs

For removing scratches and file marks and for polishing. Fine-grade emery paper carefully mounted on seasoned wood. Corners are sharp and paper will not unravel. Measure 10"L x ¾"W x ¼" thick. Listed in order from coarsest (3 grit) to finest (4/0 grit).

Grit	3	2	1	0	EACH Prices (3pc) 3-9	12+*
Item#	**107-9850**	**107-9800**	**107-9750**	**107-9700**	**$1.31**	**$1.11**

Grit	2/0	3/0	4/0	EACH Prices (3pc) 3-9	12+*
Item#	**107-9650**	**107-9600**	**107-9550**	**$1.31**	**$1.11**

***Quantity discount for orders of one item number only; not assorted.**

(3pc) ***Three-piece minimum; please order in multiples of three.***

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Flap Wheels 1/8" and 1/4" Shank

Flap Wheels are made of aluminum oxide resin-bonded to cloth and permanently attached to the hub. They are resilient and can be used on flat or contoured surfaces. Particularly useful in flexible shaft handpieces and other rotary tools. Excellent for blending on metal surfaces, deburring and removing flash from machined parts and edge blending dies, molds and channels. Cutting action is slightly finer than normally expected from identical grit. Flap Wheels perform best when only slight pressure is applied.

A

35,000rpm

B

30,000rpm

C

40,000rpm

D

35,000rpm

E

30,000rpm

A-E Small Wheels – 1/8" Shank

Dia. x Thickness	60 Grit Item#	80 Grit Item#	120 Grit Item#	180 Grit Item#	240 Grit Item#	320 Grit Item#	EACH Prices* 1-2	3+
A. 3/4" x 3/16"	–	107-5900	107-5905	–	107-5912	107-5915	$3.85	$3.66
B. 1 3/16" x 3/16"	–	107-5940	107-5945	–	107-5951	107-5955	3.85	3.66
C. 3/8" x 3/8"	107-6001	107-6002	107-6003	107-6004	107-6005	107-6006	3.65	3.47
D. 3/4" x 3/8"	–	107-5920	107-5925	–	107-5932	107-5935	3.85	3.66
E. 1" x 3/8"	–	107-5965	107-5970	107-5976	107-5978	107-5980	4.48	4.26

**Quantity discount for orders of one item number only; not assorted.*

F

40,000rpm

F, G Medium Wheels – 1/8" Shank

Dia. x Thickness	60 Grit Item#	80 Grit Item#	120 Grit Item#	180 Grit Item#	240 Grit Item#	320 Grit Item#	EACH Prices* 1-2	3+
F. 5/8" x 5/8"	107-6011	107-6012	107-6013	107-6014	107-6015	107-6016	$3.90	$3.71
G. 3/4" x 3/4"	–	107-6021	107-6022	107-6023	–	–	4.00	3.80

**Quantity discount for orders of one item number only; not assorted.*

G

35,000rpm

H, I Large Wheels – 1/4" Shank

Dia. x Thickness	Shank	Max. RPM	Grit	Item#	EACH Prices 1-2	3+
H. 1 1/2" x 1/2"	1/4"	30,000	40	107-7880	$5.65	$5.37
			60	107-7885	4.48	4.26
			80	107-7890	4.48	4.26
			120	107-7895	4.48	4.26
			180	107-7900	4.48	4.26
			240	107-7905	4.48	4.26
I. 2" x 3/4"	1/4"	25,000	60	107-6850	5.65	5.37
			80	107-6900	5.65	5.37
			120	107-6500	5.65	5.37
			240	107-6650	5.65	5.37

30,000rpm

H

25,000rpm

I

J. Cloth 4" Flap Wheels

Abrasive wheels with closely spaced cloth flaps for fast cutting action with a smooth uniform finish. The 240 grit is ideal for quick metal removal. Great for sprue and gate removal. The 320 and 400 grits remove scratches and leave a much finer finish than expected. For use on tapered spindles. Made in Thailand.

Grit	Max. RPM	Item#	EACH Prices 1-2	3+
J. 240	1,400	108-0175	$23.55	$22.37
320		108-0176	23.55	22.37
400		108-0177	23.55	22.37

J

1,400rpm

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A

A-C Seamless Abrasive Caps and Holders – 1/8" and 1/4" Shanks

Use for deburring and finishing hard-to-reach, recessed areas. Designed for easy mounting and removal. Caps fit holders easily yet are held firmly by centrifugal force while working. Holders have 1/8" or 1/4" shanks (3mm and 6mm shanks available by special order).

Cap	Dia. x H	Max. RPM	Grit	Item#	Pkg. of 50	Holder	Item#	Each
A. Flat	3/16" x 3/8"	40,000	80	**104-1000**	**$38.00**	1/8" shank	**104-1200**	**$4.40**
			150	**104-1005**	**38.00**		**104-1200**	**4.40**
			280	**104-1010**	**38.00**		**104-1200**	**4.40**
	9/32" x 1/2"	30,000	60	**104-1015**	**38.00**	1/8" shank	**104-1205**	**4.45**
			150	**104-1020**	**38.00**		**104-1205**	**4.45**
			280	**104-1025**	**38.00**		**104-1205**	**4.45**
	3/8" x 5/8"	20,000	60	**104-1030**	**44.00**	1/8" shank	**104-1210**	**4.45**
			150	**104-1035**	**44.00**		**104-1210**	**4.45**
			280	**104-1040**	**44.00**		**104-1210**	**4.45**
	1/2" x 11/16"	16,000	60	**104-1260**	**52.00**	1/4" shank	**104-1350**	**5.00**
			150	**104-1265**	**52.00**		**104-1350**	**5.00**
			280	**104-1270**	**52.00**		**104-1350**	**5.00**
	5/8" x 1"	12,000	60	**104-1275**	**52.00**	1/4" shank	**104-1355**	**5.00**
			150	**104-1280**	**52.00**		**104-1355**	**5.00**
			280	**104-1285**	**52.00**		**104-1355**	**5.00**
B. Rd.	3/16" x 7/16"	40,000	80	**104-1045**	**38.00**	1/8" shank	**104-1215**	**4.45**
			150	**104-1050**	**38.00**		**104-1215**	**4.45**
			280	**104-1055**	**38.00**		**104-1215**	**4.45**
	9/32" x 1/2"	30,000	60	**104-1060**	**38.00**	1/8" shank	**104-1220**	**4.45**
			150	**104-1065**	**38.00**		**104-1220**	**4.45**
			280	**104-1070**	**38.00**		**104-1220**	**4.45**
	3/8" x 5/8"	20,000	60	**104-1075**	**44.00**	1/8" shank	**104-1225**	**4.45**
			150	**104-1080**	**44.00**		**104-1225**	**4.45**
			280	**104-1085**	**44.00**		**104-1225**	**4.45**
	1/2" x 11/16"	16,000	60	**104-1290**	**52.00**	1/4" shank	**104-1360**	**5.00**
			150	**104-1295**	**52.00**		**104-1360**	**5.00**
			280	**104-1300**	**52.00**		**104-1360**	**5.00**
	5/8" x 1"	12,000	60	**104-1305**	**52.00**	1/4" shank	**104-1365**	**5.00**
			150	**104-1310**	**52.00**		**104-1365**	**5.00**
			280	**104-1315**	**52.00**		**104-1365**	**5.00**
C. Cone	3/16" x 7/16"	40,000	80	**104-1090**	**38.00**	1/8" shank	**104-1230**	**4.45**
			150	**104-1095**	**38.00**		**104-1230**	**4.45**
			280	**104-1100**	**38.00**		**104-1230**	**4.45**
	9/32" x 1/2"	30,000	60	**104-1105**	**38.00**	1/8" shank	**104-1235**	**4.45**
			150	**104-1110**	**38.00**		**104-1235**	**4.45**
			280	**104-1115**	**38.00**		**104-1235**	**4.45**
	3/8" x 5/8"	20,000	60	**104-1120**	**44.00**	1/8" shank	**104-1240**	**4.45**
			150	**104-1125**	**44.00**		**104-1240**	**4.45**
			280	**104-1130**	**44.00**		**104-1240**	**4.45**
	1/2" x 11/16"	16,000	60	**104-1320**	**52.00**	1/4" shank	**104-1370**	**5.00**
			150	**104-1325**	**52.00**		**104-1370**	**5.00**
			280	**104-1330**	**52.00**		**104-1370**	**5.00**
	5/8" x 1"	12,000	60	**104-1335**	**52.00**	1/4" shank	**104-1375**	**5.00**
			150	**104-1340**	**52.00**		**104-1375**	**5.00**
			280	**104-1345**	**52.00**		**104-1375**	**5.00**

B

C

D

D. Seamless Abrasive Cap Set

This money-saving set includes 270 caps (six of each item# listed in chart above) and 15 corresponding holders (1/8" and 1/4" shanks). Supplied in a convenient 16-compartment plastic storage tray with lid.

Description	Item#	Each
Seamless Abrasive Cap Set	**104-1245**	**$310.00**

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Belt Sticks & Sets Aluminum Oxide

Economical, versatile tools that accommodate ¼", ½" or ¾" wide abrasive belts, for sanding and smoothing hard-to-reach areas. Made of impact-resistant polypropylene. The tip can be easily reshaped to meet your exact needs. A spring-loaded tensioning device allows the abrasive belt to be rotated so that all areas of the belt can be used and permits quick belt changing. Belt Sticks may be used dry or with water, oil, or solvents. Sticks are supplied in 5 colors to help you quickly distinguish one grit from another. Abrasive belts are resin-bonded, cloth-backed aluminum oxide. Made in USA.

A. Belt Sticks

Size	Color	Grit	Belt Stick w/Belt Item#	Belt Stick w/Belt Each	Extra Belts Item#	PKG. of 10 1-9	PKG. of 10 10+
¼" x 6"	Red	120	**107-3610**	**$1.85**	**107-3621**	**$6.75**	**$6.08**
	Blue	240	**107-3612**	**1.85**	**107-3625**	**6.75**	**6.08**
	Green	320	**107-3614**	**1.85**	**107-3627**	**6.75**	**6.08**
	Yellow	400	**107-3616**	**1.85**	**107-3628**	**6.75**	**6.08**
	Black	600	**107-3618**	**1.85**	**107-3629**	**5.65**	**5.09**
½" x 8"	Red	120	**107-3640**	**3.25**	**107-3651**	**10.45**	**9.41**
	Blue	240	**107-3642**	**3.25**	**107-3655**	**10.45**	**9.41**
	Green	320	**107-3644**	**3.25**	**107-3657**	**10.45**	**9.41**
	Yellow	400	**107-3646**	**3.25**	**107-3658**	**10.45**	**9.41**
	Black	600	**107-3648**	**3.25**	**107-3659**	**10.45**	**9.41**
¾" x 10"	Red	120	**107-3670**	**4.35**	**107-3681**	**13.85**	**12.47**
	Blue	240	**107-3672**	**4.35**	**107-3685**	**13.85**	**12.47**
	Green	320	**107-3674**	**4.35**	**107-3687**	**13.85**	**12.47**
	Yellow	400	**107-3676**	**4.35**	**107-3688**	**13.85**	**12.47**
	Black	600	**107-3678**	**4.35**	**107-3689**	**13.85**	**12.47**

A

B. 10-Piece Belt Stick Set – ¼"

Supplied with 5 Belt Sticks: red, blue, green, yellow and black (each with one abrasive belt of each grit: 120, 240, 320, 400 and 600).

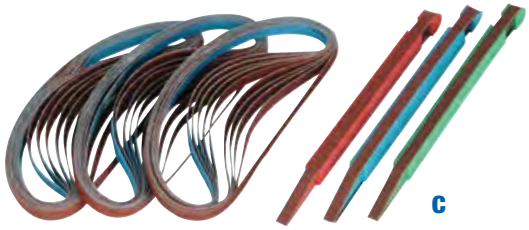
Description	Size	Item#	Each
10-Piece Set	¼"	**107-3602**	**$8.50**

B

C. 36-Piece Belt Stick Set – ¼"

Supplied with 3 Belt Sticks: red, blue and green (each with one abrasive belt). 30 additional abrasive belts included (10 of each grit: 120, 240 and 320).

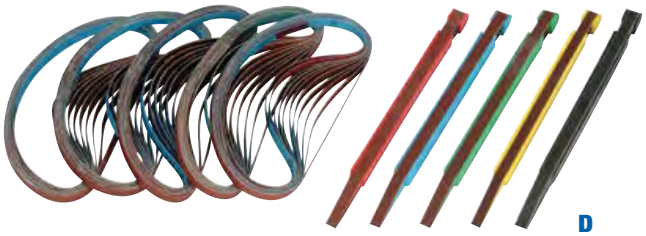
Description	Size	Item#	Each
36-Piece Set	¼"	**107-3605**	**$23.95**


C

D-F 60-Piece Belt Stick Sets

Supplied with 5 Belt Sticks: red, blue, green, yellow and black (each with one abrasive belt). 50 additional abrasive belts included (10 of each grit: 120, 240, 320, 400 and 600).

	Description	Size	Item#	Each
D.	60-Piece Set	¼"	**107-3606**	**$39.00**
E.	60-Piece Set	½"	**107-3636**	**59.95**
F.	60-Piece Set	¾"	**107-3666**	**71.95**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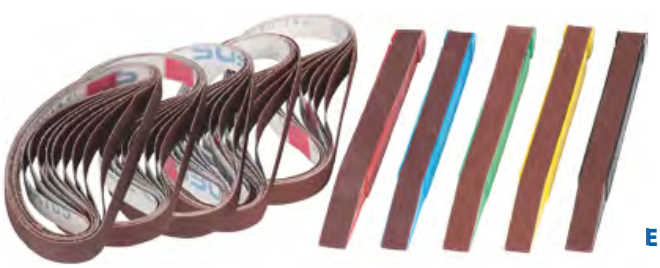
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F

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A

A. 3M™ Imperial™ Micro-Finishing Film
Aluminum Oxide

Precision micron-graded aluminum oxide resin-bonded to a polyester film backing. For close tolerance finishing on metals and plastic surfaces. Nonloading for longer life and greater efficiency. Measures 8½" x 11".

Color	Grit/Micron	Item#	EACH Prices (5pc) 5-95	100+
Brown	180/80	**109-8100**	**$2.85**	**$2.42**
Black	220/60	**109-8105**	**2.95**	**2.51**
Blue	320/40	**109-8110**	**2.95**	**2.51**
Green	400/30	**109-8115**	**2.95**	**2.51**
Red	500/20	**109-8125**	**2.95**	**2.66**
Orange	600/15	**109-8120**	**3.05**	**2.75**
Light Blue	1200/9	**109-8130**	**2.85**	**2.57**
7-Piece Set (one each)		**109-8135**	**SET Price**	**19.79**

B

B. 3M™ Lapping Films – Aluminum Oxide

Popular prefinishing films for platinum. Feature precision micron-graded premium abrasive resin-bonded to film backing for reliable, repeatable performance. Impart fine, consistent finishes on both soft and hard metals. Resist water, oil and most solvents. Can be used wet or dry alone or cut and wrapped around a stick or file for fine work. Measure 8½" x 11". Use from 12 micron (coarse) to 3 micron (fine) before compounds.

Color	Grade/Grit	Item#	EACH Prices (5pc) 5-45	50+
Yellow	12 micron/C	**109-8353**	**$1.95**	**$1.76**
Brown	5 micron/M	**109-8352**	**1.95**	**1.76**
Pink	3 micron/F	**109-8351**	**1.95**	**1.76**

C

C. Norton® Durite Abrasive Paper – Silicon Carbide

Fast-cutting silicon carbide. Excellent wear, nonloading. For intermediate and final dry sanding. Lightweight paper backing easily conforms to all shapes and angles. Sheets measure 9" x 11".

Grit	Item#	EACH Prices (5pc) 5-95	100+
120	**109-6051**	**$0.90**	**$0.63**
180	**109-6101**	**0.90**	**0.63**
220	**109-6151**	**0.90**	**0.63**
320	**109-6301**	**0.90**	**0.63**

D

D. Norton® Lightning Metalite Cloth – Aluminum Oxide

A long-lasting abrasive cloth used to clean or polish metal surfaces for a high-quality finish. Glue-bonded aluminum oxide on lightweight, flexible cloth backing. Measure 9" x 11".

Grit	Type	Item#	EACH Prices (5pc) 5-45	50+
180	Cloth	**109-3650**	**$1.80**	**$1.44**
240	Cloth	**109-3750**	**1.80**	**1.44**
320	Cloth	**109-3850**	**1.80**	**1.44**
400	Cloth	**109-3950**	**1.80**	**1.44**

(5pc) *Five-piece minimum; Please order in multiples of five.*

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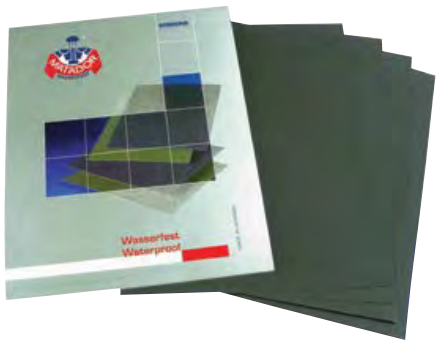
A. Matador Waterproof Paper – Silicon Carbide

Matador Waterproof paper is a premium coated abrasive made in Germany by Starke GmbH, well known worldwide for over 175 years. It is resin bonded, long lasting, resists loading and provides excellent grain retention. The grit sizes noted with a "P" before the grit number indicates the European grading system which means a tighter tolerance in particle size variation compared to the US system. The result is these papers produce a finer scratch pattern making it easier to polish. The lightweight "A" weight paper is extremely flexible and has a non-curling feature when used wet which is particularly helpful. For use either wet or dry on steels, precious metals, wood, stone, paint, etc. A great value and a high quality product. Measures 9" x 11".

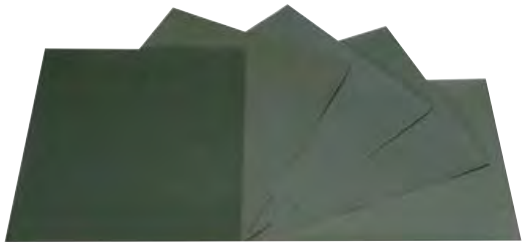


A

Grit	Item#	EACH Prices (5pc) 5-45	50+	Grit	Item#	EACH Prices (5pc) 5-45	50+
P220	**109-7100**	**$0.95**	**$0.71**	P1500	**109-7118**	**$1.23**	**$0.92**
P320	**109-7104**	**0.95**	**0.71**	P2000	**109-7122**	**1.50**	**1.13**
P400	**109-7106**	**0.95**	**0.71**	P2500	**109-7124**	**1.50**	**1.13**
P600	**109-7110**	**0.95**	**0.71**	3000	**109-7126**	**2.08**	**1.56**
P1000	**109-7114**	**1.23**	**0.92**	5000	**109-7128**	**3.13**	**2.35**
P1200	**109-7116**	**1.23**	**0.92**				

B. 3M™ Wetordry™ Paper – Silicon Carbide

Provide finer finishes than traditional emery papers. Backing and coating offer enhanced cut rates, improved finishes and better durability. Coarser grits come on heavyweight paper (431Q), and finer grits come on lightweight and flexible papers (413Q and 401Q, respectively). All silicon carbide. Measure 9" x 11".

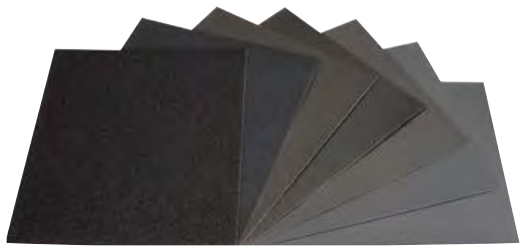


B

Grit	Paper Type	Item#	EACH Prices (5pc) 5-95	100+	Grit	Paper Type	Item#	EACH Prices (5pc) 5-95	100+
80	431Q	**109-8185**	**$1.85**	**$1.67**	400	413Q	**109-8195**	**$1.25**	**$1.13**
120	431Q	**109-8187**	**1.40**	**1.26**	600	413Q	**109-8196**	**1.25**	**1.13**
180	431Q	**109-8189**	**1.25**	**1.13**	1000	401Q	**109-8200**	**2.20**	**1.98**
220	413Q	**109-8190**	**1.25**	**1.13**	1500	401Q	**109-8202**	**2.20**	**1.98**
280	413Q	**109-8197**	**1.25**	**1.13**	2000	401Q	**109-8203**	**2.20**	**1.98**
320	413Q	**109-8193**	**1.28**	**1.15**	2500	401Q	**109-8204**	**2.20**	**1.98**

C. Norton® Waterproof Paper BLUE-BAK – Silicon Carbide

Silicon carbide abrasive with improved resin bond for exceptional finishes in both wet and dry applications and improved waterproof paper backing for better flexibility and wet-curl resistance. 80 and 120 grits come on heavy weight paper (T461), 220 to 600 on light weight paper and 1200P on slightly lighter weight. Yield long life in rough, wet applications. Measure 9" x 11".

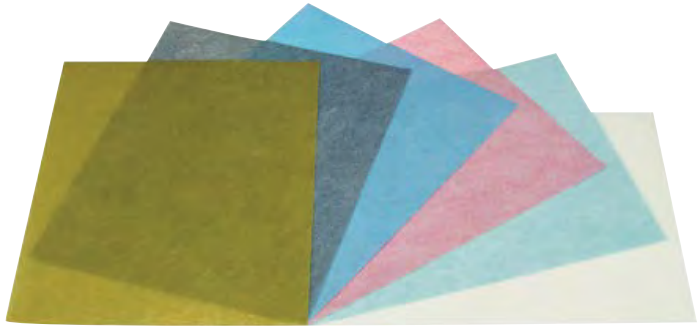


C

Grit	Paper Type	Item#	EACH Prices (5pc) 5-45	50+	Grit	Paper Type	Item#	EACH Prices (5pc) 5-45	50+
80	T461	**109-7000**	**$1.60**	**$1.28**	400	T414	**109-7035**	**$1.05**	**$0.84**
120	T461	**109-7010**	**1.25**	**1.00**	600	T414	**109-7045**	**0.98**	**0.78**
220	T414	**109-7015**	**1.05**	**0.84**	1200*	T401	**109-7055**	**1.50**	**1.20**
320	T414	**109-7025**	**0.98**	**0.78**	**slightly finer than 600*				

D. 3M™ Wetordry™ Polishing Paper – Silicon Carbide

Super-flexible fibrous paper non-woven backing allows easy polishing of flat and contoured surfaces of softer materials. Precision micron-graded silicon carbide (481Q) and aluminum oxide (281Q) papers provide a uniform finish. Use wet or dry on precious metals, aluminum, plastic, polyurethane, solid surface composites, fiberglass and wood. Measure 8½" x 11".



D

Color	Grade/Grit	Paper Type	Item#	EACH Prices (5pc) 5-95	100+
Green	30 micron/400	481Q	**109-8001**	**$1.53**	**$1.38**
Gray	15 micron/600	481Q	**109-8005**	**1.53**	**1.38**
Blue	9 micron/1200	281Q	**109-8010**	**1.53**	**1.38**
Pink	3 micron/4000	281Q	**109-8015**	**1.53**	**1.38**
Lt. Blue	2 micron/6000	281Q	**109-8020**	**1.53**	**1.38**
Mint	1 micron/8000	281Q	**109-8025**	**1.53**	**1.38**
6-Piece Set (one each)			**109-8026**	SET Price	**7.85**

(5pc) Five-piece minimum; Please order in multiples of five.

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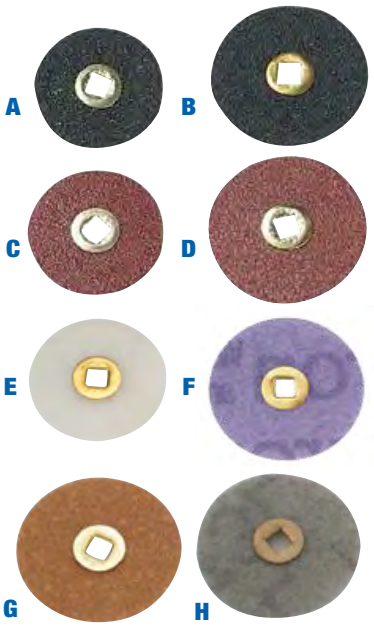


A-J Moore's Snap-On Discs

Snap-On Discs feature quick-change, sure-lock brass centers with one cutting face on paper or plastic backing.

Three types of paper-backed discs are available: Emery contain black silicon carbide, a fast cutting abrasive; Adalox contain aluminum oxide, less aggressive than Emery and Garnet which is a natural mineral and is slightly less aggressive than Adalox.

Five types of plastic-backed discs are available:

AlO contains evenly dispersed micron-grade aluminum oxide, which provides smooth, fast cutting action; Garnet is a natural mineral which is slightly less aggressive than AlO; Sand contains long-lasting white aluminum oxide, slightly less aggressive than Garnet and Water Proof Silicon Carbide which is Silicon Carbide on a paper backing that has a water proof front and is less aggressive than Sand and Felt which contain no abrasive and can be charged with compound or paste for quick and easy finishing. Max. operating speed: 30,000rpm. Use with Snap-On Mandrel (see below). Made in USA

	Type/ Backing	Dia.	Extra Coarse Item#	Coarse Grit Item#	Med. Grit Item#	Fine Grit Item#	Extra Fine Item#	BOX of 50* 1-5	12+
A.	Emery/Paper	3/4"	–	845-2585	845-2590	845-2595	–	$3.60	$3.24
B.	Emery/Paper	7/8"	–	845-2596	845-2597	845-2598	–	3.60	3.24
C.	Adalox/Paper	3/4"	–	845-2600	845-2650	845-2700	–	4.40	3.96
D.	Adalox/Paper	7/8"	–	845-2715	845-2710	845-2705	–	4.40	3.96
E.	Sand/Plastic	3/4"	–	845-2858	845-2857	845-2856	845-2855	5.95	5.36
F.	Sand/Plastic	7/8"	–	845-2865	845-2863	845-2860	845-2859	5.95	5.36
	Garnet/Paper	3/4"	845-2821	845-2822	845-2823	–	–	5.95	5.36
	Garnet/Paper	7/8"	845-2824	845-2825	845-2826	–	–	5.95	5.36
	Garnet/Plastic	3/4"	–	–	–	845-2827	845-2828	5.95	5.36
G.	Garnet/Plastic	7/8"	–	–	–	845-2829	845-2830	5.95	5.36
H.	WP SiC/Plastic	7/8"	–	845-2893	845-2894	845-2895	–	4.45	4.01

	Type/ Backing	Dia.	Coarse Grit Item#	Med. Grit Item#	Fine Grit Item#	No Grit Item#	BOX of 100* 1-11	12+
I.	AlO/Plastic	7/8"	845-2900	845-2902	845-2899	–	$14.50	$12.33
	Felt/Plastic	3/4"	–	–	–	845-0971	28.80	24.48
J.	Felt/Plastic	7/8"	–	–	–	845-0970	28.80	24.48

**Quantity discount for orders of one item number only; not assorted.*

K. Snap-On Mandrel – 3/32" Shank

One-piece construction from high quality steel. Fits Snap-On Discs. Made in Germany.

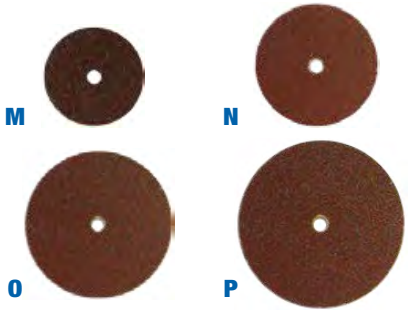
Description	Item#	EACH Prices* 1-11	12+
Snap-On Mandrel, 3/32" shank	840-3200	$1.85	$1.54

**Quantity discount for orders of one item number only; not assorted.*

L. Snap-On 7/8" Disc Set

Includes 120 Snap-On Discs (10 of each Emery C/M/F, Adalox C/M/F, Sand C/M/F, AlO Plastic backed C/M and Felt 7/8" discs) plus two Snap-On Mandrels in a convenient storage box.

Description	Item#	Each
120-Piece Set, 7/8" dia.	845-2905	$18.00



M-P Pin Hole Adalox Discs

Pin hole discs with Adalox (aluminum oxide) abrasive on paper backing. Available in 4 sizes all with pin hole center. See pages 460-461 for screw mandrels. Sold in boxes of 100 discs.

	Type/ Backing	Dia.	Coarse Grit Item#	Med. Grit Item#	Fine Grit Item#	BOX of 100
M.	Adalox/Paper	1/2"	845-0981	845-0982	845-0983	$5.40
N.	Adalox/Paper	5/8"	845-0984	845-0985	845-0986	5.40
O.	Adalox/Paper	3/4"	845-0987	845-0988	845-0989	5.40
P.	Adalox/Paper	7/8"	845-0997	845-0998	845-0999	5.40

Q. Spindle Stands

The ideal way to store Moore's Discs while keeping them immediately available. Each stand has 12 spindles. Snap-On Stand holds approximately 600 Snap-On discs while the Pin Hole Stand will hold approximately 1200 Pin Hole discs. Measures 5 3/4"L x 2 1/2"W x 2 1/2"H.

	Description	Item#	Each
Q.	For Snap-On Discs	845-2904	$19.95
	For Pin Hole Discs	845-0980	19.95

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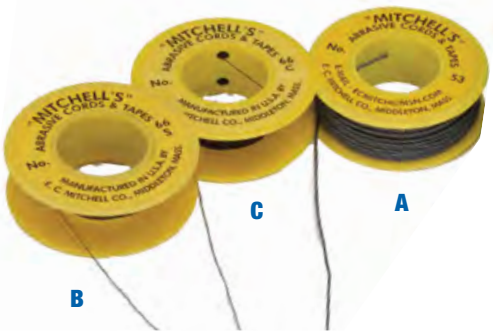
A-E Mitchell's Abrasive Cords and Tapes – USA

Flexible cords and tapes fully covered in abrasives for grinding, polishing and finishing small holes, narrow slots, curved surfaces and other areas standard tools can't reach. Used by jewelers for polishing wire settings and small heads, inaccessible to points and wheels. Aluminum oxide and silicon carbide are for cutting, and crocus (ultra-fine iron oxide) is for especially fine polishing. Can be used by hand and in saw frames, drills and other tools on hard and soft metals, ceramic, plastic and wood. Won't tear or fray. Supplied in 50' spools.

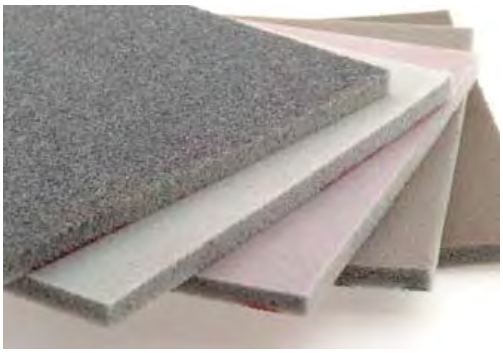


	Cord		Style	Dia.	Grit	Item#	50' Spool
A.	AlO	●	49	.082"	120	**102-1000**	**$18.70**
		●	50	.070"	180	**102-1005**	**18.15**
		●	51	.055"	120	**102-1010**	**10.75**
		•	53	.040"	180	**102-1020**	**10.75**
		•	54	.030"	200	**102-1025**	**10.75**
B.	SiC	•	54-H	.025"	200	**102-1030**	**12.00**
		·	55	.018"	200	**102-1035**	**12.00**
		·	60	.015"	200	**102-1040**	**12.25**
		·	66	.012"	280	**102-1045**	**29.60**
C.	Crocus	●	52-C	.055"	Ultra-fine	**102-1060**	**13.70**
		•	53-C	.040"	Ultra-fine	**102-1065**	**12.80**
		•	54-C	.030"	Ultra-fine	**102-1070**	**12.80**
		•	54-HC	.025"	Ultra-fine	**102-1075**	**14.15**
		·	55-C	.018"	Ultra-fine	**102-1080**	**14.15**
		·	60-C	.015"	Ultra-fine	**102-1085**	**14.15**
		·	66-C	.012"	Ultra-fine	**102-1090**	**29.75**
	Tape		**Style**	**W x Thick**	**Grit**	**Item#**	**50' Spool**
	AlO	▬	56	.093" x .037"	180	**102-1095**	**$11.20**
D.	AlO	▬	57	.125" x .037"	180	**102-1100**	**11.50**
E.	Crocus	▬	56-C	.093" x .030"	Ultra-fine	**102-1115**	**13.00**

F. 3M™ Sponge Sanding Pads

Flexible, palm-sized Sponge Sanding Pads from 3M conform to almost any surface contour. Made of long-lasting, closed-cell rubber with micron-graded aluminum oxide abrasive grains, these pads will not gouge the work surface.

3M Sponge Sanding Pads can be used wet or dry for a variety of applications as well as folded or trimmed to fit into detailed areas. Each pad measures 4½" x 5½". Available in Medium, Fine, Super-Fine, Ultra-Fine and Micro-Fine as well as a Set of all 5.



Description	Item#	EACH Prices 1-4	5-19	20+
Medium Pad	**108-7020**	**$1.88**	**$1.72**	**$1.65**
Fine Pad	**108-7015**	**1.88**	**1.72**	**1.65**
Super-Fine Pad	**108-7010**	**1.88**	**1.72**	**1.65**
Ultra-Fine Pad	**108-7005**	**3.20**	**2.93**	**2.80**
Micro-Fine Pad	**108-7000**	**3.20**	**2.93**	**2.80**
F. 5-Piece Set	**108-7025**	**SET Price**		**11.75**

G. Unitized Mounted Points – ⅛" Shank

Ideal for a variety of deburring, blending, finishing and polishing applications. Consist of durable unitized material embedded with fine silicon carbide and mounted on ⅛" shanks. Conform to workpieces for consistent, uniform finishing without undercutting or gouging.

Style	Dia. x H	Max. RPM	Item#	Each
B42	½" x ¾"	33,750	**845-0080**	**$6.65**
B52	⅜" x ¾"	45,300	**845-0081**	**5.60**
B90	½" x ½"	34,500	**845-0082**	**5.10**
W160	¼" x ¼"	81,300	**845-0083**	**3.60**
W183	½" x ¼"	51,700	**845-0084**	**4.20**
W185	½" x ½"	34,500	**845-0085**	**4.90**

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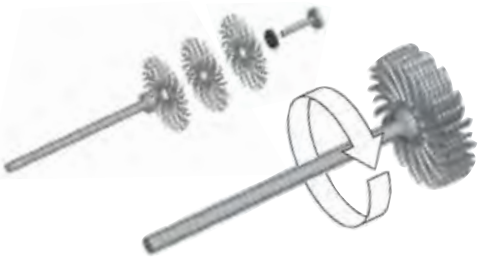
3M™ Scotch-Brite™ Radial Bristle Discs

For fast and easy cleaning and polishing without compound!

Use to clean, prepolish, blend and remove scratches and firescale. Excellent on gold, silver, platinum and most other metals. Require no compounds. Work fast and take the mess out of cleaning up small areas such as tiny findings, bracelet links, nugget rings and more. Long-lasting and nonloading. Color-coded for easy grit identification.

Use a single one for reaching tight areas, or stack several of them for covering large surface areas (for example, 2" and 3" discs can be stacked up to ten in a row). 6" discs consist of eight stacked discs mounted on a plastic hub. Includes adapters for 3/8", 1/2" and 5/8" and 3/4" arbors. Maximum operating speeds: 10,000rpm for 6" discs, 20,000rpm for 3" discs and 30,000rpm for all others (recommended operating speed for most applications: 15,000rpm). See p. 460-461 for mandrels.

Color	Application
Brown	Removal of heaviest scratches
Green	Removal of heavy scratches
Yellow	Removal of scratches and firescale
White	Texturing, light cleaning
Red	Removal of light scratches and oxides
Blue	Blending, prepolishing
Pink	Very light cleaning, prepolishing
Peach	Polishing
Lt. Green	Final polishing



Mount one to six discs.

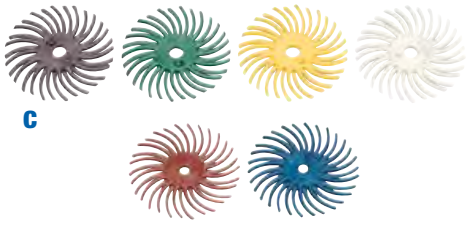
A-D Small Discs – For use with rotary handpieces

The 9/16" and 3/4" discs are sold in packages of 12 (see pp. 460-461 for mandrels) or in packages of 48 which includes one 3/32" mandrel. Maximum operating speed 30,000 rpm (although recommended for most applications will be 15,000 rpm).

A

	Dia. x AH	Color	Grit	Item#	Pkg. of 12	Pkg. of 48 with 3/32" Shank Mandrel Item#	Pkg. of 48 with 3/32" Shank Mandrel Each
A.	9/16" x 1/16"	White	120	145-1520	$12.10	145-1620	$42.15
		Red	220	145-1525	11.75	145-1625	42.15
		Blue	400	145-1530	11.75	145-1630	42.15
		Pink	Pumice	145-1535	11.75	145-1635	42.15
		Peach	6 Micron	145-1545	11.75	145-1645	42.50
		Lt. Green	1 Micron	145-1540	11.75	145-1640	42.15
B.	3/4" x 1/16"	Yellow	80	145-1500	12.10	145-1600	44.95
		Red	220	145-1505	12.10	145-1605	44.95
		Blue	400	145-1510	12.10	145-1610	44.95
		Pink	Pumice	145-1515	12.10	145-1615	44.95
		Peach	6 Micron	145-1492	12.10	145-1590	44.95
		Lt. Green	1 Micron	145-1495	12.10	145-1595	44.95

B



C

	Dia. x AH	Color	Grit	Item#	Pkg. of 12 1-3	Pkg. of 12 4+
C.	1" x 1/8"	Brown	36	145-1550	$16.10	$14.97
		Green	50	145-1555	16.10	14.97
		Yellow	80	145-1560	16.10	14.97
		White	120	145-1565	16.10	14.97
		Red	220	145-1570	18.30	17.02
		Blue	400	145-1575	18.30	17.02

D

	Description	Item#	Each
D.	45-Piece Small Disc Set (includes three of each disc listed above (except for #145-1492, #145-1495, #145-1570 and 145-1575, one 3/32" shank mandrel and two 1/8" shank mandrels)	145-1670	$48.95
	73-Piece 9/16" Set (includes 12 of each 9/16" disc listed above and one 3/32" shank mandrel in a plastic case)	145-1672	69.85
	73-Piece 3/4" Set (includes 12 of each 3/4" disc listed above and one 3/32" shank mandrel in a plastic case)	145-1673	89.00

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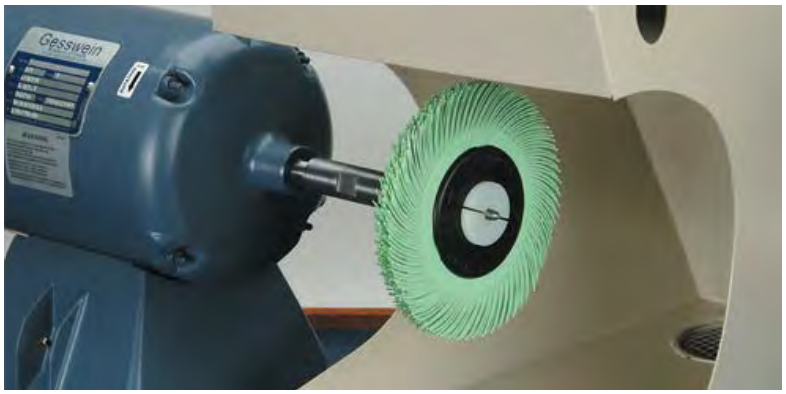


A-D 2-3" Discs – For use with polishing motors & Mini Max Combo

The 2" and 3" discs are sold with right hand (RH) tapered spindle adapters in packages of 10 or 40 discs and in sets of 3 of each disc and an adapter. Optional left hand (LH) adapter is also available. See below. Both have ¼" arbor holes. Max. operating speed 30,000rpm for 2" and 20,000rpm for 3".

	Dia. x AH	Color	Grit	Item#	Pkg. of 10	Pkg. of 40 w/hub Item#	Pkg. of 40 w/hub Each
A.	2" x ⅜"	Yellow	80	**145-1745**	**$24.95**	**145-1675**	**$99.60**
		White	120	**145-1750**	**24.95**	**145-1680**	**99.60**
		Red	220	**145-1755**	**24.95**	**145-1685**	**99.60**
		Blue	400	**145-1760**	**24.95**	**145-1690**	**99.60**
		Pink	Pumice	**145-1765**	**24.95**	**145-1695**	**99.60**
		Peach	6 Micron	**145-1770**	**24.95**	**145-1700**	**99.60**
		Lt. Green	1 Micron	**145-1775**	**24.95**	**145-1705**	**99.60**

Description	Item#	Each
22-Piece 2" Disc Set	**145-1814**	**$54.25**

	Dia. x AH	Color	Grit	Item#	Pkg. of 10	Pkg. of 40 w/hub Item#	Pkg. of 40 w/hub Each
B.	3" x ⅜"	Yellow	80	**145-1780**	**$33.50**	**145-1710**	**$123.25**
		White	120	**145-1785**	**33.50**	**145-1715**	**126.70**
		Red	220	**145-1790**	**33.50**	**145-1720**	**126.70**
		Blue	400	**145-1795**	**33.50**	**145-1725**	**126.70**
		Pink	Pumice	**145-1800**	**33.50**	**145-1730**	**123.60**
		Peach	6 Micron	**145-1805**	**33.50**	**145-1735**	**123.60**
		Lt. Green	1 Micron	**145-1810**	**33.42**	**145-1740**	**123.60**

Description	Item#	Each
22-Piece 3" Disc Set	**145-1815**	**$75.00**
C. RH Tapered Spindle Adapter Hub for 2" and 3" discs	**145-1921**	**3.10**
D. LH Tapered Spindle Adapter for 2" and 3" discs	**145-1922**	**3.10**

A

B

C

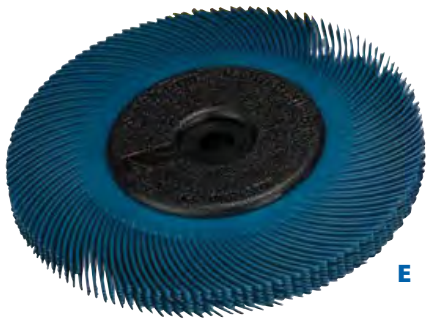
D

E. 6" Discs – For use with polishing motors & Max 24

Each 6" disc consists of eight stacked discs mounted on a plastic hub. Includes adapters for ⅜", ½", ⅝" and ¾" arbors. Tapered spindle adapters sold separately. Max. operating speed 6,000rpm.

	Dia. x AH	Color	Grit	Item#	EACH Prices 1-2	EACH Prices 3+
E.	6" x 1"*	Yellow	80	**145-1925**	**$60.70**	**$55.97**
		White	120	**145-1926**	**60.70**	**55.97**
		Red	220	**145-1927**	**60.70**	**55.97**
		Blue	400	**145-1928**	**60.70**	**55.97**
		Peach	6 Micron	**145-1929**	**60.70**	**55.97**
		Lt. Green	1 Micron	**145-1930**	**60.70**	**55.97**

**Complete with adapters for ⅜", ½", ⅝", and ¾" arbors.*


E

F. Tapered Spindle Adapter for 6" Discs

Description	Item#	Each
Tapered Spindle Adapter for 6" discs	**145-1931**	**$5.80**

Color may vary.

F

All prices subject to change without notice.

Abrasive Polishers & Wheels Brand Comparison

Brand >	Brightboy	GRX	PT	Dedeco	Airflex	Cratex	Poly	Edenta	Elite	SiC	Cera	SX
Page	89	93	85	81, 94, 95	86, 95	90–92	84	82	86	83	88	85
Abrasive	AlO	AlO	AlO	SiC & AlO	SiC	SiC	SiC	SiC	SiC	SiC	Ceramic	SiC & AlO
Bond	Rubber	Rubber	Rubber	Neoprene	Silicone Rubber	Rubber	Rubber	Rubber	Silicone Rubber	Silicone Rubber	Rubber	PVA
Wheels	●	●	●	●	●	●	●	●	●	●	●	
Mtd. Wheels			●				●	●				
Cylinders				●		●	●	●	●	●		
Mtd. Cylinders							●				●	●
Points						●					●	
Mtd. Points			●				●	●				
Bullets						●						
Mtd. Bullets		●									●	
Rods		●	●			●		●				
Sticks	●	●				●						
Coarse	70	46, 80		100,120	C	C	C	Prepolish	180		80	
Medium		120, 150	M	180	M	M	M	M	220	220, 240	120	220, 320
Fine			F	320	F	F	F	F			220, 320	400, 500, 600
Ultra-Fine				400		Extra-Fine	High Shine	High Shine	1000,1200	800	500	800, 1000, 1500

A

A. Gesswein® 50-Piece Polishing Set

A complete, compact set for every job from fast grinding to final finish. The set features a selection of our most popular rubberized abrasives in both straight- and knife-edged wheels, as well as rods which can be dressed to reach into the tiniest settings. Dressing stone included. The complete set includes:

- 5 Assorted Heatless Wheels: for fast grinding and brush finishing
- 10 Premium GK-10 Rubber Pumice Wheels: the industry standard for scratch removal and shaping
- 10 Assorted Black Wheels: for light scratch and bur removal
- 10 Assorted Pink Silicone Polishing Wheels: for ultra-high polish
- 5 Brown Prepolisher Rods: for scratch removal in settings or recessed areas
- 5 Green High Shine Rods: for fine polishing of settings and recessed areas
- Dressing Stone for Rods: shapes rods to fine point
- 6 Mandrels: 3/32" + 1/8" for Wheels
- 1 Mandrel: 3/32" for Rods

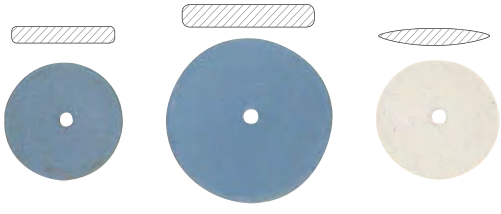
Description	Item#	Each
Gesswein 50-Piece Polishing Set	**145-0092**	**$31.95**

B

B. GK-10 Premium Rubber Pumice Wheel

Utilize pumice and extra-fine 320 grit aluminum oxide in a natural rubber bond for fast cutting, scratch removal, deburring and removing parting lines. Smooth finishing, long-lasting. Wheel has 1/16" arbor hole. See pp. 460-461 for mandrels. Maximum operating speed: 20,000rpm.

Style	Dia.	Item#	Pkg.(100)	Item#	Box (1,000)
KE Wheel	5/8"	**845-2060**	**$24.95**	**845-2061**	**$195.00**

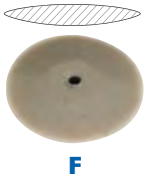


C D E

C-E Rubber Pumice Wheels

Soft, flexible rubber wheels compounded with pumice abrasive. The light action produces a smooth finish on gold, silver and soft metals. All with 1/16" arbor hole. See pp. 460-461 for mandrels. Maximum operating speed: 25,000rpm.

	Style	Dia. x Thick	Item#	Pkg.(10)	Item#	Box(100)
C.	822	5/8" x 3/32"	–	–	**845-2102**	**$51.95**
D.	888	7/8" x 1/8"	**845-2151**	**$8.85**	**845-2152**	**67.95**
E.	999	5/8" tapered	**845-2001**	**9.25**	**845-2002**	**69.95**



F

F. Silipum Rubber Pumice Wheels

A combination of silicone and pumice make this an excellent product for removing scratches around bezel and prong set stones. Safe for most stones and are long lasting. Max. operating speed: 20,000rpm. See pp. 460-461 for mandrels.

Style	Dia.	Item#	Pkg.(10)	Item#	Box(100)
KE Wheel	5/8"	**845-2059**	**$4.50**	**845-2058**	**$37.95**

Abrasive Wheel Operating Recommendations: Certain precautions should be observed when running any abrasive wheel. Be sure to wear proper eye protection, and never exceed the recommended operating speed stamped on the box or wheel. An improperly used wheel is dangerous. Be sure to comply with American National Standards Institute Safety Code B-7.1 and Occupational Safety and Health Act covering speed, safety guards, flanges, mounting procedures, general operating rules, handling, storage, inspection and general machine conditions.

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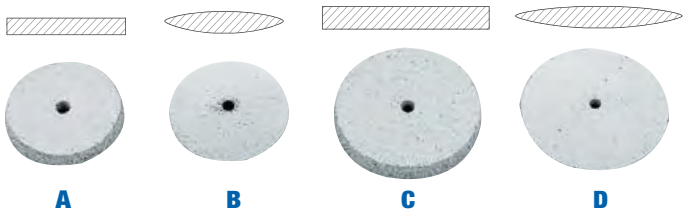
Dedeco® Rubberized Wheels

A tradition in excellence, Dedeco wheels have been a standard on the jeweler's bench for years, and with good reason: they come in a variety of grits (brown, green, red and white) and shapes (5/8" and 7/8" square- and knife-edge wheels and 1/4" cylinders), giving you the flexibility to finish any metal to a bright shine. These wheels feature a neoprene bond, are nonloading and easily dressed with a file. Maximum operating speed: 21,000rpm, (White Universal: 7,000rpm). Sold in boxes of 100. Have 1/16" arbor holes, see pp. 460-461 for mandrels. Brown is also available in 4" SE wheel. See p. 95 (#145-0085). Made in USA.

A-D White Universal – 100 Grit, Flexible

White (silicon carbide): Takes out scratches, parting lines and burs while leaving a very smooth finish with no flats or dusty residue.

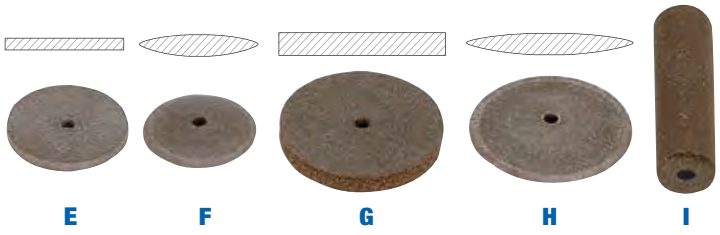
	Shape	Style	Dimensions	Item#	Box(100)
A.	SE Wheel	7102	5/8" x 3/32"	145-0111	$49.95
B.	KE Wheel	7108	5/8"	145-0113	49.95
C.	SE Wheel	7104	7/8" x 1/8"	145-0115	49.95
D.	KE Wheel	7110	7/8"	145-0117	49.95



E-I Brown Traditional – 120 Grit, Firm

Brown (aluminum oxide): Extra-long-lasting for fastest precious and nonprecious metal removal.

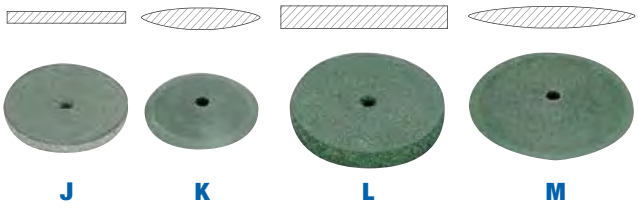
	Shape	Style	Dimensions	Item#	Box(100)
E.	SE Wheel	5030	5/8" x 1/16"	145-0071	$31.95
F.	KE Wheel	4982	5/8"	145-0073	37.95
G.	SE Wheel	5010	7/8" x 1/8"	145-0072	31.95
H.	KE Wheel	4983	7/8"	145-0074	37.95
I.	Cylinder	4595	1/4" x 15/16"	145-0075	31.95



J-M Green Traditional – 180 Grit, Flexible

Green (silicon carbide): Slightly finer than brown for removing file marks and scratches.

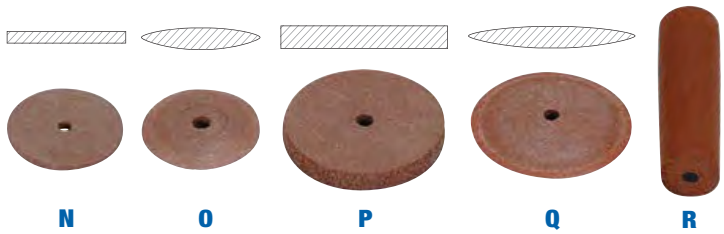
	Shape	Style	Dimensions	Item#	Box(100)
J.	SE Wheel	5021	5/8" x 1/16"	145-0076	$24.95
K.	KE Wheel	4951	5/8"	145-0062	28.45
L.	SE Wheel	5001	7/8" x 1/8"	145-0077	24.95
M.	KE Wheel	4950	7/8"	145-0063	28.45



N-R Red Flexies – 320 Grit, Flexible

Red (silicon carbide): For fine polishing of gold and other precious metals.

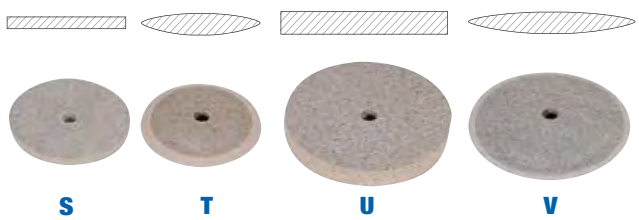
	Shape	Style	Dimensions	Item#	Box(100)
N.	SE Wheel	5027	5/8" x 1/16"	145-0079	$27.95
O.	KE Wheel	4971	5/8"	145-0081	31.95
P.	SE Wheel	5007	7/8" x 1/8"	145-0080	27.95
Q.	KE Wheel	4970	7/8"	145-0082	33.95
R.	Cylinder	4594	1/4" x 15/16"	145-0068	27.95



S-V White Flexies – 400 Grit, Flexible

White (aluminum oxide): For ultra-fine polishing of gold and other precious metals.

	Shape	Style	Dimensions	Item#	Box(100)
S.	SE Wheel	5029	5/8" x 1/16"	145-0064	$29.95
T.	KE Wheel	4981	5/8"	145-0083	35.95
U.	SE Wheel	5009	7/8" x 1/8"	145-0065	29.95
V.	KE Wheel	4980	7/8"	145-0084	35.95



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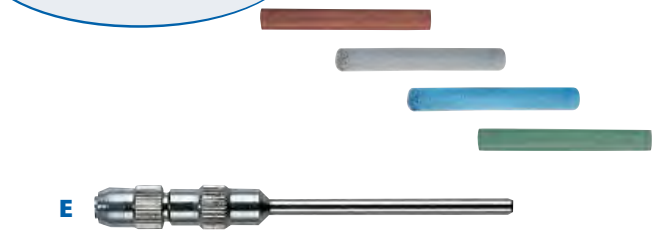
Edenta Polishers Natural Rubber – Silicon Carbide

This Swiss company is world famous for making the best quality and longest lasting Rubberized abrasive products, all manufactured under the stringent ISO 9001 guidelines. The abrasive is precision graded and then uniformly distributed throughout the rubber. This Natural Rubber bond is a far superior product as the wheels last over TWICE as long as Silicone and can operate at higher, more efficient speeds. Higher speeds create a brighter, shinier surface and require less pressure.

Brown TopStar Polishers remove light scratches and prepare surfaces for final polishing, max. operating speed: 20,000rpm. Pink Platinum Polishers work well as a prepolisher, max. operating speeds: 10,000rpm. The Gray Titanium Polisher is for removing scratches and flaws, max. operating speed: 20,000rpm, while Blue Titanium Polishers impart a final finish, max. operating speeds: 10,000rpm. Green TopStar Polishers impart a bright high shine, max. operating speed: 10,000rpm. **Mounted shapes have 3/32" shanks,** and unmounted shapes, except for rods have 1/16" arbor holes. See pp. 460-461 for mandrels. Made in Switzerland.

Longer Lasting Lowest Total Cost!



E

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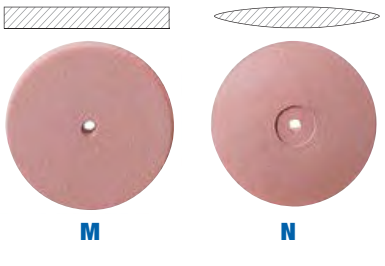

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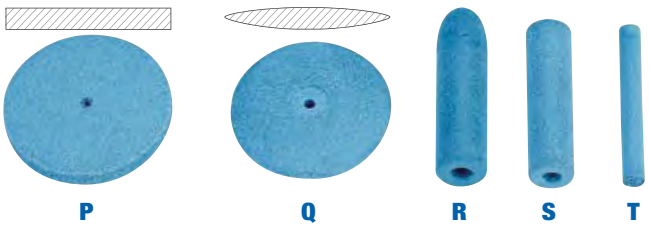

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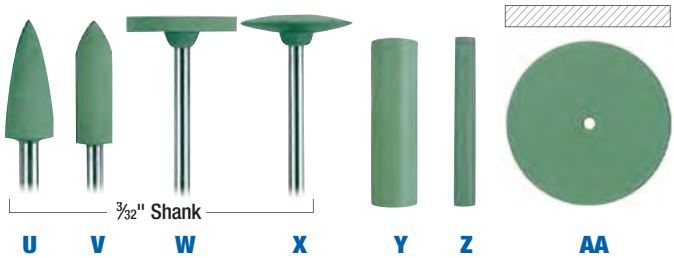

U V W X Y Z AA

A-E Rubber Polishing Rods SiC – 3mm Dia. x 22mm L

	Color	Grit	Item#	Pkg.(10)	Item#	Box(100)
A.	Brown	Medium/Coarse	145-1425	$7.90	145-1424	$69.50
B.	Grey	Medium	145-3201	7.90	145-3200	69.50
C.	Blue	Fine	145-3211	7.90	145-3210	69.50
D.	Green	Extra-Fine	145-1445	7.90	145-1444	69.50

	Description	Item#	EACH Prices 1-2	3+
E.	Mandrel for 3mm rod, 3/32" Shank	145-1419	$5.95	$5.36

F-L Brown TopStar Polishers – Prepolish, Flexible

	Shape	Dia. x L (mm)	Item#	Pkg.(10)	Item#	Box(100)
F.	Mtd. Point	5.5 x 15.5	145-1427	$18.00	145-1426	$165.00
G.	Mtd. Bullet	5 x 16	145-1429	18.00	145-1428	165.00
H.	SE Mtd. Wheel	14.5 x 2	145-1433	18.00	145-1432	165.00
I.	KE Mtd. Wheel	15	145-1431	18.00	145-1430	165.00
J.	Cylinder	6 x 22	145-1423	6.90	145-1422	63.00
K.	Rod	3 x 22	145-1425	7.90	145-1424	69.50
L.	SE Wheel	22 x 3	145-1421	6.90	145-1420	63.00

M, N Pink Platinum Polishers – Prepolish, Moderate Flex

	Shape	Dia. x L (mm)	Item#	Pkg.(10)	Item#	Box(100)
M.	SE Wheel	22 x 3	145-1487	$6.90	145-1486	$63.00
N.	KE Wheel	22	145-1485	6.90	145-1484	63.00

O. Gray Titanium Polisher – Medium, Flexible

	Shape	Dia. x L (mm)	Item#	Pkg.(10)	Item#	Box(100)
O.	Bullet	6 x 23	145-3205	$6.90	145-3204	$63.00

P-T Blue Titanium Polishers – Fine, Flexible

	Shape	Dia. x L (mm)	Item#	Pkg.(10)	Item#	Box(100)
P.	SE Wheel	22 x 3	145-3219	$7.90	145-3218	$69.50
Q.	KE Wheel	22 x 3	145-3217	7.90	145-3216	69.50
R.	Bullet	6 x 23	145-3215	7.90	145-3214	69.50
S.	Cylinder	6 x 22	145-3213	7.90	145-3212	69.50
T.	Rod	3 x 22	145-3211	7.90	145-3210	69.50

U-AA Green TopStar Polishers – High Shine, Flexible

	Shape	Dia. x L (mm)	Item#	Pkg.(10)	Item#	Box(100)
U.	Mtd. Point	5.5 x 15.5	145-1447	$18.00	145-1446	$165.00
V.	Mtd. Bullet	5 x 16	145-1449	18.00	145-1448	165.00
W.	SE Mtd. Wheel	14.5 x 2	145-1453	18.00	145-1452	165.00
X.	KE Mtd. Wheel	15	145-1451	18.00	145-1450	165.00
Y.	Cylinder	6 x 22	145-1443	6.90	145-1442	63.00
Z.	Rod	3 x 22	145-1445	7.90	145-1444	69.50
AA.	SE Wheel	22 x 3	145-1441	6.90	145-1440	63.00

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Silicone SiC Wheels and Points

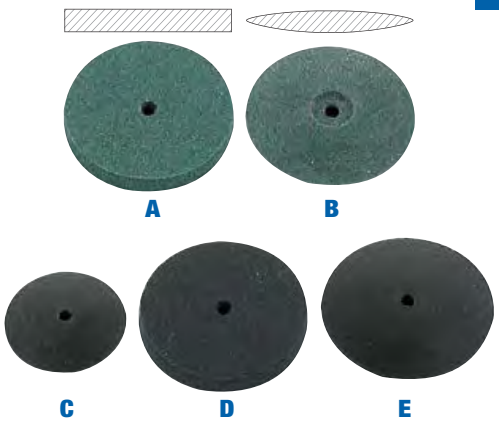
Fast-cutting silicon carbide abrasive is uniformly dispersed throughout a silicone rubber bond for smooth finishing of precious metals. Ideal for intricate surfaces because of their high flexibility. Follow contours exceptionally well. Cut well and leave a smooth finish ready for polishing. Available in 3 grits: Green (220 grit) for cutting, Black (240 grit) for removal of light tool and file marks, and Blue (280 grit) for medium-fast cutting while leaving a smooth finish. All with 1/16" arbor hole. Maximum operating speed: 10,000rpm. See pp. 460-461 for mandrels. Made in Germany.

A, B Green Silicone SiC – 220 Grit, Extremely Flexible

	Shape	Dia. x Thick	Item#	Pkg.(10)	Item#	Box(100)
A.	SE Wheel	7/8" x 1/8"	145-1371	$4.89	145-1370	$39.15
B.	KE Wheel	7/8"	145-1373	4.89	145-1372	39.15

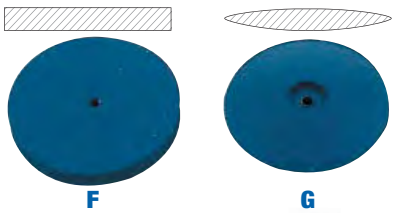
C-E Black Silicone SiC – 240 Grit, Very Flexible

	Shape	Dia. x Thick	Item#	Pkg.(10)	Item#	Box(100)
C.	KE Wheel	5/8"	145-0972	$4.30	145-0971	$34.50
D.	SE Wheel	7/8" x 1/8"	145-0974	4.30	145-0973	34.50
E.	KE Wheel	7/8"	145-0976	4.30	145-0975	34.50



F, G Blue Silicone SiC – 280 Grit, Flexible

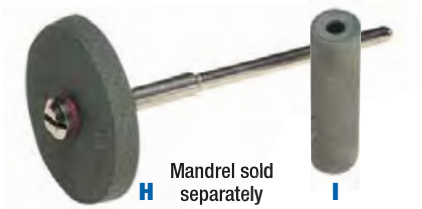
	Shape	Dimensions	Item#	Pkg.(10)	Item#	Box(100)
F.	SE Wheel	7/8" x 1/8"	145-0980	$4.95	145-0999	$40.35
G.	KE Wheel	7/8"	145-0982	4.95	145-0998	40.35



H, I Rubber SiC– 240 Grit

All-purpose, hard rubberized bond, gray in color. Contains 240 grit silicon carbide and can be used for light grinding of parting lines and scratches on both hard and soft metals. Both with 1/16" arbor hole. See pp. 460-461 for mandrels. Maximum operating speed: 30,000rpm.

	Type	Size	Item#	Box(100)
H.	Wheel	7/8" x 1/8"	845-2200	$17.85
I.	Cylinder	1/4" x 7/8"	845-2400	17.85

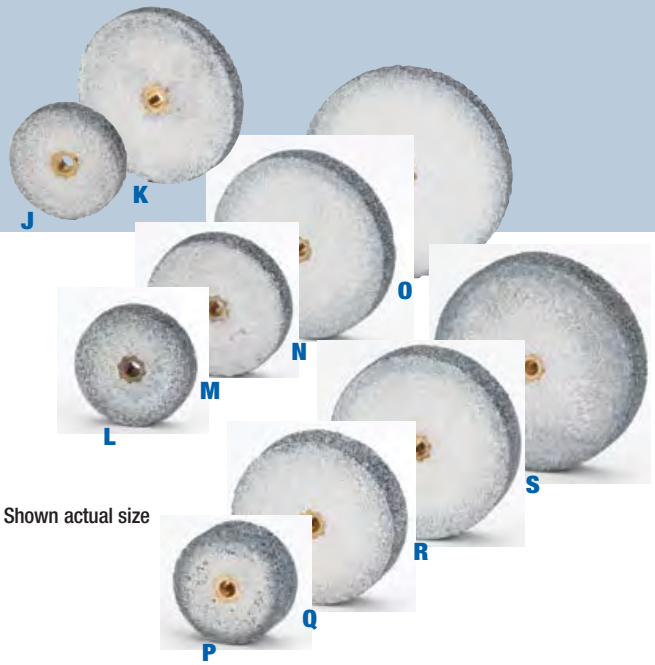


J-S Heatless Wheels – SiC in a Resinoid Bond

Especially useful in preparing contrast finishes and texturing—much coarser than a brushed satin finish. Also used for fast grinding and metal removal, these very hard wheels are made of silicon carbide in a resinoid bond. They break down quickly, constantly exposing new grit to produce a uniform, coarse, brushed-look finish with tiny highlights. Easily shaped with a file. 1/16" metal arbor hole. Maximum operating speed: 25,000rpm. (See mandrels, pp. 460-461)

Dia. x Thick	Item#	EACH Prices (10pc) 10-40	50+
J. 1/2" x 3/32"	845-0015	$0.45	$0.41
K. 3/4" x 3/32"	845-0009	0.45	0.41
L. 1/2" x 1/8"	845-0014	0.45	0.41
M. 5/8" x 1/8"	845-0011	0.45	0.41
N. 7/8" x 1/8"	845-0005	0.45	0.41
O. 1" x 1/8"	845-0002	0.45	0.41
P. 1/2" x 3/16"	845-0013	0.45	0.41
Q. 3/4" x 3/16"	845-0007	0.45	0.41
R. 7/8" x 3/16"	845-0004	0.45	0.41
S. 1" x 3/16"	845-0001	0.45	0.41

(10pc) *Ten-piece minimum; please order in multiples of ten.*



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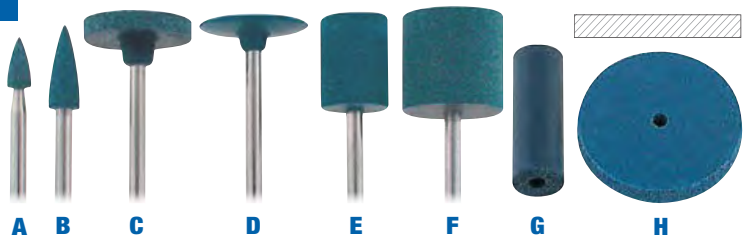
Poly Polishers Silicon Carbide

Superior results on all precious and nonprecious metals. Silicon carbide abrasive in a specially formulated polyurethane rubberized bond for long life—outlasts other types of rubber abrasives. Holds a crisp edge. Available in four color-coded grits (coarse blue, medium gray, fine prepolish brown, and high-shine green) to finish your castings and fabrications from rough to highly polished without getting up from the bench.

All our Polyurethane Polishers are available in a wide variety of shapes and sizes to finish any jewelry item from the largest ring shanks to the tiniest settings uniformly and without a lot of dressing to make them fit! Mounted abrasives are on **3/32" shanks.** Unmounted wheels and cylinders have 1/16" holes and can be mounted on mandrels shown on pp. 460-461. Maximum operating speed: 12,000rpm. Made in Germany.



3/32" Shank

A-H Blue Poly Polishers – Coarse, Slightly Flexible

	Shape	Dia. x L	Item#	Pkg.(100)
A.	Mtd. Point	3 x 7mm	145-1400	$95.00
B.	Mtd. Point	4 x 12mm	145-1114	95.00
C.	SE Mtd. Wheel	5/8" x 3/32"	145-1408	107.00
D.	KE Mtd. Wheel	5/8"	145-1118	107.00
E.	Mtd. Cylinder	10 x 12mm	145-1120	107.00
F.	Mtd. Cylinder	14 x 12mm	145-1122	173.90
G.	Cylinder	7 x 20mm	145-1112	42.35
H.	SE Wheel	7/8" x 1/8"	145-1110	42.35

3/32" Shank

I-P Gray Poly Polishers – Medium, Moderately Flexible

	Shape	Dia. x L	Item#	Pkg.(100)
I.	Mtd. Point	3 x 7mm	145-1402	$95.00
J.	Mtd. Point	4 x 12mm	145-1128	95.00
K.	SE Mtd. Wheel	5/8" x 3/32"	145-1410	107.00
L.	KE Mtd. Wheel	5/8"	145-1132	107.00
M.	Mtd. Cylinder	10 x 12mm	145-1134	107.00
N.	Mtd. Cylinder	14 x 12mm	145-1136	173.90
O.	Cylinder	7 x 20mm	145-1126	42.35
P.	SE Wheel	7/8" x 1/8"	145-1124	42.35

3/32" Shank

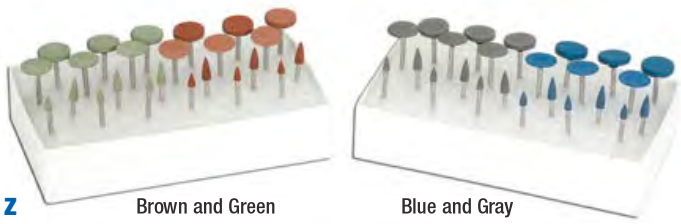
Q-U Brown Poly Polishers – Fine, Moderately Flexible

	Shape	Dia. x L	Item#	Pkg.(100)
Q.	Mtd. Point	3 x 7mm	145-1404	$95.00
R.	Mtd. Point	4 x 12mm	145-1142	95.00
S.	SE Mtd. Wheel	5/8" x 3/32"	145-1412	107.00
T.	KE Mtd. Wheel	5/8"	145-1146	107.00
U.	Mtd. Cylinder	14 x 12mm	145-1150	173.90

3/32" Shank

V-Y Green Poly Polishers – High Shine, Moderately Flexible

	Shape	Dia. x L	Item#	Pkg.(100)
V.	Mtd. Point	3 x 7mm	145-1406	$95.00
W.	Mtd. Point	4 x 12mm	145-1156	95.00
X.	SE Mtd. Wheel	5/8" x 3/32"	145-1414	107.00
Y.	KE Mtd. Wheel	5/8"	145-1160	107.00



Z. Poly Polisher Point & Wheel Sets

These 24-piece sets contain three of each shape of mounted polishing points and wheels on 3/32" shanks.

Description	Item#	Each
Brown and Green Poly Polisher Set	145-1100	$34.50
Blue and Gray Poly Polisher Set	145-1099	29.95

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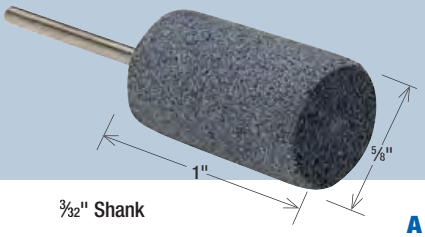
SX Mounted Polishers 3/32" Shank

Features large foam cell size constructed of resilient PVA (polyvinyl acetate) foam, for cool operation and long life. Firm enough to lap flat surfaces yet flexible enough to allow polishing of curved surfaces without gouging. Ideal for hard and soft metals such as platinum, palladium, stainless steel, gold, aluminum and brass. Gray polishers contain silicon carbide while the white polishers have aluminum oxide abrasive. Measure 15mm (5/8") dia. x 25mm (1") long with **3/32" shank.** Max. operating speed: 15,000rpm. Made in Japan.



3/32" Shank

A

	Description	Dimensions (mm)	Grit	Item#	EACH Prices 1-11	12+
A.	Gray Polisher - SiC	15 x 25	220	145-3280	$3.25	$2.93
		15 x 25	320	145-3281	3.25	2.93
		15 x 25	400	145-3282	3.50	3.15
		15 x 25	500	145-3286	3.85	3.47
		15 x 25	600	145-3283	3.85	3.47
		15 x 25	800	145-3284	4.10	3.69
		15 x 25	1000	145-3285	4.10	3.69
B.	White Polisher - AlO	15 x 25	1500	145-3288	4.90	4.41
8-Piece Set (one each of above)				145-3279	27.00	-

Shown actual size

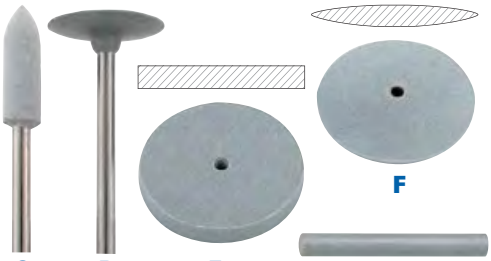
B

PT Platinum/Titanium Polishers

These polishers work especially well on titanium and platinum. Even abrasive distribution allows them to produce smooth, uniform surface finishes. Moderately hard silicone rubber impregnated with aluminum oxide conforms slightly to surfaces. All shapes hold their edges due to slow breakdown rate. Applications include removing tool marks, smoothing parting lines and removing casting scale. Choose from a variety of unmounted and mounted **3/32" shank** shapes. Available in two color-coded grits: medium (gray) and fine (lilac). See pp. 460-461 for mandrels. Maximum operating speed: 10,000rpm. Made in Germany.

C-G Gray PT Polishers – Medium for breakdown

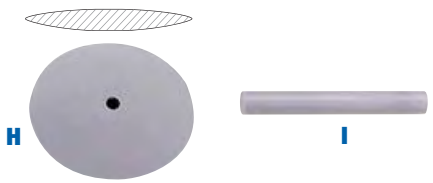
	Shape	Dimensions	Item#	Pkg.(10)	Item#	Box(100)
C.	Mtd. Point	3/16" x 5/8"	145-1347	$15.80	145-1346	$135.00
D.	KE Mtd. Wheel	5/8"	145-1353	15.80	145-1352	135.00
E.	SE Wheel	7/8" x 1/8"	145-1341	6.50	145-1340	55.00
F.	KE Wheel	7/8"	145-1343	6.50	145-1342	55.00
	Shape	**Dimensions**	**Item#**	**Pkg.(25)**	**Item#**	**Box(100)**
G.	Rod	3mm x 1"	145-1345	$15.65	145-1344	$55.00



3/32" Shank

H, I Lilac PT Polisher – Fine for prepolish

	Shape	Dimensions	Item#	Pkg.(10)	Item#	Box(100)
H.	KE Wheel	7/8"	145-1359	$6.50	145-1358	$55.00
	Shape	**Dimensions**	**Item#**	**Pkg.(25)**	**Item#**	**Box(100)**
I.	Rod	3mm x 1"	145-1361	$15.65	145-1360	$55.00



J. Diamond-Coated Dressing Block

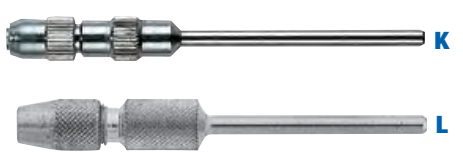
Solid steel block with diamond coating for fast dressing and shaping of any of our rubberized abrasives. One side is grooved for shaping rods, points and knife-edged wheels. The other side is flat for dressing square-edged wheels. Measures 3½" overall length (including handle).

Description	Item#	Each
Diamond-Coated Dressing Block	145-1316	$48.00

K, L Rod Mandrels – 3/32" Shank

Precision-machined mandrels for smooth-as-silk opening and closing. Holds 3mm rods securely with a twist-tightening grip. Nickel-plated tool steel.

Description	Item#	EACH Prices 1-2	3+
K. Edenta TopStar Mandrel for 3mm rod	145-1419	$5.95	$5.36
L. Polishing Mandrel for 3mm rod	145-1218	4.10	3.69



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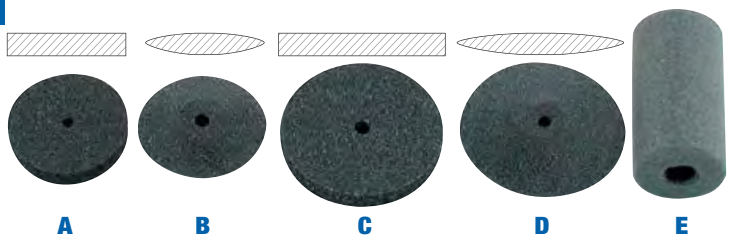
Gesswein® Elite Silicon Carbide

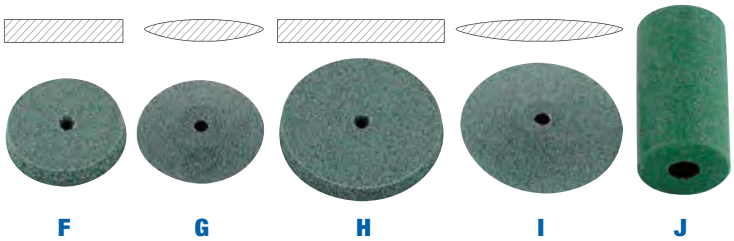
These popular wheels and cylinders contain silicon carbide grit for the most efficient cutting of nonferrous metals. Feature a more flexible silicone rubber bond that allows them to cut aggressively yet leave a smooth enough finish to go right to final polishing. Have 1/16" arbor holes see pp. 460-461 for wheel mandrels, and see below for cylinder mandrels.



A-E Gray Elite Silicone – 180 Grit, Very Flexible

Use Gray Silicone to remove deep scratches and burs quickly, max. operating speed: 10,000rpm.

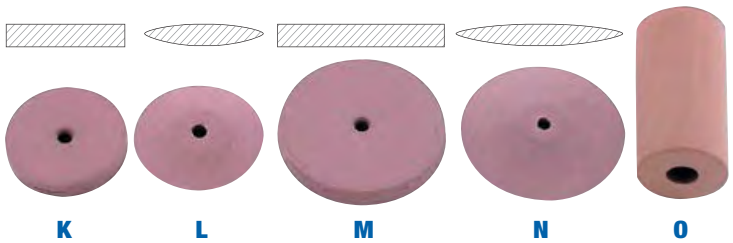
	Shape	Item#	Pkg.(10)	Item#	Box(100)
A.	SE 5/8" x 1/8"	145-0016	$4.90	145-0017	$39.95
B.	KE 5/8"	145-0018	4.90	145-0019	39.95
C.	SE 7/8" x 1/8"	145-0020	4.90	145-0021	39.95
D.	KE 7/8"	145-0022	4.90	145-0023	39.95
E.	Cyl. 1/2" x 1"	145-0141	17.25	–	



F-J Green Elite Silicone – 220 Grit, Very Flexible

Use Green Silicone for removing light scratches, max. operating speed: 10,000rpm.

	Shape	Item#	Pkg.(10)	Item#	Box(100)
F.	SE 5/8" x 1/8"	145-0108	$4.90	145-0109	$39.95
G.	KE 5/8"	145-0010	4.90	145-0011	39.95
H.	SE 7/8" x 1/8"	145-0012	4.90	145-0013	39.95
I.	KE 7/8"	145-0014	4.90	145-0015	39.95
J.	Cyl. 1/2" x 1"	145-0142	17.25	–	



K-O Pink Elite Silicone – 1000 Grit, Very Flexible

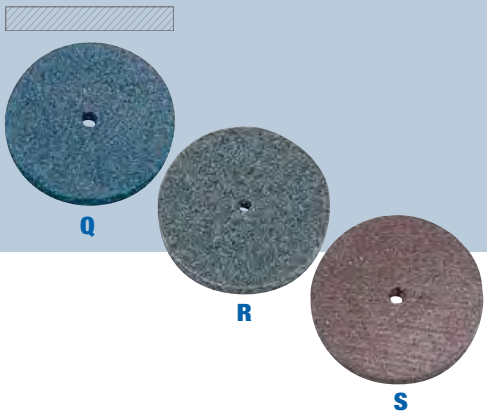
Use Pink Silicone to produce a high shine, max. operating speed: 10,000rpm.

	Shape	Item#	Pkg.(10)	Item#	Box(100)
K.	SE 5/8" x 1/8"	145-0988	$5.75	145-0989	$46.95
L.	KE 5/8"	145-0990	5.75	145-0991	46.95
M.	SE 7/8" x 1/8"	145-0984	5.75	145-0985	46.95
N.	KE 7/8"	145-0986	5.75	145-0987	46.95
O.	Cyl. 1/2" x 1"	145-0143	20.50	–	

P. Elite Inside Ring Cylinder Kit

Includes one each of all three Elite 1/2" x 1" Cylinders listed above and Mandrel #145-0146. Mandrel also sold separately.

	Description	Item#	Each
P.	Cylinder Kit	145-0150	$7.85
	1/8" Shank Mandrel	145-0146	3.50



Q-S AirFlex Silicone Wheels – Silicone Carbide

Tiny pockets of air are uniformly interspersed throughout our AirFlex wheels, so they grind and polish quickly without overheating the workpiece. AirFlex Blue (coarse) quickly removes rough surfaces, burs and tool marks. AirFlex Gray (medium) removes medium-grit file marks and leaves a matte finish. AirFlex Brown (fine) removes light scratches and leaves a bright surface. AirFlex wheels work equally well on all precious alloys, including stainless steel and titanium. Flexible AirFlex follows contours and leaves a smooth, uniform finish. Made of silicon carbide abrasive in a silicone rubber bond. The 7/8" square edge wheels are 1/8" thick with 1/16" arbor hole. See pp. 460-461 for mandrels. Max. operating speed: 10,000rpm.

	AirFlex	Dia. x Thick	Grit	Pkg. of 10 Item#	Pkg. of 10 Each	Box of 100 Item#	Box of 100 Each
Q.	Blue (coarse)	7/8" x 1/8"	80	145-1106	$5.40	145-1107	$48.00
R.	Gray (medium)	7/8" x 1/8"	240	145-1108	5.40	145-1109	48.00
S.	Brown (fine)	7/8" x 1/8"	800	145-1104	5.40	145-1105	48.00

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A-I Polyurethane Polishing Rods – SiC

Very popular, long lasting rods are designed for cleaning and polishing castings and metal parts. All are silicone carbide in a polyurethane carrier and can be shaped using our Dressing Stone #145-1240 shown below. Available in three sizes and various grits for all applications.

Each 83-piece set includes both 2 and 3mm sizes, two mandrels (3/32" shank) and a dressing stone to sharpen rods to a fine point. Packaged in a convenient reusable plastic storage box with cover. Choose between Brown and Green or Blue and Gray sets. Maximum operating speed: 21,000rpm. Made in Germany.

	Color	Grit	Dia. x L	Item#	Pkg.(25)	Item#	Box(100)
A.	Dk. Brown	Extra-coarse	2 x 20mm	145-1270	$10.50	145-1241	$36.60
		Extra-coarse	3 x 23mm	145-1271	10.50	145-1242	36.60
		Extra-coarse	4 x 25mm	145-1272	12.95	145-1243	45.40
B.	Blue	Coarse	2 x 20mm	145-1273	10.50	145-1244	36.60
		Coarse	3 x 23mm	145-1274	10.50	145-1245	36.60
		Coarse	4 x 25mm	145-1275	12.95	145-1246	45.40
C.	Dk. Gray	Medium	2 x 20mm	145-1276	10.50	145-1247	36.60
		Medium	3 x 23mm	145-1277	10.50	145-1248	36.60
		Medium	4 x 25mm	145-1278	12.95	145-1249	45.40
D.	Gray	Medium	3mm x 1"	145-1345	15.65	145-1344	55.00
E.	Lilac	Fine	3mm x 1"	145-1361	15.65	145-1360	55.00
F.	Brown	Fine	2 x 20mm	145-1279	10.50	145-1250	36.60
		Fine	3 x 23mm	145-1280	10.50	145-1251	36.60
G.	Green	Extra Fine	2 x 20mm	145-1282	10.50	145-1253	36.60
		Extra Fine	3 x 23mm	145-1283	10.50	145-1254	36.60

	Description	Item#	Each
H.	83-Piece Set (20 of each 2 and 3mm Brown and Green rods, two mandrels and a dressing stone)	145-1201	$31.25
I.	83-Piece Set (20 of each 2 and 3mm Blue and Dark Gray rods, two mandrels and a dressing stone)	145-1202	31.25

J, K Edenta TopStar Rod Mandrels – 3/32" Shank

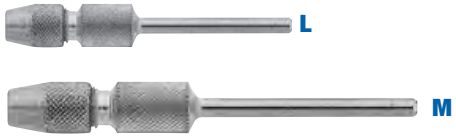
Precision-machined for smooth-as-silk opening and closing. 2mm or 3mm rods. Swiss made.

	Description	Item#	EACH Prices 1-2	3+
J.	Mandrel for 2mm rod	145-1418	$5.95	$5.36
K.	Mandrel for 3mm rod	145-1419	5.95	5.36

L, M Polishing Rod Mandrels – 3/32" Shank

For use with rods. Holds securely with a twist-tightening grip. Nickel-plated tool steel. Made in Germany.

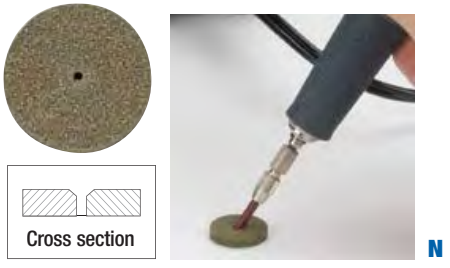
	Description	Item#	EACH Prices 1-2	3+
L.	Mandrel for 2mm rod	145-1217	$3.85	$3.47
M.	Mandrel for 3mm rod	145-1218	4.10	3.69
	Mandrel for 4mm rod	145-1219	4.10	3.69



N. Diamond Impregnated Dressing Stone

Has a concave center hole for forming a point on polishing rods. Measures 3/4" dia. x 1/8" thick.

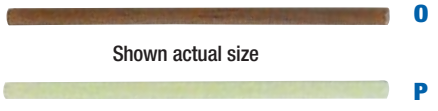
Description	Item#	Each
Dressing Stone	145-1240	$5.40



O, P Everlast Ceramic Polishing Rods – For hard and soft metals

Durable, long-lasting ceramic in an epoxy resin. Ideal for smoothing and polishing inside holes and hard-to-reach areas. Easily shaped to a fine point. Can be mounted directly into any flex shaft handpiece. For gold, silver, platinum, steel, titanium, brass, etc. Max. operating speed: 60,000rpm. Imported from Japan.

	Grit	Color	Dia. x L	Item#	Each
O.	600	Brown	3/32" x 2"	145-0200	$22.50
P.	1000	Green	3/32" x 2"	145-0205	22.50



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Cera Wheels & Points

Ceramic abrasive and synthetic rubber for a mirror-like shine

This revolutionary abrasive consists of ceramic particles mixed in a long-lasting synthetic rubber carrier. Its fast breakdown rate ensures ceramic particles are always exposed to the polishing surface. Resists clogging for high efficiency. Blends well and removes stoning scratches with ease, leaving a smooth finish with minimal wear. Cuts safely and smoothly. Great for cleaning, deburring, precision grinding, polishing and super finishing of molds, dies, small electrical components, sensitive equipment and more. Use dry or wet on steels, alloys and stainless steel. Work with light pressures. Choose from points, wheels and sticks. Refer to chart at right for grit designations. Made in Japan.

Color	Designation	Approx. Grit
Gray	Extra-Coarse	46
Red	Coarse	80
Blue	Medium	120
Green/Yellow	Fine	220
Purple	Extra-Fine	320
Orange	Ultra-Fine	500

A-D Cera Points – 3/32" Shank, 3mm Shanks available

Points mounted on 3/32" stainless steel shanks. Max. operating speed: 24,000rpm.

Dimensions (mm)	Red 80 Item#	Blue 120 Item#	Green 220 Item#	Purple 320 Item#	Orange 500 Item#	EACH Prices 1-9	10+*
A. 10 x 22	351-0624	351-0625	351-0626	351-0627	351-0628	$7.04	$6.34
B. 5 x 15	351-0600	351-0601	351-0603	351-0604	351-0605	5.89	5.30
C. 8 x 20	351-0606	351-0607	351-0609	351-0610	351-0611	5.89	5.30
D. 10 x 20	351-0612	351-0613	351-0615	351-0616	351-0617	5.89	5.30

******Quantity discount for orders of one item number only; not assorted.*

Wondering which grit of CERA will work for your application? Try our money-saving set of the most popular 5 x 15 shape. One of each grit (Red 80, Blue 120, Green 220, Purple 320 and Orange 500).

Description	Item#	Each
Cera Point Starter Set	351-0629	$24.95

E-G Cera Wheels

Unmounted wheels with 1/16" arbor holes. Max. operating speed: 18,000rpm. See pp. 460-461 for mandrels.

Dimensions (mm)	Red 80 Item#	Blue 120 Item#	Green 220 Item#	Orange 500 Item#	PKG. of 10 1-4	5+*
E. 18 x 3	352-0101	352-0102	352-0103	352-0104	$27.39	$24.65
F. 18 x 2	–	352-0108	352-0109	352-0111	27.39	24.65
G. 18 x 1	–	352-0114	352-0115	352-0117	27.39	24.65

******Quantity discount for orders of one item number only; not assorted.*

H. Cera Sticks

Each stick consists of a block of Cera abrasive mounted on a plastic holder. Material and holder are both flexible, so they conform well to irregular surfaces and hard-to-reach areas. Three slots on back of holder serve as convenient hacksaw guides for removing tip of Cera material once worn. Blocks measure 2 3/4"L x 3/8"W x 1/4"T. Sticks measure 7" overall length. Available individually or in a set of all five grits.

Color	Appox. Grit	Item#	EACH Prices 1-4	5+
Gray	46	352-0150	$15.73	$14.16
Red	80	352-0151	15.73	14.16
Blue	120	352-0152	15.73	14.16
Yellow	220	352-0153	15.73	14.16
Purple	320	352-0154	15.73	14.16

Description	Item#	Each
H. 5-Piece Set	352-0155	$64.68

I. Diamond Dressing Block

Solid steel block with diamond coating for fast dressing and shaping of any of our rubberized abrasives. One side is grooved for shaping rods, points and knife edge wheels. Other side is flat for dressing square edge wheels. Measures 3 1/2" overall length.

Description	Item#	Each
Diamond Dressing Block	145-1316	$48.00

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Brightboy® Aluminum Oxide

Brightboy is made of aluminum oxide with a resilient rubber bond, making it long-lasting. Its uniform cutting action makes it ideal for deburring and scratch removal on nonferrous metals. Also for light grinding of carbon steel. Permits cushioned action on flat and contoured surfaces. The texture and cutting action are always uniform. Brightboy is approximately 70 grit and requires no additives such as cutting compounds. Not for use on tapered spindles. See pp. 460-461 for mandrels, p. 400 for arbors.

A. Brightboy® Wheels

	Dia. x Thick x AH	Max. RPM	Style	Item#	EACH Prices 1-9	10+
	1½" x 3/16" x ¼"	10,125	5	**275-0050**	**$13.50**	**$9.45**
	2" x ¼" x ¼"	7,625	17	**275-0170**	**21.40**	**14.98**
	3" x ⅜" x ¼"	5,060	30	**275-0300**	**58.00**	**40.60**
	3" x ½" x ¼"	5,060	31	**275-0310**	**30.40**	**21.28**
	4" x ¼" x ½"	3,800	38	**275-0380**	**34.10**	**23.87**
	4" x ½" x ½"	3,800	40	**275-0400**	**85.00**	**59.50**
A.	4" x ¾" x ½"	3,800	41	**275-0410**	**103.00**	**72.10**

A

B-D Brightboy® Discs

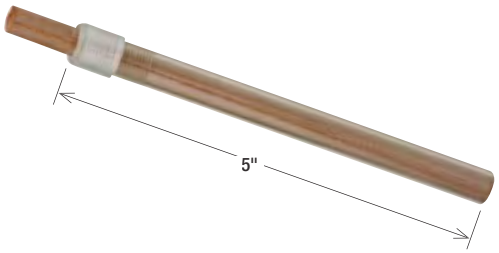
	Dia. x Thick x AH	Max. RPM	Shape	Pkg. of 10 Item#	Each	BOX of 100 Item#	Each
B.	⅝" x 1/16" x 1/16"	25,000	KE	**277-0031**	**$31.00**	**277-0032**	**$180.00**
C.	⅝" x ⅛" x 1/16"	25,000	SE	**277-0061**	**15.50**	**277-0062**	**89.50**
D.	⅝" x ¼" x 1/16"	25,000	SE	**277-0071**	**16.95**	**277-0072**	**199.00**

B C D

E. Brightboy® Stick and Holder

Excellent for touch-ups and removal of light scratches. Used for cleaning otherwise unreachable deep cavities. Made of flexible rubber. Reusable clear plastic holder has screw-on collet that gives support and gripping power. Stick can be exposed or withdrawn as desired and is easily dressed to the best shape for the job. Also removes rust, heat marks and stains from soft and hard metals. Sticks measure 6"L x 5/16" diameter.

	Description	Item#	Each
E.	Brightboy Stick and Holder	**277-0065**	**$18.75**
	Brightboy Coarse Refill 5/16"dia.	277-0063	14.95

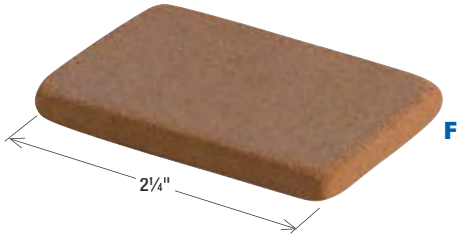


E

F. Brightboy® Tablet

Used for removing scratches or rust and for general surface cleaning and finishing.

Description	Dimensions	Item#	Each
Tablet	2¼"L x 1⅛"W x ⅜"H	**277-0066**	**$10.95**

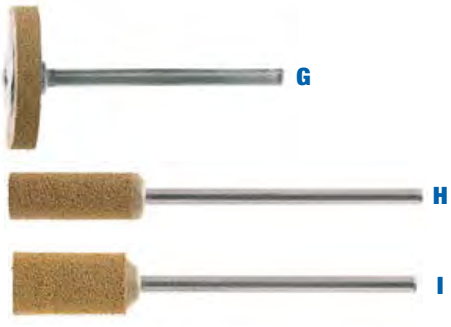


F

G-I Elasto Wheels and Cylinders - ⅛" Shanks

Aluminum Oxide is combined with rubber to produce smooth running cushioned abrasive wheels and cylinders. They cut and polish very quickly, are load resistant and can easily be dressed. Use for polishing mold runners, deburring and descaling metal parts. Made in Germany.

Shape/Dimensions	80 Grit	180 Grit	240 Grit	400 Grit	EACH Prices 1-11	12+*
G. Wheel ¾" x ⅛"	**845-1110**	**845-1111**	**845-1112**	**845-1113**	**$3.40**	**$2.89**
H. Cylinder ¼" x ⅝"	**845-1120**	**845-1121**	**845-1122**	**845-1123**	**4.25**	**3.61**
I. Cylinder 5/16" x ⅝"	**845-1130**	**845-1131**	**845-1132**	**845-1133**	**4.70**	**4.00**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I

Abrasive Wheel Operating Recommendations: Certain precautions should be observed when running any abrasive wheel. Be sure to wear proper eye protection, and never exceed the recommended operating speed stamped on the box or wheel. An improperly used wheel is dangerous. Be sure to comply with American National Standards Institute Safety Code B-7.1 and Occupational Safety and Health Act covering speed, safety guards, flanges, mounting procedures, general operating rules, handling, storage, inspection and general machine conditions.

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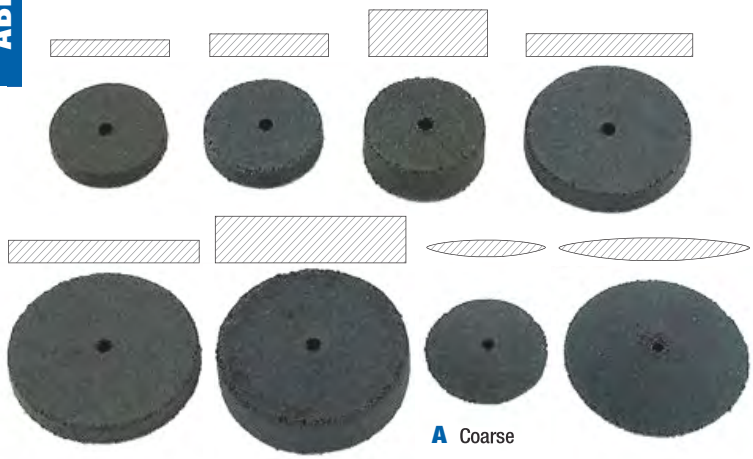
Cratex® Small Wheels Tough, resilient, rubberized Silicon Carbide abrasive

Utilizes silicon carbide as the abrasive grain in a standard bond of premium grade, oil-resistant chemical rubber. Its unique cushioned action allows the abrasive grains to cut freely, smoothly and softly without gouging or digging into the work surface.

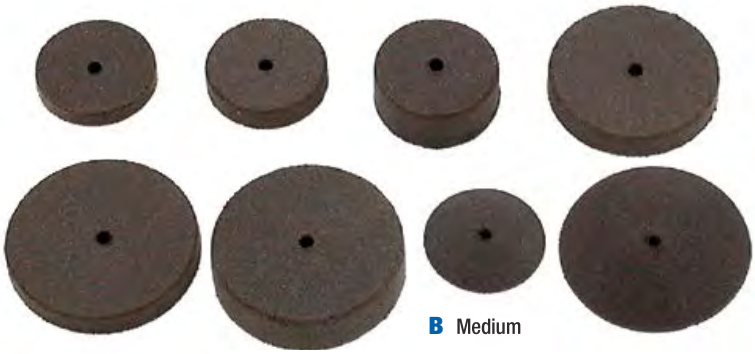
Some typical applications:

- Cleaning and polishing to remove surface deposits.
- Polishing and smoothing to improve performance, appearance and cleanliness.
- Ideal for work on jewelry, plastic parts, small castings and models.

Color	Approx. Grit
Dark Green	Coarse 40
Brown	Medium 90
Red	Fine 120
Light Green	Extra-Fine 240



A Coarse



B Medium

C Fine

D Extra-Fine

A-D Cratex® Small Wheels – Square and Knife Edge

All have 1/16" arbor hole. Maximum operating speed: 25,000rpm. See facing page for Cratex mandrels.

	Grit	Shape	Dia. x Thick.	Style	Item#	Box(100)
A.	Coarse, 40	SE	5/8" x 3/32"	53C	**149-0053**	**$49.98**
		SE	5/8" x 1/8"	54C	**149-0054**	**60.20**
		SE	5/8" x 1/4"	59C	**149-0059**	**74.68**
		SE	7/8" x 1/8"	74C	**149-0074**	**63.50**
		SE	1" x 1/8"	80C	**149-0080**	**81.85**
		SE	1" x 1/4"	88C	**149-0088**	**125.69**
		KE	5/8" x 3/32"	2C	**149-0002**	**50.40**
		KE	1" x 1/8"	5C	**149-0005**	**79.25**
B.	Medium, 90	SE	5/8" x 3/32"	53M	**148-0053**	**49.98**
		SE	5/8" x 1/8"	54M	**148-0054**	**60.20**
		SE	5/8" x 1/4"	59M	**148-0059**	**74.68**
		SE	7/8" x 1/8"	74M	**148-0074**	**63.50**
		SE	1" x 1/8"	80M	**148-0080**	**81.85**
		SE	1" x 1/4"	88M	**148-0088**	**81.85**
		KE	5/8" x 3/32"	2M	**148-0002**	**45.50**
		KE	1" x 1/8"	5M	**148-0005**	**79.25**
C.	Fine, 120	SE	5/8" x 3/32"	53F	**147-0053**	**49.98**
		SE	5/8" x 1/8"	54F	**147-0054**	**60.20**
		SE	5/8" x 1/4"	59F	**147-0059**	**74.68**
		SE	7/8" x 1/8"	74F	**147-0074**	**63.50**
		SE	1" x 1/8"	80F	**147-0080**	**81.85**
		SE	1" x 1/4"	88F	**147-0088**	**125.69**
		KE	5/8" x 3/32"	2F	**147-0002**	**45.50**
		KE	1" x 1/8"	5F	**147-0005**	**79.25**
D.	Extra-Fine, 240	SE	5/8" x 3/32"	53XF	**146-0053**	**49.98**
		SE	5/8" x 1/8"	54XF	**146-0054**	**60.20**
		SE	5/8" x 1/4"	59XF	**146-0059**	**74.68**
		SE	7/8" x 1/8"	74XF	**146-0074**	**63.50**
		SE	1" x 1/8"	80XF	**146-0080**	**81.85**
		SE	1" x 1/4"	88XF	**146-0088**	**125.69**
		KE	5/8" x 3/32"	2XF	**146-0002**	**45.50**
		KE	1" x 1/8"	5XF	**146-0005**	**79.25**

E. Cratex® Set #777

Contains 80 small wheels and points in popular sizes including coarse, medium, fine and extra-fine grits. Four mandrels with 1/8" shanks are in the set. Packaged in a clear divided box for easy selection.

Description	Item#	Each
Cratex Set #777	**146-7770**	**$84.42**

E

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Cratex® Large Wheels Silicon Carbide

Feature the same tough, resilient, rubberized silicon carbide abrasive in a standard bond of oil-resistant chemical rubber as the small wheels. Unique cushioned action allows the abrasive grains to cut freely, smoothly and softly without gouging or digging into the work surface.

These square-edge wheels have either ¼" or ½" arbor holes. See chart for maximum operating speeds. Frequently, speeds between 30% and 80% slower than the maximum will yield optimal results

Diameter	Max. Operating Speed
2" with ¼" arbor hole	10,500rpm
2½" with ¼" arbor hole	8,300rpm
3" with ¼" arbor hole	7,000rpm
4" with ½" arbor hole	5,250rpm
5" with ½" arbor hole	4,200rpm
6" with ½" arbor hole	3,500rpm

A-D Cratex® Large Wheels – Square Edge

	Grit	Shape	Dia. x Thick x AH	Style	Item#	Each
A.	Coarse, 40	SE Wheel	2" x ¼" x ¼"	204C	**149-0204**	**$8.69**
		SE Wheel	3" x ⅛" x ¼"	302C	**149-0302**	**12.40**
		SE Wheel	3" x ½" x ¼"	308C	**149-0308**	**23.04**
		SE Wheel	4" x ¼" x ½"	404C	**149-0404**	**21.75**
		SE Wheel	4" x ½" x ½"	408C	**149-0408**	**30.80**
		SE Wheel	6" x ¼" x ½"	604C	**149-0604**	**46.79**
		SE Wheel	6" x ½" x ½"	608C	**149-0608**	**60.35**
B.	Medium, 90	SE Wheel	2" x ¼" x ¼"	204M	**148-0204**	**8.69**
		SE Wheel	3" x ⅛" x ¼"	302M	**148-0302**	**12.40**
		SE Wheel	3" x ½" x ¼"	308M	**148-0308**	**23.04**
		SE Wheel	4" x ¼" x ½"	404M	**148-0404**	**21.75**
		SE Wheel	4" x ½" x ½"	408M	**148-0408**	**30.80**
		SE Wheel	6" x ¼" x ½"	604M	**148-0604**	**46.79**
		SE Wheel	6" x ½" x ½"	608M	**148-0608**	**60.35**
		SE Wheel	6" x ¾" x ½"	612M	**148-0612**	**81.34**
C.	Fine, 120	SE Wheel	2" x ¼" x ¼"	204F	**147-0204**	**8.69**
		SE Wheel	3" x ⅛" x ¼"	302F	**147-0302**	**12.40**
		SE Wheel	3" x ½" x ¼"	308F	**147-0308**	**23.04**
		SE Wheel	4" x ¼" x ½"	404F	**147-0404**	**21.75**
		SE Wheel	4" x ½" x ½"	408F	**147-0408**	**30.80**
		SE Wheel	6" x ¼" x ½"	604F	**147-0604**	**46.79**
		SE Wheel	6" x ½" x ½"	608F	**147-0608**	**60.35**
		SE Wheel	6" x ¾" x ½"	612F	**147-0612**	**81.34**
D.	Extra Fine, 240	SE Wheel	2" x ¼" x ¼"	204XF	**146-0204**	**8.69**
		SE Wheel	3" x ⅛" x ¼"	302XF	**146-0302**	**12.40**
		SE Wheel	3" x ½" x ¼"	308XF	**146-0308**	**23.04**
		SE Wheel	4" x ¼" x ½"	404XF	**146-0404**	**21.75**
		SE Wheel	4" x ½" x ½"	408XF	**146-0408**	**28.65**
		SE Wheel	6" x ¼" x ½"	604XF	**146-0604**	**46.75**
		SE Wheel	6" x ½" x ½"	608XF	**146-0608**	**60.35**

A

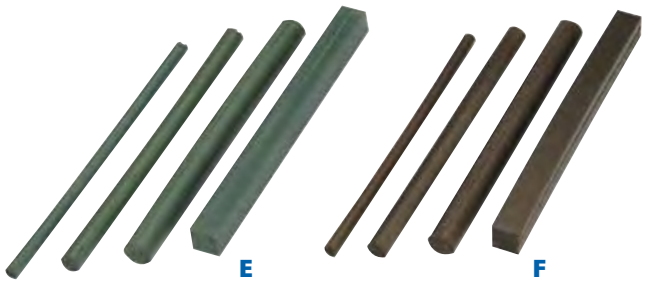
B

C

D

E-H Cratex® Blocks and Sticks

	Grit	Shape	Dia. x Thick.	Style	Item#	Each
E.	Coarse, 40	Round	¼" x 6"	046C	**149-0046**	**$6.45**
		Round	⅜" x 6"	066C	**149-0066**	**7.38**
		Round	½" x 6"	086C	**149-0090**	**10.28**
		Square	½" x 6"	6404C	**149-6404**	**12.40**
F.	Medium, 90	Round	¼" x 6"	046M	**148-0046**	**6.45**
		Round	⅜" x 6"	066M	**148-0066**	**7.38**
		Round	½" x 6"	086M	**148-0090**	**10.28**
		Square	½" x 6"	6404M	**148-6404**	**12.40**
G.	Fine, 120	Round	¼" x 6"	046F	**147-0046**	**6.45**
		Round	⅜" x 6"	066F	**147-0066**	**7.38**
		Round	½" x 6"	086F	**147-0090**	**10.30**
		Square	½" x 6"	6404F	**147-6404**	**12.40**
H.	Extra Fine, 240	Round	¼" x 6"	046XF	**146-0046**	**6.47**
		Round	⅜" x 6"	066XF	**146-0066**	**7.38**
		Round	½" x 6"	086XF	**146-0090**	**10.28**
		Square	½" x 6"	6404XF	**146-6404**	**12.40**


E F

G H

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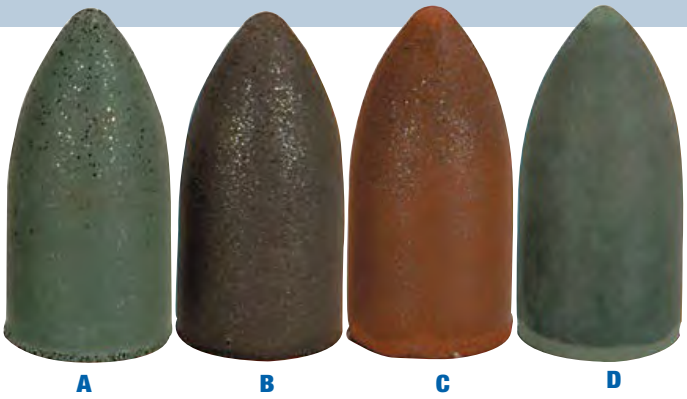
Cratex® Bullets, Cylinders & Points Silicon Carbide

Utilizes silicon carbide as the abrasive grain in a standard bond of premium grade, oil-resistant chemical rubber. Its unique cushioned action allows the abrasive grains to cut freely, smoothly and softly without gouging or digging into the work surface.

Some typical applications:

- Cleaning and polishing to remove surface deposits.
- Polishing and smoothing to improve performance, appearance and cleanliness.
- Ideal for work on jewelry, plastic parts, small castings and models.

Color	Approx. Grit
Dark Green	Coarse 40
Brown	Medium 90
Red	Fine 120
Light Green	Extra-Fine 240



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A-D Cratex® Bullets

All have ¼" arbor hole and threaded insert. See below for Cratex mandrels. Maximum operating speed: 20,000rpm.

	Grit	Shape	Dia. x Thick.	Style	Item#	Each
A.	Coarse, 40	Bullet	⅞" x 1¾"	4707C	**149-4707**	**$16.20**
B.	Medium, 90	Bullet	⅞" x 1¾"	4707M	**148-4707**	**16.20**
C.	Fine, 120	Bullet	⅞" x 1¾"	4707F	**147-4707**	**16.20**
D.	Extra Fine, 240	Bullet	⅞" x 1¾"	4707XF	**146-4707**	**16.20**

E-H Cratex® Cylinders and Points

All have 1/16" arbor hole. See below for Cratex mandrels. Maximum operating speed: 25,000rpm.

	Grit	Shape	Dia. x Thick.	Style	Item#	Box(100)
E.	Coarse, 40	Cylinder	¼" x ½"	4C	**149-0004**	**$56.14**
		Cylinder	¼" x ⅞"	6C	**149-0006**	**65.70**
		Point	9/32" x 1"	8C	**149-0008**	**65.70**
		Point	⅜" x ⅝"	10C	**149-0010**	**69.65**
F.	Medium, 90	Cylinder	¼" x ½"	4M	**148-0004**	**56.14**
		Cylinder	¼" x ⅞"	6M	**148-0006**	**65.70**
		Point	9/32" x 1"	8M	**148-0008**	**65.70**
		Point	⅜" x ⅝"	10M	**148-0010**	**69.65**
G.	Fine, 120	Cylinder	¼" x ½"	4F	**147-0004**	**56.15**
		Cylinder	¼" x ⅞"	6F	**147-0006**	**65.70**
		Point	9/32" x 1"	8F	**147-0008**	**65.70**
		Point	⅜" x ⅝"	10F	**147-0010**	**69.65**
H.	Extra Fine,240	Cylinder	¼" x ½"	4XF	**146-0004**	**56.14**
		Cylinder	¼" x ⅞"	6XF	**146-0006**	**62.72**
		Point	9/32" x 1"	8XF	**146-0008**	**65.70**
		Point	⅜" x ⅝"	10XF	**146-0010**	**69.65**

I. Cratex® Set #778

Contains 64 points in 4 different grits plus 4 mandrels with ⅛" shanks. Packaged in a clear divided box for easy selection.

Description	Item#	Each
Cratex Set #778	**146-7780**	**$100.43**

J-Q Cratex® Mandrels

Fit Cratex small wheels, cylinders points and bullets. Use light working pressure.

	Style	Shank	For Hole	Item#	EACH Prices 1-11	12+
J.	#2	3/32"	1/16"	**840-3183**	**$4.62**	**$3.85**
K.	#3	⅛"	1/16"	**840-3186**	**5.79**	**4.82**
L.	#5	⅛"	⅛"	**840-3187**	**6.70**	**5.58**
M.	#1	3/32"	3/32"	**840-3182**	**3.24**	**2.70**
N.	#4	⅛"	3/32"	**840-3185**	**4.38**	**3.65**
O.	#6	⅛"	⅛"	**840-3085**	**5.04**	**4.20**
P.	1341	¼"	¼"	**840-3180**	**7.54**	**6.28**
Q.	1342	¼"	¼"	**840-3184**	**11.78**	**9.82**

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GRX Innovative AlO abrasive material for fast grinding and superb surface finishing

GRX consists of aluminum oxide dispersed in a unique elastic bond. Cuts a bit slower than silicon carbide yet imparts a very smooth surface finish—each grit yields a much higher finish than expected. Grinds platinum, gold, silver, steel and aluminum without clogging. Prevents metal surfaces from becoming scorched during processing. Very long-lasting. Made in Japan.

A-C GRX Wheels

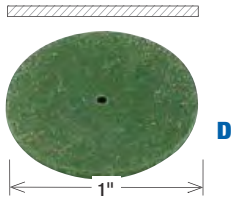
For grinding sprues or burs and removing surface roughness. Use on a polishing motor with arbor. Not for use on tapered spindles.

Dia. x Thick x AH	Grit	Max. RPM	Item#	EACH Prices 1-9	10+
A. 2" x 1/4" x 1/4"	80	9,600	**277-0180**	**$4.25**	**$3.61**
	120	9,600	**277-0185**	**4.25**	**3.61**
B. 3" x 1/8" x 1/4"	46	6,300	**277-0190**	**6.00**	**5.10**
	80	6,300	**277-0195**	**6.00**	**5.10**
C. 4" x 1/2" x 1/2"	80	4,800	**277-0100**	**21.50**	**18.28**
	150	4,800	**277-0105**	**21.50**	**18.28**

D. GRX Disc

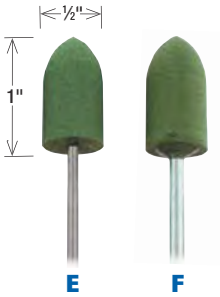
See pp. 460-461 for mandrels.

Dia. x Thick x AH	Grit	Max. RPM	Item#	EACH Prices 1-9	10+
1" x 1/16" x 1/16"	150	12,000	**277-0125**	**$1.95**	**$1.66**



E, F GRX Mounted Bullets

	Dia. x L	Shank	Grit	Max. RPM	Item#	EACH Prices 1-9	10+
E.	1/2" x 1"	3/32"	150	8,000	**277-0116**	**$3.95**	**$3.36**
F.	1/2" x 1"	1/8"	150	15,000	**277-0124**	**3.95**	**3.36**

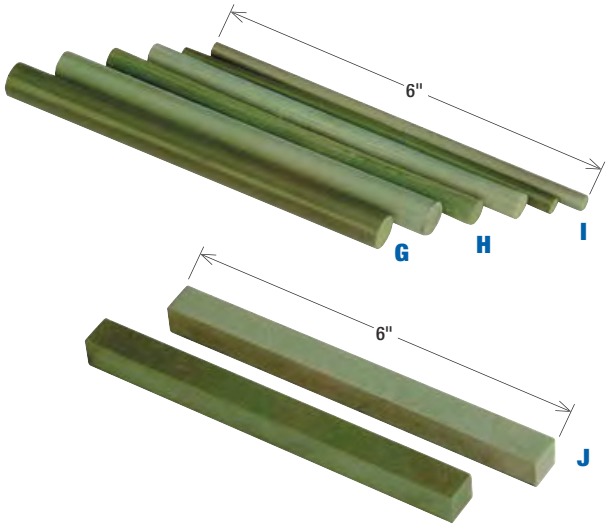


G-I GRX Rods

	Dimensions	Grit	Item#	EACH Prices 1-9	10+
G.	6"L x 1/4" dia.	80	**277-0130**	**$2.80**	**$2.38**
		120	**277-0135**	**2.80**	**2.38**
H.	6"L x 3/8" dia.	80	**277-0140**	**4.75**	**4.04**
		120	**277-0145**	**4.75**	**4.04**
I.	6"L x 1/2" dia.	80	**277-0150**	**5.50**	**4.68**
		120	**277-0155**	**5.50**	**4.68**

J. GRX Sticks

Dimensions	Grit	Item#	EACH Prices 1-9	10+
6"L x 1/2" square	80	**277-0160**	**$5.65**	**$4.80**
	120	**277-0165**	**5.65**	**4.80**



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A-D Dedeco® Silicone Ring Buffs – Silicon Carbide

These silicone ring buffs are soft and flexible for use on precious metal alloys. Fits on a tapered spindle. Center hole is reinforced with a plastic tube.

Coarse: For removing deep scratches
Medium: For smoothing and removing light scratches
Fine: For high-luster polishing
Extra-Fine: For super high-luster polishing and final finish

Available in convenient sets of each grit in all three sizes.

A B C D

	Color	Size	Grit	For Ring Size	Item#	Each
A.	White	3" x 5/8"–3/8"	120 (C)	Small	145-0160	$26.50
	White	3" x 3/4"–5/8"	120 (C)	Medium	145-0161	30.50
	White	4" x 15/16"–5/8"	120 (C)	Large	145-0162	34.25
B.	Black	3" x 5/8"–3/8"	180 (M)	Small	145-0163	26.45
	Black	3" x 3/4"–5/8"	180 (M)	Medium	145-0164	30.45
	Black	4" x 15/16"–5/8"	180 (M)	Large	145-0165	34.25
C.	Blue	3" x 5/8"–3/8"	220 (F)	Small	145-0166	26.45
	Blue	3" x 3/4"–5/8"	220 (F)	Medium	145-0167	30.45
	Blue	4" x 15/16"–5/8"	220 (F)	Large	145-0168	34.25
D.	Pink	3" x 5/8"–3/8"	400 (XF)	Small	145-0169	26.45
	Pink	3" x 3/4"–5/8"	400 (XF)	Medium	145-0170	30.45
	Pink	4" x 15/16"–5/8"	400 (XF)	Large	145-0171	34.25
	Small Set of all 4 colors/grits	3" x 5/8"–3/8"			145-0172	85.00
	Medium Set of 4 colors/grits	3" x 3/4"–5/8"			145-0173	100.00
	Large Set of 4 colors/grits	4" x 15/16"–5/8"			145-0174	115.00

E-J MAX Inside Ring Polishers – Perfect for polishing insides of rings!

Created due to popular demand, these polishers excel at polishing finger holes of rings. Made of MX material, which features foam cell construction for good flexibility, cool operation and long life. Choose from straight and tapered styles in five grits; RA240 grit is a specially formulated 240 grit that removes metal much more quickly than standard 240 grit. Mount directly to the Mini Max Combo 854-0120 (see p. 387) or screw into unique steel adapters (sold separately) and mount on the right hand side of your 5/8" or 1/2" shaft polishing motor. Measure 3 1/8" long. Max. operating speed: 3,600rpm.

E F G

H I J

	Description	Dia.	Ring Sizes	Grit	Item#	Each
	Straight Polisher	14mm	4–6	RA240	845-3020	$5.25
E.				240	845-3021	5.25
				600	845-3022	5.25
				1500	845-3023	5.25
				3000	845-3024	5.25
		17mm	7–10	RA240	845-3025	5.25
F.				240	845-3026	5.25
				600	845-3027	5.25
				1500	845-3028	5.25
				3000	845-3029	5.25
		20mm	11+	RA240	845-3030	5.25
G.				240	845-3031	5.25
				600	845-3032	5.25
				1500	845-3033	5.25
				3000	845-3034	5.25
	Tapered Polisher	19–14mm	4–9	RA240	845-3035	5.25
H.				240	845-3036	5.25
				600	845-3037	5.25
				1500	845-3038	5.25
				3000	845-3039	5.25
	22–16mm	6–13		RA240	845-3040	5.25
I.				240	845-3041	5.25
				600	845-3042	5.25
				1500	845-3043	5.25
				3000	845-3044	5.25
J.	Steel Adapter for 5/8" shaft				845-3045	7.30
	Steel Adapter for 1/2" shaft				845-3046	7.30

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A. Dedeco® Jeweler's Lathe Wheel

This rubberized wheel is coarse enough to make quick work of grinding jobs yet flexible enough to follow contours and leave a smooth finish. Contains 220 grit silicon carbide abrasive. Max. operating speed: 3,800rpm.

Shape	Grit	Dia. x Thick x AH	Item#	Each
SE Wheel	220	4" x 1/2" x 1/2"	**145-0085**	**$26.95**

A

B. AirFlex Poly Wheel – Silicon Carbide

Made of 240 grit silicon carbide abrasive in a polyurethane bond, Airflex has tiny pockets of air uniformly interspersed throughout, so you can work quickly without overheating the workpiece. Follows contours and leaves a smooth, uniform finish. This prepolishing wheel removes medium-grit file marks and leaves a matte finish. Works well on all precious alloys, including platinum, stainless steel and titanium. Max. operating speed: 3,000rpm.

Grit	Dia. x Thick x AH	Item#	Each
Medium (240 grit)	4" x 19/32" x 1/4"	**145-1181**	**$21.45**

B

C-F Dedeco® Silicone Split Laps, 6"

Designed to replace felt laps and rouge, these split laps provide a superior finish on gold and other metals. Each wheel is impregnated with silicone-carbide abrasive. Available in 4 grits. Max operating speed: 3,500rpm. 1/2" Arbor Hole.

Coarse: For removing deep scratches
Medium: For smoothing and removing light scratches
Fine: For high-luster polishing
Extra-Fine: For super high-luster polishing and final finish

	Color	Size	Grit	Item#	Each
C.	White	6" x 1/2"	120 (C)	**145-0180**	**$51.95**
D.	Black	6" x 1/2"	180(M)	**145-0181**	**51.95**
E.	Blue	6" x 1/2"	220 (F)	**145-0182**	**51.95**
F.	Pink	6" x 1/2"	400 (XF)	**145-0183**	**51.95**

C
D
E
F

Polishing Safety Measures

- Many polishing compounds contain respirable silica or other hazardous ingredients. Be sure to use a dust collector to pull all polishing dust away from your breathing zone, and wear a properly fitted NIOSH respirator rated for the specific dust or chemicals with which you are working.
- Any grinding operation will remove small amounts of metal from the workpiece. To protect your eyes from flying debris, always wear safety goggles or similar eye protection.
- Tie back loose hair and clothing to prevent entanglement in the polishing motor or spindle.
- Firmly twist the buff onto the tapered spindle before turning on the motor, and keep the buff centered and straight to ensure true running. With the spindle correctly installed, turning force of the motor will keep the buff safely mounted during grinding and polishing.
- Always use the lower quarter of the buff to control the action and to prevent the workpiece from being pulled from your grip. Never entwine your fingers with the workpiece; instead hold it in a manner that will prevent your fingers from being harmed should it be pulled from your grip.

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GMX/G-FLEX Cotton Fiber & Abrasive Mounted Points

GMX: Soft Latex Bond

GMX cotton fiber products utilize a unique flexible bond with laminates of non-woven, aluminum oxide abrasive impregnated fabric, with laminations that run parallel to the shank to prevent the ends from chipping. The construction continually exposes new abrasive grain for cooler running, and the flexible bond allows for reduced vibration and chattering. Unlike bonded or coated abrasives, these do not load up when working on softer metals or alloys, such as aluminum. Cylinders and other shapes can be dressed to conform to unique contours. Excellent for breaking edges, deburring, and blending on aluminum, stainless steel, and exotic alloys. GMX is also ideal for polishing mold runners and mold & die components. Available on ¼" shank, 3mm shank and 6mm shank via special order. Made in USA.

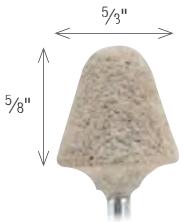
G-Flex: Firm Resin Bond

G-Flex cotton fiber products are similar to the GMX, but use a firm resin bond. It is also non-loading and can grind and finish in one operation. A special formulation keeps it from being too aggressive, and works well on aluminum, stainless steel, and exotic alloys. Another favorite for cleaning and polishing mold runners, as well as deburring and edge breaking on all metals. Also work great for deflashing of die castings, as well as deburring and finishing of turbine blade roots. See Grinding Wheel Institute publications for operating speeds of mounted products. 3mm shanks are in stock on some cylinders, others are available by special order.

Use 80 grit for deburring and sprue removal, 120 grit to remove parting lines and small burs, 180 and 320 grit for removing light scratches. Made in USA.

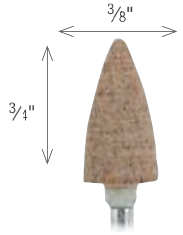
See Grinding Wheel Institute publications for operating speeds of mounted products.

A. B41 Cone – 5/8"L x 5/8" dia.



Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1/8"	**205-1812**	**135-1812**	**$9.15**	**$7.78**	**$6.86**	**$6.13**
120	1/8"	**205-1814**	**135-1814**	**9.15**	**7.78**	**6.86**	**6.13**
180	1/8"	**205-1816**	**135-1816**	**9.15**	**7.78**	**6.86**	**6.13**
320	1/8"	**205-1818**	**135-1818**	**9.95**	**8.46**	**7.46**	**6.67**

B. B52 Bullet – 3/4"L x 3/8" dia.

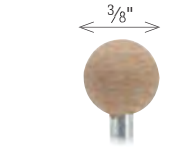


Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1/8"	**205-1722**	**135-1722**	**$7.25**	**$6.16**	**$5.44**	**$4.86**
120	1/8"	**205-1724**	**135-1724**	**7.25**	**6.16**	**5.44**	**4.86**
180	1/8"	**205-1726**	**135-1726**	**7.25**	**6.16**	**5.44**	**4.86**
320	1/8"	**205-1728**	**135-1728**	**7.95**	**6.76**	**5.96**	**5.33**

C. B121 Ball – 1/2" dia.

Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1/8"	**205-1832**	**135-1832**	**$5.95**	**$5.06**	**$4.46**	**$3.99**
120	1/8"	**205-1834**	**135-1834**	**5.95**	**5.06**	**4.46**	**3.99**
180	1/8"	**205-1836**	**135-1836**	**5.95**	**5.06**	**4.46**	**3.99**
320	1/8"	**205-1838**	**135-1838**	**6.75**	**5.74**	**5.06**	**4.52**

D. B122 Ball – 3/8" dia.



Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1/8"	**205-1732**	**135-1732**	**$5.95**	**$5.06**	**$4.46**	**$3.99**
120	1/8"	**205-1734**	**135-1734**	**5.95**	**5.06**	**4.46**	**3.99**
180	1/8"	**205-1736**	**135-1736**	**5.95**	**5.06**	**4.46**	**3.99**
320	1/8"	**205-1738**	**135-1738**	**6.75**	**5.74**	**5.06**	**4.52**

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A. W154 Cylinder – ½"L x 3⁄16" dia.

Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1⁄8"	205-1542	135-1542	$4.95	$4.21	$3.71	$3.32
120	1⁄8"	205-1544	135-1544	4.95	4.21	3.71	3.32
120	3mm	–	136-1544	4.95	4.21	3.71	3.32
180	1⁄8"	205-1546	135-1546	4.95	4.21	3.71	3.32
320	1⁄8"	205-1548	135-1548	5.50	4.68	4.13	3.69

A

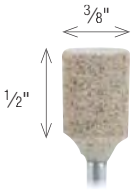
B. W163 Cylinder – ½"L x ¼" dia.

Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1⁄8"	205-1632	135-1632	$4.95	$4.21	$3.71	$3.32
80	3mm	204-1632	136-1632	4.95	4.21	3.71	3.32
120	1⁄8"	205-1634	135-1634	4.95	4.21	3.71	3.32
120	3mm	204-1634	136-1634	4.95	4.21	3.71	3.32
180	1⁄8"	205-1636	135-1636	4.95	4.21	3.71	3.32
180	3mm	204-1636	136-1636	4.95	4.21	3.71	3.32
320	1⁄8"	205-1638	135-1638	5.80	4.93	4.35	3.89
320	3mm	204-1638	136-1638	5.80	4.93	4.35	3.89

B

C. W176 Cylinder – ½"L x ⅜" dia.

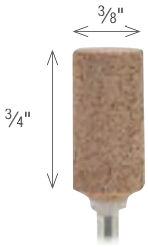
Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1⁄8"	205-1762	135-1762	$5.25	$4.46	$3.94	$3.52
120	1⁄8"	205-1764	135-1764	5.25	4.46	3.94	3.52
120	3mm	–	136-1764	5.10	4.34	3.83	3.42
180	1⁄8"	205-1766	135-1766	5.25	4.46	3.94	3.52
320	1⁄8"	205-1768	135-1768	6.15	5.23	4.61	4.12



C

D. W177 Cylinder – ¾"L x ⅜" dia.

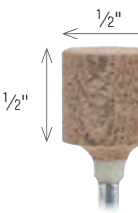
Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1⁄8"	205-1772	135-1772	$6.15	$5.23	$4.61	$4.12
120	1⁄8"	205-1774	135-1774	6.15	5.23	4.61	4.12
180	1⁄8"	205-1776	135-1776	6.15	5.23	4.61	4.12
320	1⁄8"	205-1778	135-1778	6.95	5.91	5.21	4.66



D

E. W185 Cylinder – ½"L x ½" dia.

Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1⁄8"	205-1852	135-1852	$5.25	$4.46	$3.94	$3.52
120	1⁄8"	205-1854	135-1854	5.25	4.46	3.94	3.52
180	1⁄8"	205-1856	135-1856	5.25	4.46	3.94	3.52
320	1⁄8"	205-1858	135-1858	5.60	4.76	4.20	3.75



E

F. W186 Cylinder – ¾"L x ½" dia.

Grit	Shank	SOFT GMX Item#	HARD G-FLEX Item#	EACH Prices 1-11	12-71	72-143	144+
80	1⁄8"	205-1862	–	$6.15	$5.23	$4.61	$4.12
120	1⁄8"	205-1864	–	6.15	5.23	4.61	4.12
180	1⁄8"	205-1866	–	6.15	5.23	4.61	4.12
320	1⁄8"	205-1868	–	7.10	6.04	5.33	4.76

F

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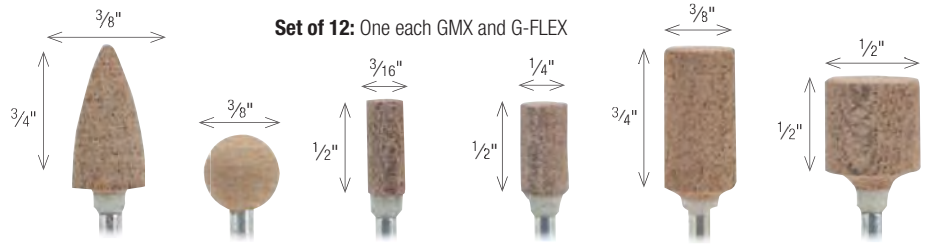
A B C

A-C GMX & G-Flex Application-Specific Sets – 1/8" Shank

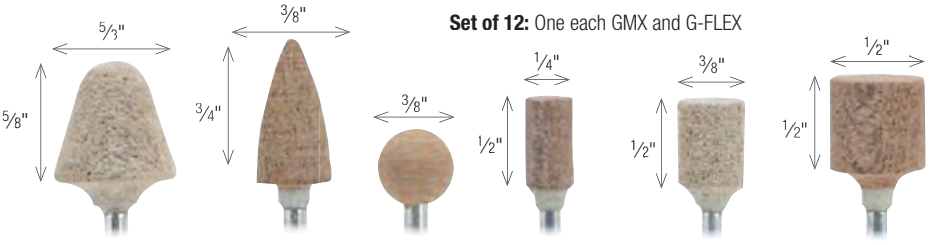
All 3 Gesswein cotton fiber sets offer an assortment of 12 points: 6 GMX and 6 G-Flex points in various shapes and grits targeted to working in specific applications: General purpose deburring and edge finishing, aluminum and non-ferrous finishing and deburring, stainless and exotic alloy finishing and deburring. All are mounted on 1/8" shanks. Each set includes 12 pieces: 6 shapes in both GMX (gray, soft latex bond) and G-Flex (brown, firmer resin bond).

	Description	Item#	Set of 12
A.	General Purpose	**135-1510**	**$59.00**
B.	Aluminum/Non-Ferrous	**135-1520**	**59.00**
C.	Stainless & Exotic Metals	**135-1530**	**59.00**

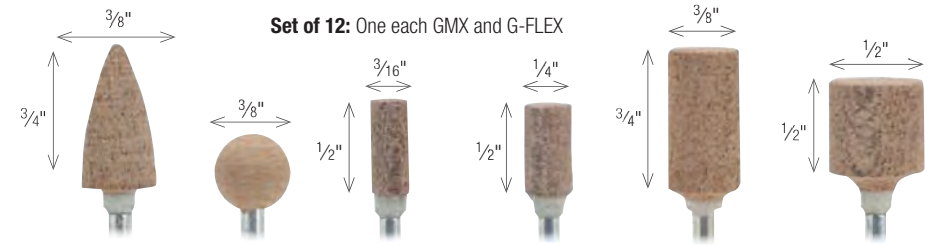
General Purpose	Shapes	Grit
	B52 Bullet	80
	B122 Ball	80
	W154 Cyl.	320
	W163 Cyl.	80
	W177 Cyl.	180
	W185 Cyl.	120

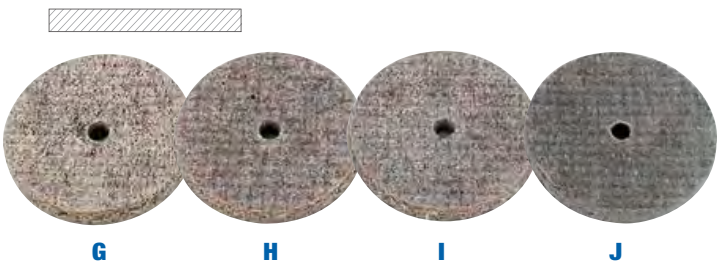


Aluminum/Non-Ferrous	Shapes	Grit
	B41 Cone	320
	B52 Bullet	120
	B122 Ball	80
	W163 Cyl.	120
	W176 Cyl.	180
	W185 Cyl.	80



Stainless Steel & Exotic Metals	Shapes	Grit
	B52 Bullet	80
	B122 Ball	80
	W154 Cyl.	120
	W163 Cyl.	80
	W177 Cyl.	120
	W185 Cyl.	80





D-J GMX Discs

A long-lasting aluminum oxide abrasive in a unique composite of laminated cotton fiber in a rubber bond. The cotton base also creates a cushioned feel and helps reduce chatter and loading. GMX cuts and smooths in one operation, leaving a smooth, even finish. Discs can be dressed to conform to shape of workpiece. Use 80 grit for deburring, 120 grit to remove parting lines and small burs, 180 and 320 grit for removing light scratches. Made in USA.

	Dia. x Thick x AH	Grit	Max. RPM	Item#	EACH Prices 1-11	12+
D.	1" x 1/16" x 1/8"	120	36,290	**205-5204**	**$4.75**	**$4.04**
E.		180	36,290	**205-5206**	**4.85**	**4.12**
F.		320	36,290	**205-5208**	**5.35**	**4.55**
G.	1" x 1/8" x 1/8"	80	36,290	**205-5252**	**4.85**	**4.12**
H.		120	36,290	**205-5254**	**4.85**	**4.12**
I.		180	36,290	**205-5256**	**4.85**	**4.12**
J.		320	36,290	**205-5258**	**5.35**	**4.55**

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GMX Long-lasting aluminum oxide abrasive

A unique composite of laminated cotton fiber in a rubber bond, GMX cuts and smooths in one operation, leaving a smooth, even finish. Can be dressed to conform to shape of workpiece. Use 80 grit for deburring and sprue removal, 120 grit to remove parting lines and small burs, 180 and 320 grit for removing light scratches. See p. 400 for arbors. Additional GMX products are also available on pages 96-98. Made in USA.

A-E GMX Sticks and Rods

Used for polishing and touching up molds, dies and metal parts. Less aggressive than finishing stones, GMX sticks produce a surprisingly smooth surface.

Dimensions	Grit	Item#	EACH Prices 1-11	12+
A. 4"L x 1/4" square	80	206-9250	$3.95	$3.36
	120	206-9260	3.95	3.36
	180	206-9270	3.95	3.36
	320	206-9280	5.60	4.76
B. 4"L x 1/4" round	80	206-9320	7.25	6.16
	120	206-9325	7.35	6.25
	180	206-9330	7.35	6.25
	320	206-9335	8.35	7.10
C. 4"L x 1/2" round	80	206-9340	8.15	6.93
	120	206-9345	8.15	6.93
	180	206-9350	8.15	6.93
	320	206-9355	9.40	7.99
D. 6"L x 1/4" round	80	206-9360	10.15	8.63
	120	206-9365	10.15	8.63
	180	206-9370	10.15	8.63
	320	206-9375	11.85	10.07
E. 6"L x 1/2" round	80	206-9380	10.75	9.14
	120	206-9385	10.75	9.14
	180	206-9390	10.75	9.14
	320	206-9395	12.35	10.50

A

B C D E

F, G GMX Wheels

Dia. x Thick x AH	Grit	Max. RPM	Item#	EACH Prices 1-24	25+
4" x 1/4" x 1/4"	80	9,075	206-1050	$14.75	$13.28
	120	9,075	206-1060	14.75	13.28
F.	180	9,075	206-1070	14.75	13.28
	320	9,075	206-1080	15.85	14.27

Dia. x Thick x AH	Grit	Max. RPM	Item#	EACH Prices 1-9	10+
6" x 1/8" x 1/2"	120	6,050	206-1360	$17.50	$15.75
G. 6" x 1/4" x 1/2"	120	6,050	206-1660	27.50	24.75
6" x 1/4" x 1/2"	180	6,050	206-1670	27.50	24.75
6" x 1/2" x 1/2"	80	6,050	206-1750	51.85	46.67

G F

H. GMX Split Laps

Split and beveled for see-through lapping. The embedded abrasive allows fast cutting while the rubber bond assures a very smooth finish. Max. operating speed: 6,050rpm. Made to use with the Gesswein Split Lapping Machine (see p. 406).

Dia. x Thick x AH	Grit	Item#	EACH Prices 1-9	10+
6" x 1/4" x 1/2"	80	206-3350	$30.60	$27.54
	120	206-3360	30.60	27.54
	180	206-3370	30.60	27.54
H. 6" x 1/2" x 1/2"	120	206-3460	59.60	53.64

H

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Polishing Compounds & Rouges

Gesswein offers the finest products for all aspects of polishing. From removing deep scratches to cutting, to final finishing to a very high luster finish, we have what you need to work on brass, stainless steel, gold (yellow and white), silver, platinum, chrome, nickel steel, aluminum; almost any metal you use we can help you polish.

We are proud to offer our traditional polishing compounds—a careful blend of abrasives and binders in bars and tubes. Our Dialux premium polishing compounds are very popular in Europe due to their ability to adhere well to the buff, reducing the amount used. The water-soluble compounds contain a special emulsifier to make clean up easy with just soap and water. We also offer a vegetable-based polishing compound line—our Veggie Compounds clean up easily and because they are completely free of animal products, are kosher.

A-0 Polishing Compounds

Listed in approximate order from the most to least aggressive. All bar weights are approximate and may vary slightly from bar to bar.

	Type	Description and Application	Approx. Weight	Item#	EACH Prices 1-9	10+
A.	Gray Star*	Aggressive, dry compound for removing deep scratches, yet leaves a uniform finish. Excellent for brass, gold, silver and stainless steel.	1 lb. 2.2 lbs.	**215-0915*** **215-0910***	**$4.15** **8.40**	**$3.74** **7.56**
B.	Chrome	Produces mirror finish on hard metals such as chrome, nickel steel and stainless steel. Medium cutting compound for soft metals.	1¾ lbs.	**215-1550**	**11.50**	**9.20**
C.	Bobbing*	For fast cutting on soft metals such as gold, silver, aluminum and brass. Sticks well to laps and brushes. Often used in place of Tripoli.	1 lb.	**215-1450***	**4.95**	**3.96**
D.	Manhattan Bobbing*	Specially formulated for use on sterling silver, but also works on gold and brass to remove scratches & pits and to prepare for buffing with tripoli and rouge.	1¼ lbs.	**215-0425***	**3.65**	**3.10**
E.	NYC Tripoli*	Fast cutting on soft metals such as brass, aluminum, gold and silver. Sticks well to laps and brushes. Used in place of Tripoli.	1 lb.	**215-0475***	**2.60**	**2.21**
F.	Tripoli*	For cutting down and removing scratches from soft metals such as gold, silver, aluminum and brass. Leaves surface scratch-free for final polish.	1 lb.	**215-1750***	**2.30**	**1.84**
G.	Gray 800*	Light cutting compound for removing surface roughness and scratches from platinum.	⅞ lb.	**215-0045***	**19.50**	**16.58**
H.	ZAM®	For use on softer metals, epoxies and hard plastics. Cuts and polishes at the same time and leaves a high luster. Fast cleanup. Won't scratch softer stones like turquoise.	¼ lb. 1 lb.	**215-1603** **215-1602**	**3.80** **8.85**	**3.23** **7.97**
I.	White 1500*	Medium cutting compound for platinum. Removes light scratches and prepares surface for final polishing.	⅞ lb.	**215-0049***	**33.99**	**28.89**
J.	White 4000*	Fine cutting compound for platinum. Removes light haze and scratches.	½ lb.	**215-0042***	**32.50**	**27.63**
K.	White 6000*	Fine cut-and-color compound for platinum. Removes faint scratches and leaves a soft, bright finish.	½ lb.	**215-0043***	**35.70**	**30.35**
L.	4X White Diamond*	A medium cut-and-color compound for soft metals such as gold, silver, and brass.	¾ lb.	**215-1710***	**2.10**	**1.68**
M.	White Rouge	High luster on platinum, white gold, chrome and stainless steel.	¼ lb.	**215-0250**	**2.45**	**2.08**
N.	White 8000*	Polishing compound for ultra-white high shine on platinum.	½ lb.	**215-0046***	**37.99**	**32.29**
O.	Orange Luster	Formulated with low oil content to increase polishing power. Works fast and delivers the whitest, brightest shine on platinum	5 oz.	**215-0037**	**18.50**	**15.73**

***CAUTION:** This compound contains silica. See warning on facing page.

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A-J Polishing Compounds, continued

	Type	Description and Application	Approx. Weight	Item#	EACH Prices 1-9	10+
A.	Red Rouge	Imparts extremely high luster on soft metals: gold, silver, brass and all nonferrous metals. The industry standard for producing the final finish.	¼ lb.	215-1050	$2.20	$1.76
			½ lb.	215-1100	4.80	3.84
			1 lb.	215-1150	6.60	5.28
B.	Blue Rouge	Clean working compound designed to produce high luster on gold, silver, brass, chrome and all nonferrous metals.	1 lb.	215-1702	3.50	2.80
C.	Green Rouge	Produces an extremely high luster on chrome, stainless steel, silver, platinum, white gold and rhodium.	¼ lb.	215-0800	5.40	4.32
D.	Yellow Glow	For ultra-bright final finish on yellow gold and most metals except silver. Has a very light cutting action. Not greasy. Comes in peel-away tube.	14 oz.	215-0054	6.25	5.00
E.	Lustre Bar	Produces very high luster finish on all metals as well as plastics. Will remove light scratches, yet leaves a bright mirror finish. Comes in peel-away tube.	1 lb.	215-1600	7.50	6.00
F.	Platinum Blue	This specially formulated compound imparts the highest possible finish on platinum and other precious metals.	5 oz.	215-1784	13.50	11.48
G.	Two-Step Platinum	Reduce the polishing steps associated with platinum. Adhere very well to buffs. Yellow bar (Step 1) removes scratches.	13.4 oz.	215-0038	19.50	16.58
		Green bar (Step 2) imparts mirror finish.	13.4 oz.	215-0039	19.50	16.58
H.	Platinum Pink	Imparts a highly reflective surface on platinum as well as white gold, titanium and other hard metals.	5 oz.	215-1786	19.25	16.36
I.	C-Clear Watch Crystal	Restores plastic by removing scuffs and scratches. Used by jewelers to make old plastic watch crystals look new again.	¼ lb.	215-0041	6.20	-
J.	Platinum Sample Set*	Four different compounds for platinum: Gray 800, White 1500, White 8000 and Orange Luster.	¾ lb.	215-0036*	25.00	-

A

B

C

D

E

F

G

H

I

J

Featured Compounds

Gray Star

Aggressive, dry compound for removing deep scratches, yet leaves a uniform finish. Excellent for brass, gold, silver and stainless steel. 1 lb. bar. **215-0915*** **$4.15**

Two-Step

Yellow cuts and quickly removes scratches on stainless, titanium, aluminum, copper, zinc, brass, gold, silver and platinum. **215-0038** **$19.50** The green produces a mirror finish on precious and other metals. **215-0039** **$19.50**

Lustre Bar

Produces very high luster finish on all metals as well as plastics. Will remove light scratches, yet leaves a bright mirror finish. Comes in peel-away tube. **215-1600** **$7.50**

Platinum Blue

This specially formulated compound imparts the highest possible finish on platinum and other precious metals. **215-1784** **$13.50**

Green Rouge

Produces an extremely high luster on chrome, stainless steel, silver, platinum, white gold and rhodium. **215-0800** **$5.40**

White 8000

For an ultra-white high shine on platinum and titanium. **215-0046*** **$37.99**

***CAUTION:** This compound contains silica. Normal use my generate fine dust, which can irritate eyes, skin and nasal passages. Use ventilation and safety protection, and wash after use. Long term exposure to silica-containing compounds may cause silicosis, lung damage or lung cancer which may be prevented by use of appropriately rated respirator and air exhaust.

Many polishing compounds contain hazardous ingredients. Be sure to use a dust collector to pull polishing dust away from your breathing zone and a properly fitted respirator rated for the specific dust or chemicals with which you are working. Normal use may generate fine dust which can irritate eyes, skin and nasal passages. Use ventilation and safety protection, and wash after use. Long term exposure to silica-containing compounds may cause silicosis, lung damage or lung cancer which may be prevented by use of appropriately rated respirator and air exhaust.

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A

B

C

D

E

F

A-F Veggie Compounds – Vegetable oil-based!

These vegetable oil-based compounds offer several advantages over standard compounds, including faster loading time, easier cleanup and less dust. Completely free of animal by-products and also kosher. Available in ¼ lb. tubes and 1 lb. bars.

	Type	Description and Application	Approx. Weight	Item#	EACH Prices 1-9	10+
A.	Gray Star	Aggressive compound for removing scratches. Excellent on gold, silver, brass and stainless steel.	¼ lb. tube 1 lb.	**215-1806** **215-1807**	**$2.95** **3.65**	**$2.51** **3.10**
B.	Premium Brown Tripoli	Fast cut and color compound. Removes scratches and leaves a matte surface ready for final polishing. Good on aluminum, brass, copper, nickel, silver gold and platinum.	¼ lb. tube 1 lb.	**215-1808** **215-1809**	**2.40** **3.10**	**2.04** **2.64**
C.	White Ice	General-purpose medium cut and color compound for use on soft metals such as gold, silver and brass. Leaves surfaces scratch-free for final buffing.	¼ lb. tube 1 lb.	**215-1800** **215-1801**	**3.15** **3.40**	**2.68** **2.89**
D.	Premium Red Rouge	Imparts high color on soft metals. Ideal for final finishing of precious metals such as gold and silver, as well as brass and bronze.	¼ lb. tube 1 lb.	**215-1804** **215-1805**	**4.10** **8.70**	**3.49** **7.40**
E.	Premium Green Rouge	Contains more Chromium than any other green rouge on the market for the deepest, brightest shine possible on silver and white gold.	¼ lb. tube 1 lb.	**215-1802** **215-1803**	**9.25** **20.35**	**7.86** **17.30**
F.	Sample Set	Includes: Gray Star, Premium Brown Tripoli, White Ice, Premium Red Rouge and Premium Green Rouge.	Five ¼ lb. tubes	**215-1810**	**21.16**	-

Please ask for quotes on larger quantities.

G

G. Pumice Powder

A natural abrasive used for cleaning surfaces and for removing imperfections and firescale. Mix with water or oil and apply with a muslin buff to create a fine matte finish. Sold by the pound.

Description	Item#	LB. Prices 1-9	10+
Pumice Powder	**845-4000**	**$4.25**	**$3.61**

H

H. Face Shield – Complete protection with excellent optics.

This lightweight plastic shield is a must for full face and neck protection against flying chips while grinding, drilling or polishing. Can be worn over dust masks, respirators and glasses with no obstruction of view. Features pivoting visor for easy raising and lowering, molded visor edge for reinforcement, cushioned vinyl comfort band and pin-and-hole adjustable headbands. Visor measures 8"L x 12"W x .040" thick. Does not eliminate need for safety glasses.

	Description	Item#	Each
H.	Face Shield	**270-0210**	**$21.00**
	Replacement Visor	270-0212	4.65
	Replacement Vinyl Sweatband	270-0214	1.48

***CAUTION:** This compound contains silica. Normal use my generate fine dust, which can irritate eyes, skin and nasal passages. Use ventilation and safety protection, and wash after use. Long term exposure to silica-containing compounds may cause silicosis, lung damage or lung cancer which may be prevented by use of appropriately rated respirator and air exhaust.

Many polishing compounds contain hazardous ingredients. Be sure to use a dust collector to pull polishing dust away from your breathing zone and a properly fitted respirator rated for the specific dust or chemicals with which you are working. Normal use may generate fine dust which can irritate eyes, skin and nasal passages. Use ventilation and safety protection, and wash after use. Long term exposure to silica-containing compounds may cause silicosis, lung damage or lung cancer which may be prevented by use of appropriately rated respirator and air exhaust.

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A-H Dialux Polishing Compounds

Premium polishing compounds imported from Europe. Made from select abrasive grades, uniformly blended and manufactured under the strictest quality controls. Adhere exceptionally well to buffs, brushes and felts, so very little is needed, which helps reduce cleanup and save time. Individually packaged in cardboard boxes for cleaner handling. Each bar measures 3⅝"L x 1⅛"W x 1"H and weighs approx. 4 oz.

	Type	Description and Application	Approx. Weight	Item#	EACH Prices 1-9	10+
A.	Dialux Bleu (Blue)	All-purpose compound for all types of metal	4 oz.	**215-1771**	**$4.95**	**$4.46**
B.	Dialux Jaune (Yellow)*	For bright high polish of soft metals such as brass, bronze and copper.	4 oz.	**215-1772***	**4.95**	**4.46**
C.	Dialux Blanc (White)	For bright polishing of silver.	4 oz.	**215-1773**	**4.95**	**4.46**
D.	Dialux Gris (Gray)	Recommended for fine polishing of stainless steel.	4 oz.	**215-1774**	**4.95**	**4.46**
E.	Dialux Rouge (Red)	The brightest shine for yellow gold. Also produces a brilliant shine on silver.	4 oz.	**215-1775**	**5.25**	**4.73**
F.	Dialux Vert (Green)	Recommended for bright polishing of hard alloys such as platinum, white gold, chrome, chrome cobalt and stainless steel.	4 oz.	**215-1776**	**5.25**	**4.73**
G.	Dialux Noir (Black)	For final polishing of silver.	4 oz.	**215-1777**	**5.25**	**4.73**
H.	Vornex (Orange)	Pre-polish cutting compound for all ferrous metals.	4 oz.	**215-1778**	**4.95**	**4.46**

A B C D E F G H

I-Q Water-Soluble Polishing Compounds – Cooler buffing and faster clean up

Contains a special emulsifier so compounds rinse off easily with soap and water.

	Type	Description and Application	Approx. Weight	Item#	EACH Prices 1-9	10+
I.	Gray/ Green*	For fast metal removal; more aggressive than Gray Star. For cutting white metals, gold, silver and brass.	2 lbs.	**215-1752***	**$4.35**	**$3.48**
J.	Gray Star	Aggressive dry compound for removing deep scratches, yet leaves a uniform finish. For brass, gold, silver and stainless steel.	1 lb.	**215-1740**	**4.65**	**3.72**
K.	Tripoli*	Standard tripoli in a water soluble form. For cutting down and removing scratches from soft metals such as gold, silver, aluminum and brass. Leaves surface scratch-free and ready for final polish.	1 lb.	**215-1750***	**2.30**	**1.84**
L.	Yellow	Produces a very high, final finish on white metal, gold, silver and brass.	2 lbs.	**215-1751**	**8.15**	**6.52**
M.	Green Rouge	Produces an extremely high luster on chrome, stainless steel, silver, platinum, white gold and rhodium.	1 lb.	**215-1730**	**4.50**	**3.60**
N.	Premium Red Rouge	For the highest, brightest finish on yellow gold. Produces a premium grade finish on all precious metals, especially when teamed with our Chamois Buffs (see p. 140).	¼ lb. 1 lb.	**215-1715** **215-1720**	**3.10** **8.50**	**2.48** **6.80**
O.	Black Rouge	Produces a deep, dark luster on gold, pewter and other precious metals and is especially effective on silver.	1 lb.	**215-1701**	**5.15**	**4.12**
P.	Turquoise Rouge	For imparting the final finish on precious metals and soft, semiprecious stones. Ideal for buffing jewelry such as silver set with turquoise.	1 lb. 2 lb.	**215-0152** **215-0151**	**4.25** **7.65**	**3.40** **6.12**
Q.	Sample Set*	Four 1 lb. bars of our most popular compounds: Gray Star, Tripoli, Green Rouge and Red Rouge.	4 lbs.	**215-1760***	**18.50**	**-**

I J K L M N O P Q

***CAUTION:** This compound contains silica. See warning on facing page.

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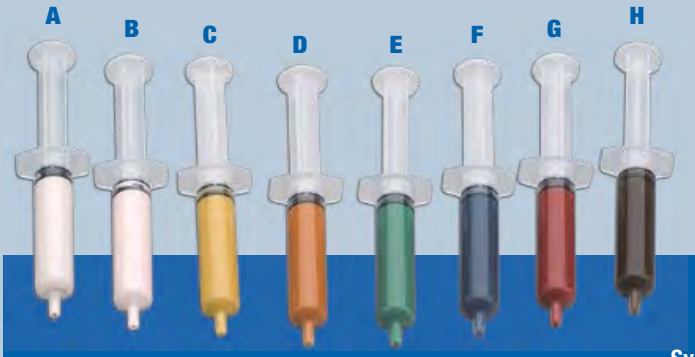
Gesswein® Diamond Compounds

Feature evenly distributed 100% virgin synthetic diamond, more consistent in shape than natural diamond, for fast, consistent cutting action. We stock in medium and heavy concentrations, however all grades can be special-ordered in L (light, 50%), M (medium, 75%) and H (heavy, 100%) concentrations. Standard Oil-Soluble Compounds hold together very well, even under high-speed conditions. Specifically formulated for the mold and die industry. Can be thinned with Oil-Soluble Lubricant/Thinner (see p. 105). Water-Soluble compounds have the same concentrations as Oil-Soluble Compounds. Allow fast and easy cleanup. Can be thinned with Water-Soluble Lubricant/Thinner (see p. 105). Consider Budget Oil-Soluble Compounds when affordability is a factor (lower prices are due to variations in particle size and friability). Packaged in 1-gram, 6-gram and 18-gram disposable syringes.



Grade	Application	Approx. Micron	Mesh	Color	Syringe Size (grams)	Standard Oil-Soluble Item#	Water-Soluble Item#	Each	Budget Oil-Soluble Item#	Each
A. ½-9M	Supreme finish	0–1	60000	White	1	**216-0045**	–	**$3.40**	–	–
					6	**216-2045**	–	**13.80**	–	–
B. 1-8M	Super finish	0–2	14000	Ivory	1	**216-0050**	**216-9052**	**2.60**	–	–
					6	**216-2050**	**216-9064**	**11.35**	**216-9100**	**$9.10**
					18	**216-7055**	**216-9076**	**29.45**	**216-9112**	**23.60**
C. 3-7M	Very high finish	2–4	8000	Yellow	1	**216-0100**	**216-9054**	**4.30**	–	–
					6	**216-2100**	**216-9066**	**22.45**	**216-9102**	**17.95**
					18	**216-7105**	**216-9078**	**62.20**	**216-9114**	**48.95**
D. 6-48M	Mirror finish	4–8	3000	Orange	1	**216-0150**	**216-9056**	**5.60**	–	–
					6	**216-2150**	**216-9068**	**30.45**	**216-9104**	**23.95**
					18	**216-7155**	**216-9080**	**86.25**	**216-9115**	**67.95**
E. 9-6M	High finish	8–12	1800	Green	1	**216-0200**	**216-9058**	**5.60**	–	–
					6	**216-2200**	**216-9070**	**30.45**	**216-9106**	**23.95**
					18	**216-7205**	**216-9082**	**86.25**	**216-9116**	**67.95**
F. 15-5M	Fine finish	12–22	1200	Blue	1	**216-0250**	**216-9060**	**5.60**	–	–
					6	**216-2250**	**216-9072**	**30.45**	**216-9108**	**23.95**
					18	**216-7255**	**216-9084**	**84.95**	**216-9118**	**67.95**
G. 30-4H	Fast lapping	22–36	600	Red	1	**216-0300**	**216-9062**	**8.25**	–	–
					6	**216-2300**	**216-9074**	**47.20**	**216-9110**	**38.15**
					18	**216-7305**	**216-9086**	**136.00**	**216-9120**	**108.00**
H. 45-3H	Medium cutting	36–54	325	Brown	1	**216-0350**	–	**8.35**	–	–
					6	**216-2350**	–	**48.75**	–	–
					18	**216-7355**	–	**137.95**	–	–
60-2H	Fast cutting	–	230	Purple	1	**216-0400**	–	**8.35**	–	–
					6	**216-2400**	–	**48.75**	–	–
					18	**216-7405**	–	**137.95**	–	–
90-1H	Coarse cutting	–	170	Gray	1	**216-0450**	–	**8.35**	–	–
					6	**216-2450**	–	**48.75**	–	–
					18	**216-7455**	–	**135.95**	–	–
120H	Fast grinding	–	120	Black	1	**216-0500**	–	**8.35**	–	–
					6	**216-2500**	–	**48.75**	–	–
					18	**216-7505**	–	**135.95**	–	–

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A. SUPRA® Diamond Compounds

Oil-soluble compounds with very heavy concentration of 100% virgin synthetic diamond for sharp, even cutting action. Graded to closer tolerances than those dictated by nationally recognized standards. Provide much faster stock removal than traditional diamond compounds. Sold in 5-gram Precision Applicators, which afford finer control than ordinary syringes.

Grade	End Use	Approx. Micron	Mesh	Color	Item#	Each
1-S	Super finish	0–2	14000	Ivory	**217-0010**	**$13.50**
3-S	Very high finish	2–4	8000	Yellow	**217-0015**	**22.30**
6-S	Mirror finish	4–8	3000	Orange	**217-0020**	**25.30**
9-S	High finish	6–12	1800	Green	**217-0025**	**26.50**
15-S	Fine finish	10–20	1200	Blue	**217-0030**	**26.50**
30-S	Fast lapping	20–40	600	Red	**217-0035**	**35.40**

A

B-D Gesswein® Diamond Compound Sets

Convenient sets providing the compounds needed for lapping, polishing and gemstone shaping. All sets include ¾ ounce bottle of appropriate Lubricant/Thinner (see below for details).

Oil-Soluble Set
Includes 1-gram syringes of:
- 60-2H Purple for Fast Cutting
- 30-4H Red for Fast Lapping
- 9-6M Green for High Finish
- 3-7M Yellow for Very High Finish

B. **216-9500** **$24.95**

Water-Soluble Set
Includes 1-gram syringes of:
- 30-4H Red for Fast Lapping
- 15-5M Blue for Fine Finishing
- 9-6M Green for High Finish
- 3-7M Yellow for Very High Finish

C. **216-9200** **$25.35**

Gemstone Set
Includes 1-gram syringes of:
- 45-3H Brown for Cutting, Fast Shaping
- 30-4H Red for Fast Lapping
- 15-5M Blue for Fine Finishing
- ½-9M White for Ultra High Finish

D. **216-9510** **$23.65**

B

C

E-I Lubricant/Thinner and Spray Bottle

To use all brands of compounds most efficiently, we recommend adding a lubricant to allow the compound to cut at its peak performance and to prevent the felt bob from gumming up or chattering. When added to diamond compound on the workpiece, lubricant thins out the mixture, creating a slurry and extending the compound. Available in two formulations: Oil-soluble and water-soluble, and in spray or squeeze bottle for moistening felts prior to diamond compound application.

Fill empty 4 oz. spray bottle with cleaning solution, lubricants and more for easy dispensing. Spray gets into hard-to-reach areas.

	Description	Size	Item#	Each
E.	Oil-Soluble Lubricant/Thinner	¾ oz. Squeeze Bottle	**825-1295**	**$2.50**
F.		4 oz. Spray Bottle	**825-1303**	**4.95**
G.		8 oz. Bottle	**825-1300**	**6.85**
H.		32 oz. Bottle	**825-1305**	**19.60**
	Water-Soluble Lubricant/Thinner	¾ oz. Squeeze Bottle	**825-1290**	**2.50**
		4 oz. Spray Bottle	**825-1310**	**4.95**
		8 oz. Bottle	**825-1315**	**6.85**
		32 oz. Bottle	**825-1320**	**19.60**

	Description	Item#	EACH Prices 1-2	3+
I.	Empty 4 oz. Spray Bottle	**811-2460**	**$2.15**	**$1.94**

E F G H I

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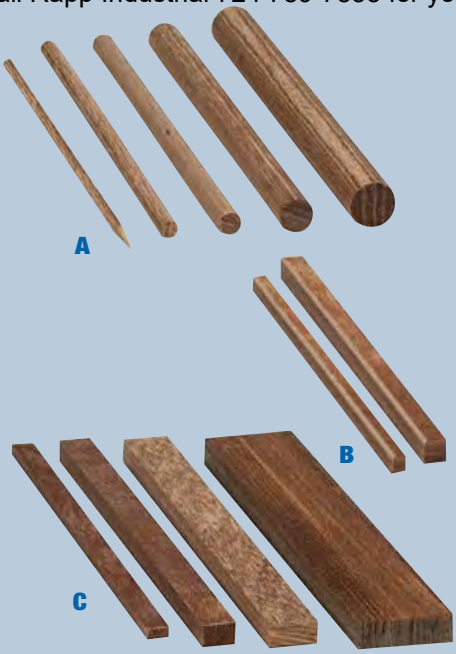
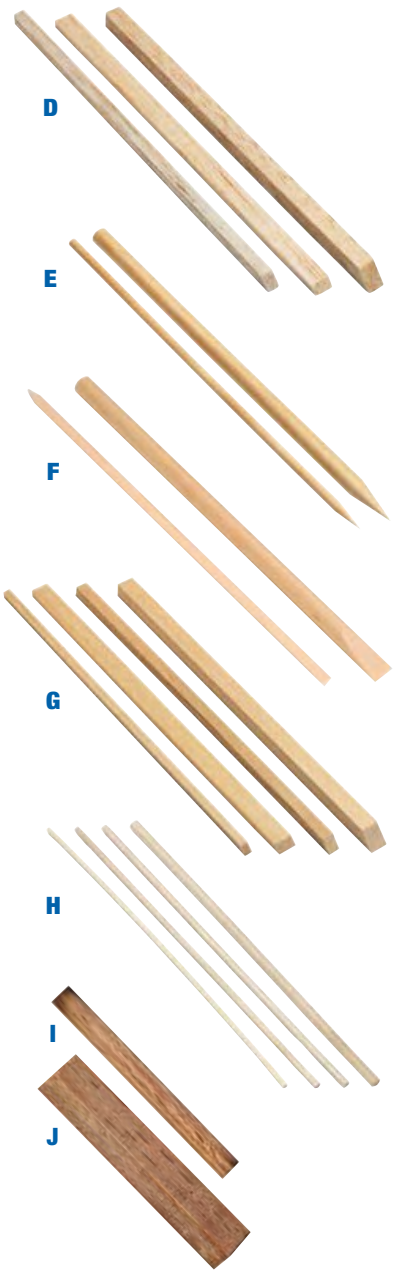


Rockwood Sticks

Very hard, laminated sticks that retain their shape well. Use by hand, with reciprocating or rotary tools for initial finishing with diamond and other compounds. Can be dressed with a knife or file. Measure 6" long with blunt ends (except #825-0005, which has one pointed end, and #825-0045, which has one beveled end). Dark brown in color.

Shape	Size	Item#	EACH Prices 1-11	12+
A. Round Pointed	1/8"	825-0005	$3.33	$2.77
Round	3/16"	825-0010*	4.85	4.04
	1/4"	825-0020*	5.95	4.96
	3/8"	825-0030	9.79	8.16
	1/2"	825-0040*	14.29	11.91
B. Square Beveled	1/8" x 1/8"	825-0045	2.98	2.48
Square	1/4" 1/4"	825-0060	4.85	4.04
C. Rectangular	1/8" x 1/4"	825-0050*	3.95	3.29
	1/4" x 3/8"	825-0070*	5.89	4.91
	1/4" x 1/2"	825-0080*	6.55	5.46
	5/16" x 1"	825-0110	11.45	9.54
*Set 1R, 18 pieces (three of each asterisked number)		825-0300	59.50	-
Set 2R, 27 pieces (three of each size except 1/8" square and round)		825-0400	99.00	-



D. Very Soft Sticks – Select balsa wood with one shaped end

Use by hand, with reciprocating or rotary tools for final finishing with diamond and other compounds. Can be dressed with a knife or file. Measure 6" long.

Shape	Size	Item#	PKG. of 5 1-9	10+
Rectangular, beveled	3/16" x 3/16"	825-0532	$8.55	$6.84
	1/8" x 1/4"	825-0534	9.95	7.96
	1/4" x 1/4"	825-0536	8.55	6.84

E-G Soft Sticks – Select white birch or poplar with one shaped end

Use by hand, with reciprocating or rotary tools for intermediate to final finishing with diamond and other compounds. Measure 6" long.

Shape	Diameter	Item#	PKG. of 25 1-9	10+
E. Round, pointed	1/8"	825-0551	$11.85	$10.67
	1/4"	825-0557	11.85	10.67
F. Round, double-beveled	1/8"	825-0541	11.85	8.89
	1/4"	825-0547	11.85	10.67

Shape	Size	Item#	PKG. of 5 1-9	10+
G. Rectangular, beveled	1/8" x 1/8"	825-0501	$6.95	$5.56
	3/16" x 3/16"	825-0503	5.95	4.76
	1/8" x 1/4"	825-0505	5.95	4.76
	1/4" x 1/4"	825-0507	5.95	4.76

H. Pegwood Sticks

Flexible multipurpose sticks that maintain a fine point and resist breaking when pushed into a hole. Use by hand, with reciprocating or rotary tools for intermediate finishing with diamond and other compounds. Carefully chosen, round soft sticks can also be used when gluing or as a dop stick. Dress with a knife or file. Measure 6" long. Sold in bundles of 24.

Shape	Diameter	Item#	BUNDLE of 24 1-9	10+
Round	2mm	825-1201	$10.00	$8.50
	2.5mm	825-1202	10.25	8.71
	3mm	825-1203	10.50	8.93
	4mm	825-1204	10.75	9.14

I, J Wood Laps – For ULTRAMAX® units

For use with diamond compound. Can be shaped with a diamond file or stone. Excellent for polishing narrow slots.

Material	Size (mm)	Item#	Pkg. of 5
I. Extra-Hard Wood	3 x 30 round	508-3349	$24.95
J. Extra-Hard Wood	3.2 x 6 x 30 flat	508-3351	20.00

Supplied with ULTRAMAX DF/SF.

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

Simichrome Polish®

One of the finest all-metal paste polishes in the world! Simply rub on with a soft cloth and rub off to obtain a brilliant luster. Will not harm uncoated metal surfaces. Unlike chemical polishes, it will not remove a layer of the metal surface being cleaned. Recommended for use after diamond compound. Removes tarnish, dirt and oils, and generally renews polished metal surfaces. Leaves a protective film, which retards oxidation but does not prevent tarnishing. Works well on virtually any ferrous or non-ferrous metal surface such as brass, copper, silver, gold, pewter, magnesium, bronze, chromium, stainless steel, platinum, aluminum and countless other similar uncoated metals. Do not use on painted or lacquered surfaces. Excellent for removing shallow scratches from most any plastic and is also used to charge dry polishing medias (such as Dri-Shine III, Walnut Shells, or crushed cob) for tumbling. Made in Germany.

C B A

A-C Simichrome Polish®

Description	Item#	Each
A. 50g Tube	218-2050	$12.95
50g Tube, Box of 24	218-2100	240.00
B. 250g Tin	218-2150	38.75
C. 1,000g Tin	218-2200	95.00

D. Clover® Lapping Compound

Grease-based silicon carbide compound. Great for refining surface finishes and cutting without heat buildup. Most economical for tight areas where compound loss is excessive. Best for use on 50HRC and softer steels. Packaged in 1 lb. cans.

Grit	Item#	Each	Grit	Item#	Each
180	218-3180	$38.00	400	218-3400	$42.00
220	218-3220	38.00	600	218-3600	62.00
320	218-3320	42.00	1200	218-3620	85.00

D

E. Tetrabor® Compound

Boron carbide compound. Great for refining surface finishes and cutting without heat buildup. Best for use on carbide and hardened steel. Packaged in 100 gram tubes.

Grit	Item#	Each	Grit	Item#	Each
60	218-1005	$35.00	400	218-1090	$39.00
100	218-1010	35.00	600	218-1100	47.00
220	218-1050	35.00	800	218-1110	47.00
320	218-1080	39.00	1200	218-1130	56.00

E

F. Brilliant Luster Cream – For a high polish without the harsh odor

Produces a lustrous mirror sheen on mold and die surfaces. Quickly removes stains and oxidation, as well as the haze created by diamond polishing. Can be used on all steels, aluminum, chrome, brass and bronze. Goes on and comes off easily with a felt bob, soft cloth or tissue paper. Emits no harsh odors, unlike other brands. Nonhazardous and noncorrosive.

Description	Item#	Each
F. 50g Jar	218-2220	$7.25
50g Jars, box of 24	218-2225	145.00
250g Jar	218-2230	22.95
1,000g Jar	218-2235	61.95

F

G. Wood Bobs – 1/8" Shank

Natural wood bobs for intermediate finishing with rotary tools. Can be shaped for contours. Use dark-colored hard bobs with 15 micron or coarser diamond compounds, light-colored soft bobs with 15 micron or finer. Sold in packages of 10 or in a 12-piece set.

Description	Dia. x L	Hard Item#	Soft Item#	Pkg. of 10
Ball	3/8"	825-0618	825-0638	$33.00
Cylinder	1/4" x 5/8"	825-0605	825-0625	31.95
	3/8" x 3/4"	825-0607	825-0627	36.65
Flame	3/8" x 5/8"	825-0610	825-0630	33.00
	3/8" x 1 1/4"	825-0612	825-0632	36.65
	1/2" x 3/4"	825-0614	825-0634	36.65

Description	Item#	Each
G. 12-Piece Set (one of each)	825-0640	$37.55

G

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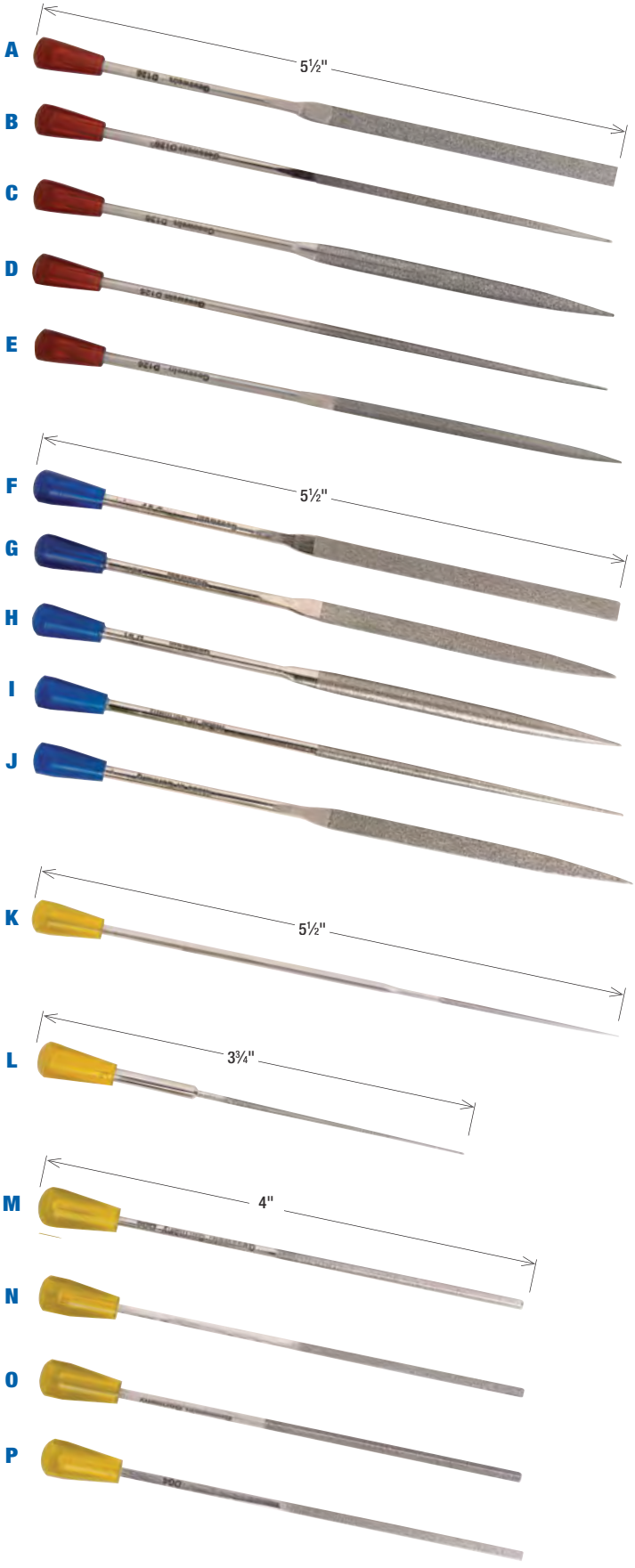
Spectra Diamond Files

High-quality diamond files at economical prices. Feature a combination of natural and synthetic diamonds firmly plated onto durable steel blanks. Cushioned color-coded ends. Made in Germany.

Spectra Grit Chart		
Medium	D126	120/140
Fine	D91	170/200
Very Fine	D64	230/270



A-E Spectra Medium Diamond Needle Files

Diamond needle files with 3mm round handles. Measure 5½" (14cm) long. Plated ends measure 2¾" long. Medium grit (D126, or U.S. standard 120/140).

Style	Shape	Item#	EACH Prices 1-4	5-9	10+
A. Equalling		241-0010	$30.25	$28.74	$27.23
B. Flat-Pointed		241-0020	30.25	28.74	27.23
C. Half-Round		241-0030	30.25	28.74	27.23
D. Round		241-0040	30.25	28.74	27.23
E. Knife		241-0050	30.25	28.74	27.23
Set of all five		241-0250	141.00	–	

F-J Spectra Fine Diamond Needle Files

Diamond needle files with 3mm round handles. Measure 5½" (14cm) long. Plated ends measure 2¾" long. Fine grit (D91, or U.S. standard 170/200).

Style	Shape	Item#	EACH Prices 1-4	5-9	10+
F. Equalling		241-0012	$30.25	$28.74	$27.23
G. Flat-Pointed		241-0022	30.25	28.74	27.23
H. Half-Round		241-0032	30.25	28.74	27.23
I. Round		241-0042	30.25	28.74	27.23
J. Knife		241-0052	30.25	28.74	27.23
Set of all five		241-0245	141.00	-	-

K. Spectra Very Fine Diamond Escapement File

Diamond escapement file with 3/32" square handle. Measures 5½" (14cm) long. Plated end measures 1¾" long with 1/16"–1/32" taper. Very fine grit (D64, or U.S. standard 230/270).

Style	Shape	Item#	EACH Prices 1-4	5-9	10+
Round (tapered)		241-0150	$33.00	$31.35	$29.70

L-P Spectra Very Fine Diamond Micro Files

Mini diamond files with 3/32" wide handles. Measure approx. 4" long except round, which measures approx. 3¾" long. Plated ends measure approx. 2" long with 1/16"–1/32" taper for round only. Very fine grit (D64, or U.S. standard 230/270).

Style	Shape	Item#	EACH Prices 1-4	5-9	10+
L. Round (tapered)		241-0500	$26.00	$24.70	$23.40
M. Half-Round		241-0505	26.00	24.70	23.40
N. Square		241-0510	26.00	24.70	23.40
O. Three-Square		241-0515	26.00	24.70	23.40
P. Flat Hand		241-0520	26.00	24.70	23.40
Set of all five		241-0525	123.00	-	-

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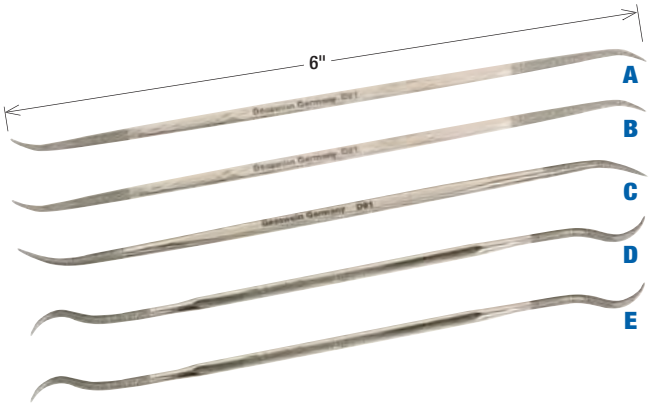
A-E Spectra Diamond Rifflers – Medium and Fine

Curved, double-ended diamond files with square handles. Measure 6" long. Plated ends measure 1" long. Medium grit (D126, or U.S. standard 120/140) and fine grit (D91, or U.S. standard 170/200).

Style	Shape	Medium Item#	Fine Item#	EACH Prices 1-4	5-9*	10+*
A. Flat		241-0195	241-0170	$42.00	$39.90	$37.80
B. Three-Square		241-0200	241-0175	42.00	39.90	37.80
C. Square		241-0205	241-0180	42.00	39.90	37.80
D. Round		241-0210	241-0185	42.00	39.90	37.80
E. Oval		241-0215	241-0190	42.00	39.90	37.80
Set of all five		241-0310	241-0305	195.00	–	–

**Quantity discount for orders of one item number only; not assorted.*



F-N Spectra Diamond Poli Files – Medium

Parallel diamond machine files for use in reciprocating handpieces (see pp. 420, 429-431, 448-449, 453-454). All have 3mm shanks. Plated ends measure 15mm long and files measure 2" in length, except where noted. Medium grit (D126, or U.S. standard 120/140). Made in Germany.

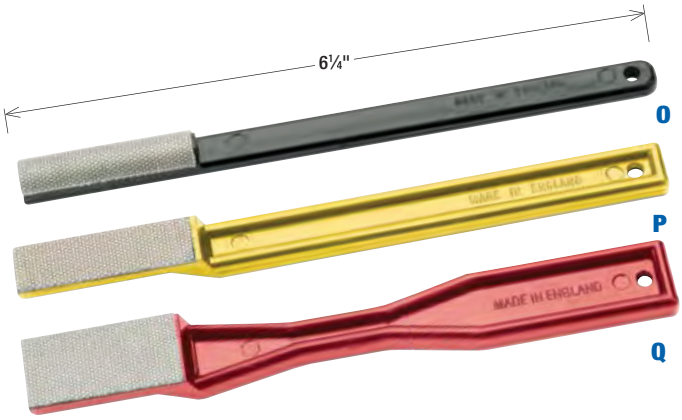
Style	Shape	Plated Size (mm)	Item#	EACH Prices 1-4	5-9	10+
F. Flat		2 x 1mm	241-0400	$25.00	$23.75	$22.50
G.		3 x 1mm	241-0405	25.00	23.75	22.50
H.		4 x 1mm	241-0410	25.00	23.75	22.50
I.		5 x 2mm	241-0415	25.00	23.75	22.50
J.		5 x 2mm*	241-0420	25.00	23.75	22.50
K. Flat		2 x 1mm	241-0425	25.00	23.75	22.50
L.		3 x 1mm	241-0430	25.00	23.75	22.50
M.		5 x 2mm*	241-0435	25.00	23.75	22.50
N. Round		3mm*	241-0440	25.00	23.75	22.50
Set of all nine			241-0445	160.00	152.00	144.00

**Plated length 25mm, overall length 2½"*

O-Q 3M® Diamond Hand Files

For filing hard-to-cut materials, finishing delicate surfaces, beveling edges, removing burs and sharpening tools. Can be used wet or dry. Color-coded for easy grit identification. Overall length approximately 6¼".

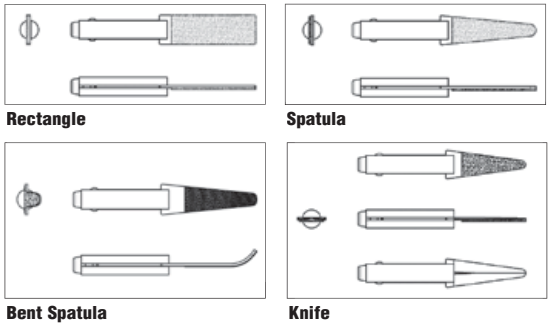
Cutting Face (L x W)	Color	Grit/Micron	Item#	EACH Prices 1-9	10+
O. 1½" x ¾"	Black	120/M125	240-3010	$9.20	$8.28
	Red	200/M74	240-3011	8.75	7.88
	Yellow	400/M40	240-3012	7.75	6.98
	White	800/M20	240-3013	7.75	6.98
P. 1¾" x ½"	Black	120/M125	240-3014	8.80	7.92
	Red	200/M74	240-3015	8.20	7.38
	Yellow	400/M40	240-3016	8.10	7.29
	White	800/M20	240-3017	8.10	7.29
Q. 1¾" x ½" half-round	Black	120/M125	240-3018	8.80	7.92
	Red	200/M74	240-3019	8.40	7.56



R. Mini-Filer Diamond Tips – 2mm Shank

Mini-filing tips coated on one side with synthetic diamonds, precisely bonded to obtain the best physical properties for added strength and wear. These tips can be used in our Mini-Filers (see pp. 420-421, 426) and other light-duty profiling handpieces. All measure .5mm thick x approx. 23mm long.

Shape/ Grit	Coated Length	D181	D151	D107	D64	30 µm	15 µm
Rectangle	9.5mm	241-0604	241-0603	–	241-0602	241-0601	–
Spatula	9.5mm	241-0608	241-0607	–	241-0606	241-0605	–
Bent Spatula	9mm	–	–	–	241-0609	-	–
Knife	8mm	241-0620	241-0621	241-0622	241-0623	241-0624	241-0625
Package of 3		$49.00	$49.00	$49.00	$49.00	$49.00	$49.00



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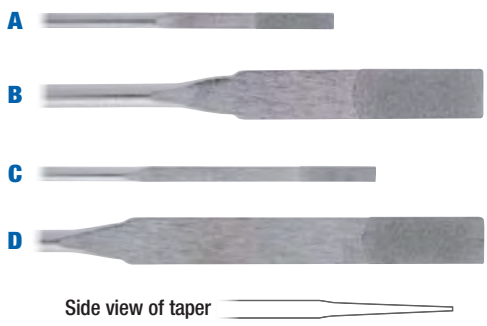
Gesswein® Diamond Files

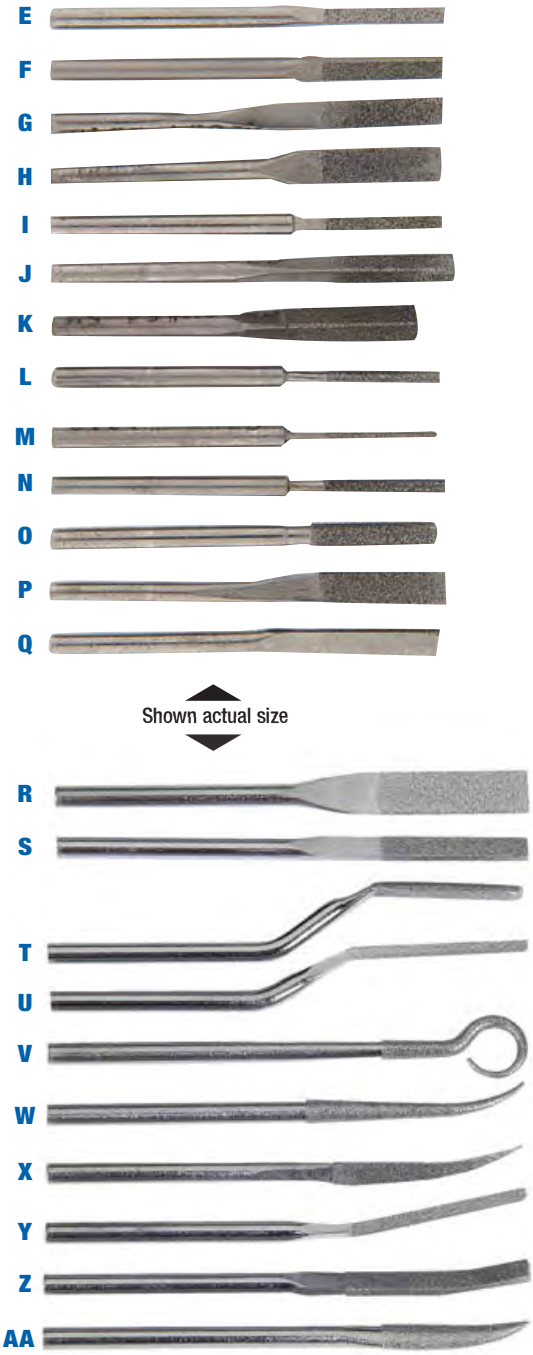
Premium diamond files for use on steels, carbides, ceramics, plastics and more. Features 100% synthetic diamonds—more consistent in shape than natural diamonds—plated onto high-strength steel blanks for consistent cutting and long life. See p. 312 for file handles.



A-D Gesswein® Tapered Diamond Poli Files – 200, 400 or 600 Grits

Tapered diamond machine files for use in reciprocating handpieces (see pp. 420, 429-431, 448-449 and 453-454). All have 3mm shanks. Plated ends measure 15mm (19/32") long with 1.4–0.3mm taper.

	Style	Shape	W x L	200 Grit	400 Grit	600 Grit	Each
A.	Flat		3 x 56mm	**241-0814**	**241-0815**	**241-0816**	**$12.50**
B.	Flat		6 x 56mm	**241-0817**	**241-0818**	**241-0819**	**13.75**
C.	Flat		3 x 72mm	**241-0820**	**241-0821**	**241-0822**	**12.50**
D.	Flat		6 x 72mm	**241-0823**	**241-0824**	**241-0825**	**13.75**
	12-Piece Set (one of each)					**241-0813**	**149.75**



E-Q Gesswein® Diamond Poli Files – 150 Grit

Diamond parallel machine files for use in reciprocating handpieces (see pp. 420, 429-431, 448-449 and 453-454). All have 3mm shanks. Measure approx. 2" long. Plated ends measure 5/8" long.

	Style	Shape	W x Thick	Grit	Item#	EACH Prices 1-4	5-9	10+
E.	Flat		2 x 1mm	150	**240-1120***	**$12.50**	**$11.88**	**$11.25**
F.			3 x 1mm	150	**240-1130**	**12.50**	**11.88**	**11.25**
G.			4 x 1mm	150	**240-1140**	**12.50**	**11.88**	**11.25**
H.			5 x 2mm	150	**240-1150**	**12.50**	**11.88**	**11.25**
I.	3-Square		2mm	150	**240-1520***	**12.50**	**11.88**	**11.25**
J.			3mm	150	**240-1535**	**12.50**	**11.88**	**11.25**
K.			4.5mm	150	**240-1545**	**12.50**	**11.88**	**11.25**
L.	Crossing		2 x 1mm	150	**240-1410***	**12.50**	**11.88**	**11.25**
M.	Round		1mm	150	**240-1310**	**12.50**	**11.88**	**11.25**
N.			2mm	150	**240-1320***	**12.50**	**11.88**	**11.25**
O.			3mm	150	**240-1330**	**12.50**	**11.88**	**11.25**
P.	Flat		4 x 1mm	150	**240-1230***	**12.50**	**11.88**	**11.25**
Q.	Knife		4 x 1mm	150	**240-1610***	**12.50**	**11.88**	**11.25**
	***6-Piece Set** (one of each asterisked item)				**240-1706**			**71.00**
	12-Piece Set (one of each except #240-1150)				**240-1712**			**142.00**

R-AA Gesswein® Diamond Riffler Poli Files – 150 Grit

Parallel diamond machine files for use in reciprocating handpieces (see pp. 420, 429-431, 448-449 and 453-454). All have 3mm shanks. Measure approx. 2.5" long. Plated ends measure 5/8" long. Diamond coating measures approximately 7/8".

	Style	Shape	W x Thick	Grit	Item#	Each
R.	Equalling		5.8 x 1.2mm	150	**240-1001**	**$12.50**
S.	Equalling		3.2 x 1.4mm	150	**240-1002**	**12.50**
T.	Half-Round Bent		5 x 2mm	150	**240-1003**	**12.50**
U.	Equalling Bent		3.2 x 1.4mm	150	**240-1004**	**12.50**
V.	Round Hook		3mm	150	**240-1005**	**12.50**
W.	Round Curved		3mm	150	**240-1006**	**12.50**
X.	Three-Square		2.5mm	150	**240-1007**	**12.50**
Y.	Equalling Angle		3.2 x 1.4mm	150	**240-1008**	**12.50**
Z.	Equalling Curved		3.2 x 1.4mm	150	**240-1009**	**12.50**
AA.	Crossing Oval		3.5 x 2mm	150	**240-1010**	**12.50**
	10-Piece Set (one of each)				**240-1000**	**112.50**

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A-F Gesswein® Diamond Needle Files – 5½" 150 Grit

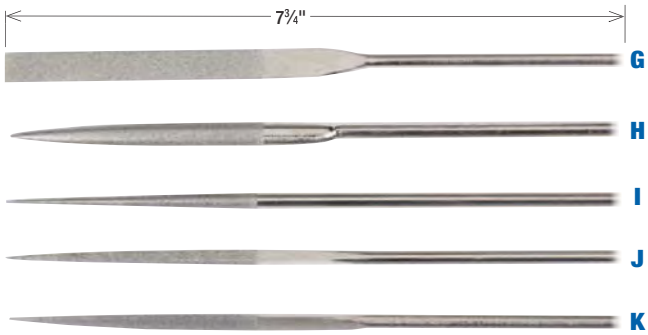
Diamond needle files with 3mm round handles. Plated ends measure 2¾" long (70mm). Can be used alone or with needle file handles (see p. 312).

	Style	Shape	Grit	Length	Item#	EACH Prices 1-4	5-9	10+
A.	Round		150	5½"	**240-2162**	**$22.00**	**$20.90**	**$19.80**
B.	Half-Round		150	5½"	**240-2152**	**22.00**	**20.90**	**19.80**
C.	Square		150	5½"	**240-2142**	**22.00**	**20.90**	**19.80**
D.	Three-Square		150	5½"	**240-2132**	**22.00**	**20.90**	**19.80**
E.	Equalling		150	5½"	**240-2112**	**22.00**	**20.90**	**19.80**
F.	Barrette		150	5½"	**240-2102**	**22.00**	**20.90**	**19.80**
	6-Piece Set (one of each)				**240-2200**	SET Price		**125.00**

G-K Gesswein® Diamond Needle Files – 7¾" 120 Grit

Diamond needle files with 3mm round handles. Plated ends measure 2¾" long (70mm). Can be used alone or with needle file handles (see p. 312).

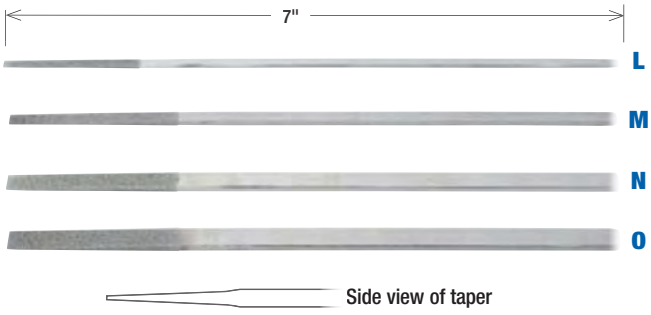
	Style	Shape	Grit	Length	Item#	EACH Prices 1-4	5-9	10+
G.	Equalling		120	7¾"	**240-2211**	**$30.00**	**$28.50**	**$27.00**
H.	Half-Round		120	7¾"	**240-2212**	**30.00**	**28.50**	**27.00**
I.	Round		120	7¾"	**240-2213**	**30.00**	**28.50**	**27.00**
J.	Square		120	7¾"	**240-2214**	**30.00**	**28.50**	**27.00**
K.	Three-Square		120	7¾"	**240-2215**	**30.00**	**28.50**	**27.00**
	5-Piece Set (one of each)				**240-2210**	SET Price		**135.00**



L-O Gesswein® Tapered Diamond Hand Files – 150, 200 or 400 Grits

Tapered diamond hand files with slim handles for sure grip. Measure 180mm (7") long. Plated ends measure 40mm long on 2mm wide files, 50mm long on all others.

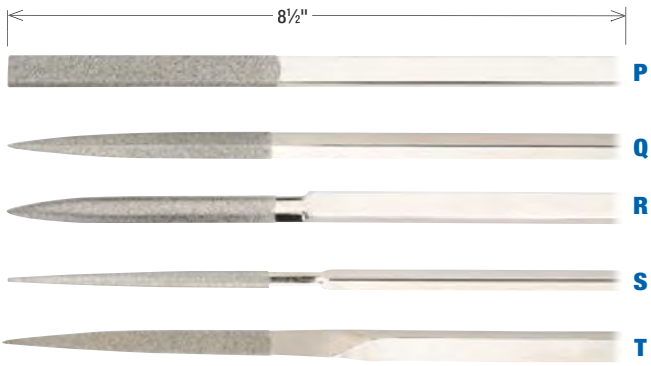
	Style	Shape	W x Thick	150 Grit	200 Grit	400 Grit
L.	Flat		2 x 1.5–0.4mm	**241-0801**	**241-0802**	**241-0803**
M.	Flat		4 x 2.0–0.5mm	**241-0804**	**241-0805**	**241-0806**
N.	Flat		6 x 2.0–0.5mm	**241-0807**	**241-0808**	**241-0809**
O.	Flat		8 x 2.5–0.5mm	**241-0810**	**241-0811**	**241-0812**
					EACH Price	**$22.00**
	12-Piece Set (one of each)			**241-0800**	SET Price	**250.00**



P-T Gesswein® Diamond Hand Files – 100, 200 or 400 Grits

Heavy-duty diamond hand files with square shanks for use by hand or with handles. Measure 215mm (8⁷⁄₁₆") long. Plated ends measure a generous 80mm (3⁵⁄₃₂") long.

	Style	Shape	W x Thick	100 Grit	200 Grit	400 Grit
P.	Equalling		11.0 x 3.5mm	**241-0746**	**241-0747**	**241-0748**
Q.	Square		6.3 x 6.3mm	**241-0735**	**241-0736**	**241-0737**
R.	Half-Round		10.5 x 4.4mm	**241-0749**	**241-0730**	**241-0731**
S.	Round		5.0mm	**241-0732**	**241-0733**	**241-0734**
T.	3-Square		7.7mm	**241-0738**	**241-0739**	**241-0740**
					EACH Price	**$39.95**
	5-Piece Sets (one of each style)			**241-0741**	**241-0742**	**241-0743**
					SET Price	**$169.95**



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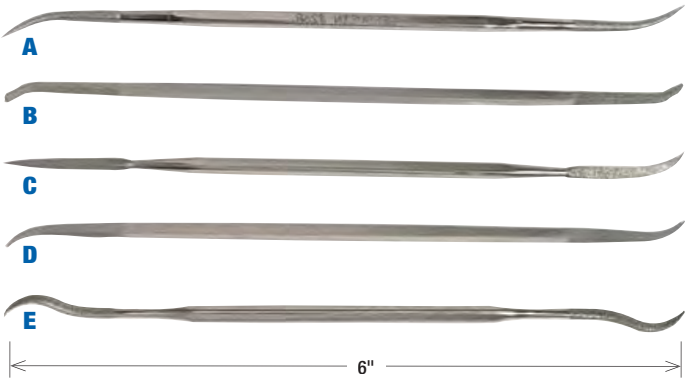

A-E Gesswein® Diamond Rifflers – Double Ended, 150 Grit

Curved, double-ended diamond files with square handles. Measure 6" long. Plated ends measure 1" long.

	Style	Shape	Grit	Item#	EACH Prices 1-4	5-9	10+
A.	16R		150	**240-3165**	**$25.00**	**$23.75**	**$22.50**
B.	18R		150	**240-3180**	**25.00**	**23.75**	**22.50**
C.	22R		150	**240-3222**	**25.00**	**23.75**	**22.50**
D.	24R		150	**240-3225**	**25.00**	**23.75**	**22.50**
E.	26R		150	**240-3230**	**25.00**	**23.75**	**22.50**
	5-Piece Set (one of each)			**240-3250**	**SET Price**		**115.00**

Shown actual size: 5½" long

F-O Gesswein® Diamond Rifflers – 5½" Handle, 150 Grit

Gesswein Diamond Rifflers use 100% man-made diamonds. These synthetic diamonds are more consistent in shape than natural diamonds. This guarantees sharp and even cutting action, durability and long life. All blanks are precision-made of high-strength steel. High-density wear-resistant plating enables total usage of the full concentration of diamond crystals.

Available in 10 different shapes: 6mm Flat, 3.5mm Flat, Square, Tapered Square, 3-Square, Half-Round, Oval, Knife Edge, Round, and Round Hook. A money saving set of all 10 shapes is available.

- Overall length: 5½" (140mm)
- Handle Diameter: 3.0mm
- Diamond Coated Length: ¾" (20mm)
- All are 150 grit
- Sold individually or in a set

	Style	Grit	Item#	EACH Prices 1-4	5-9	10+
F.	Flat, 6 x 1.3mm	150	**240-3301**	**$18.00**	**$17.10**	**$16.20**
G.	Tapered Square	150	**240-3302**	**18.00**	**17.10**	**16.20**
H.	Flat, 3.5 x 1.5mm	150	**240-3303**	**18.00**	**17.10**	**16.20**
I.	3-Square	150	**240-3304**	**18.00**	**17.10**	**16.20**
J.	Half Round	150	**240-3305**	**18.00**	**17.10**	**16.20**
K.	Square	150	**240-3306**	**18.00**	**17.10**	**16.20**
L.	Oval	150	**240-3307**	**18.00**	**17.10**	**16.20**
M.	Round Hook	150	**240-3308**	**18.00**	**17.10**	**16.20**
N.	Knife Edge	150	**240-3309**	**18.00**	**17.10**	**16.20**
O.	Round	150	**240-3310**	**18.00**	**17.10**	**16.20**
	10-Piece Set (one of each)		**240-3300**	**162.00**	**153.90**	**145.80**

Other Rifflers are in the File Section see pp. 313-316.

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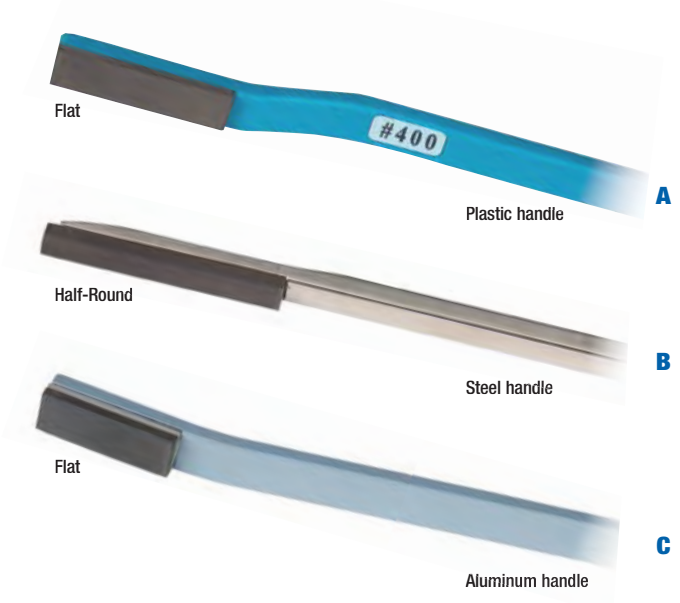
A-C Resinoid Diamond Lappers

For touching up and sharpening cutting tools, carbide and high-speed steels. The diamond stone will remove scratches and other surface imperfections. Leaves a good finish due to its resin bonding. Diamond is embedded throughout the stone ensuring consistent cutting action as the stone wears.

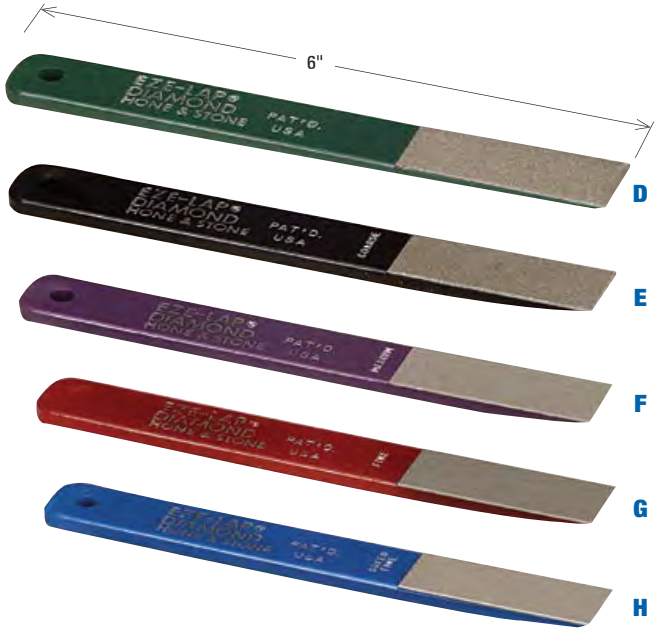
Style	Shape	Stone Size: Length x Width	Grit	Item#	Each
A. Flat stone		40 x 10mm	400	**240-3031**	**$35.95**
		40 x 10mm	800	**240-3033**	**35.95**
		40 x 10mm	1200	**240-3035**	**35.95**
B. Half-Round stone		40 x 5mm	400	**240-3041**	**40.95**
		40 x 5mm	800	**240-3043**	**40.95**
		40 x 5mm	1200	**240-3045**	**40.95**
C. Flat stone		30 x 10mm	400	**240-3051**	**38.40**
		30 x 10mm	800	**240-3053**	**38.40**
		30 x 10mm	1200	**240-3055**	**38.40**



D–H EZE-LAP® Diamond Hand Lappers

These lappers are ideally suited for honing edges of carbide cutting tools. They offer excellent abrasion resistance for superior finishing. Available in assorted grits to match your finishing requirements. Comfort-fit handgrips are designed for accurate control and color-coded for easy grit identification. Measure 6"L x ¾"W (diamond face measures 2"L x ¾"W).

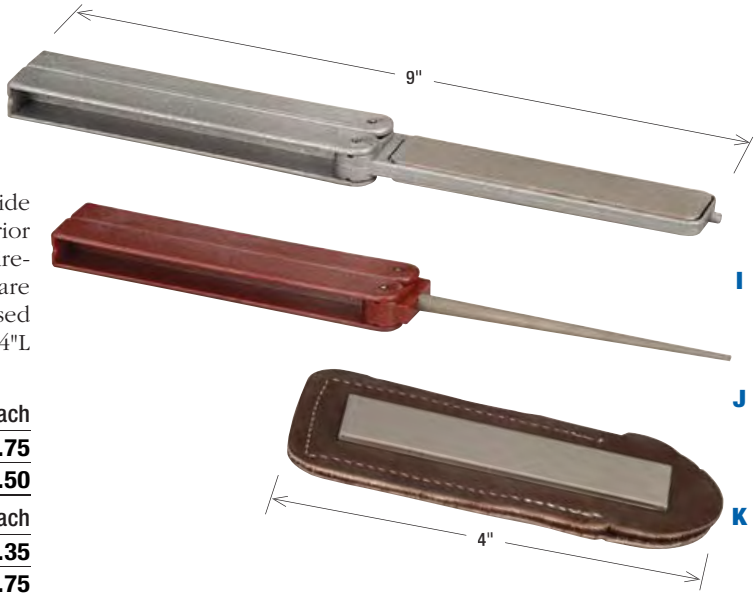
Hand Lappers	Color	Item#	Each
D. Extra-Coarse	Green	**349-6009**	**$11.50**
E. Coarse (200)	Black	**349-6010**	**8.95**
F. Medium (325)	Purple	**349-6012**	**7.45**
G. Fine (600)	Red	**349-6014**	**6.25**
H. Super-Fine (1500)	Blue	**349-6018**	**6.25**



I-K EZE-LAP® Diamond Hand Sharpeners

These sharpeners are ideally suited for honing edges of carbide cutting tools. They offer excellent abrasion resistance for superior finishing. Available in assorted grits to match your finishing requirements. Folding sharpeners with butterfly knife-style handles are grit color-coded and measure 9"L x 1"W open, 5"L x 1"W closed (diamond face area measures 4"L x ¾"W). Sharpeners measure 4"L x 1"W (each includes carrying pouch).

Folding Sharpeners	Color	Item#	Each
I. Fine/Medium	Silver	**349-6020**	**$33.75**
J. Fine (tapered cone)	Red	**349-6022**	**22.50**
Sharpeners		**Item#**	**Each**
K. Medium (325)		**349-6026**	**$16.35**
Fine (600)		**349-6024**	**13.75**



All prices subject to change without notice.

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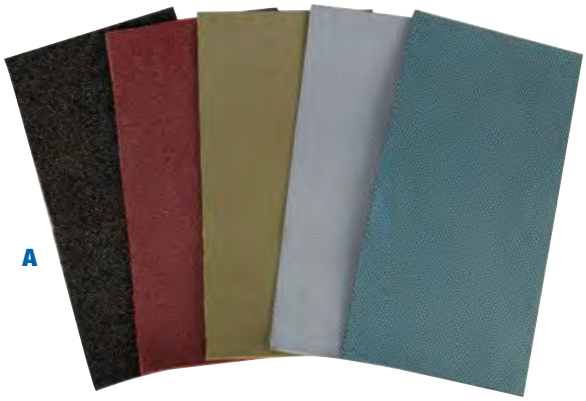
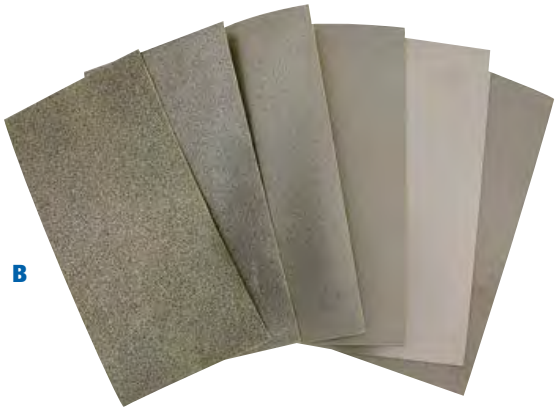


A

A. Diamond PSA Cloth

Features precisely graded diamond grit on a flexible cloth backed by pressure-sensitive adhesive. The diamond grit is positioned on raised "islands" covering the cloth, thus allowing greater flexibility and more aggressive cutting action. Can be easily cut with scissors, shaped, punched and bent to almost any configuration. Use wet or dry for applications on steel, carbide, ceramic, glass, etc. All diamond cloths are color coded for easy identification of grit. Measures 50 x 100mm (2" x 4").

Color	Grit	Size	Item#	Each
Brown	120	50 x 100mm	**107-4951**	**$51.00**
Red	200	50 x 100mm	**107-4952**	**39.00**
Yellow	400	50 x 100mm	**107-4953**	**35.00**
White	600	50 x 100mm	**107-4954**	**35.00**
Blue	1000	50 x 100mm	**107-4955**	**44.00**



B

B. Diamond PSA Foil

Consists of diamond abrasive particles electroplated onto very thin and flexible metal foil. Backed by pressure-sensitive adhesive. Can cut to any size and shape with scissors. Simply remove the paper backing and stick foil on to your own tools, creating a new "self-made" tool. Wide range of grit selection for fast aggressive cutting or fine polishing on steels and carbides. Measures 50 x 100mm (2" x 4").

Grit	Size	Item#	Each
120	50 x 100mm	**107-5790**	**$40.50**
200	50 x 100mm	**107-5792**	**30.95**
400	50 x 100mm	**107-5794**	**27.00**
600	50 x 100mm	**107-5795**	**23.50**
1200	50 x 100mm	**107-5797**	**23.50**

C

C. Diamond PSA Poly Film

These highly flexible films are made of precisely graded diamond particles bonded to high strength polyester backing and provide a uniform, consistent finish. The films are waterproof, have good heat resistance and have a PSA (Pressure Sensitive Adhesive) backing. Can be used on a variety of materials including hardened steels, tungsten carbide, ceramic, glass, precious stones and epoxy. Measures 25 x 150mm (1" x 6").

Micron	Size	Item#	Each
60	25 x 150mm	**107-5786**	**$19.50**
45	25 x 150mm	**107-5785**	**19.50**
30	25 x 150mm	**107-5784**	**19.50**
15	25 x 150mm	**107-5783**	**19.50**
9	25 x 150mm	**107-5782**	**19.50**
6	25 x 150mm	**107-5781**	**19.50**

D

D. Copper Matrix Diamond Sheets

Consist of diamond particles thoroughly mixed in a flexible copper alloy matrix for excellent dissipation of heat, allowing cutting with both sides and edges (sides are great for broad areas, edges for narrow slots). Can be cut, punched, bent, soldered, brazed and glued. Measure 3" x 2". Diamond concentration is 50.

Grit	Particle Size (Microns)	Thickness	Item#	Each
Coarse (100/120)	100/120	0.012"	**107-5895**	**$56.00**
Medium (500)	30/40	0.010"	**107-5890**	**51.00**
Fine (1200/1500)	8/12	0.008"	**107-5885**	**47.00**

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A-I Diamond-Impregnated Rubber Wheels and Points – 3/32" Shank

Diamond and rubber combined to give you fast finishes on platinum, precious alloys, titanium and stainless steel. Long-lasting, made in 3 versatile shapes to access the tightest areas. Color-coded for grit identification. Available in three color-coded grits: medium (green), fine (gray) and extra-fine (red). All 3/32" shanks. Max. operating speeds: 10,000rpm. Made in Germany.

Green Gem Polishers – Medium

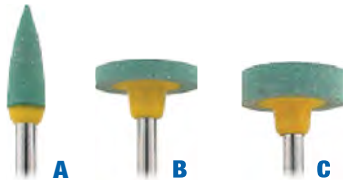
	Shape	Dimensions	Item#	Each
A.	Mtd. Point	13 x 4mm	**145-1322**	**$8.85**
B.	SE Mtd. Wheel	11 x 2mm	**145-1321**	**8.85**
C.	SE Mtd. Wheel	11 x 4mm	**145-1323**	**15.60**

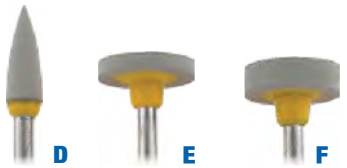
Gray Gem Polishers – Fine

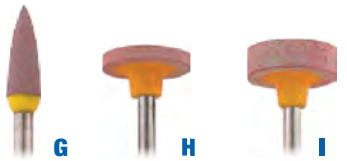
	Shape	Dimensions	Item#	Each
D.	Mtd. Point	13 x 4mm	**145-1325**	**$8.85**
E.	SE Mtd. Wheel	11 x 2mm	**145-1324**	**8.85**
F.	SE Mtd. Wheel	11 x 4mm	**145-1326**	**15.60**

Red Gem Polishers – Extra-Fine

	Shape	Dimensions	Item#	Each
G.	Mtd. Point	13 x 4mm	**145-1328**	**$8.85**
H.	SE Mtd. Wheel	11 x 2mm	**145-1327**	**8.85**
I.	SE Mtd. Wheel	11 x 4mm	**145-1329**	**15.60**







J. Gem Polisher Set – 3/32" Shank

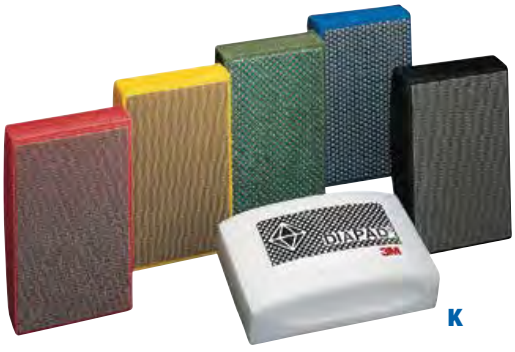
Includes of one each shape and grit.

	Description	Item#	Each
J.	9-Piece Set	**145-1320**	**$94.50**

K. 3M™ Diamond Hand Pads

Use for precision sharpening of all your blades and tools. Each pad has one cutting face that contains micron-graded diamonds. Open dot pattern provides aggressive cutting action and reduces loading. Flexible backing conforms to irregular surfaces. Pads are color-coded for easy grit identification. Cutting face measures 3¾"L x 2¼"W. Available individually or in a set of all six grits.

	Color	Grit	Micron	Item#	Each
	Green	60	250	**240-3060**	**$35.65**
	Black	120	125	**240-3061**	**27.50**
	Red	200	74	**240-3062**	**22.45**
	Yellow	400	40	**240-3063**	**17.80**
	White	800	20	**240-3064**	**17.80**
	Blue	1800	10	**240-3065**	**17.80**
K.	6-Piece Set			**240-3085**	**119.95**

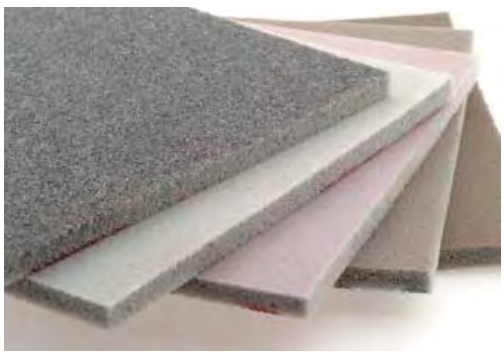


L. 3M™ Sponge Sanding Pads

Flexible, palm-sized Sponge Sanding Pads from 3M conform to almost any surface contour. Made of long-lasting, closed-cell rubber with micron-graded aluminum oxide abrasive grains, these pads will not gouge the work surface.

3M Sponge Sanding Pads can be used wet or dry for a variety of applications as well as folded or trimmed to fit into detailed areas. Each pad measures 4½" x 5½". Available in Medium, Fine, Super-Fine, Ultra-Fine and Micro-Fine as well as a Set of all 5.

			EACH Prices		
	Description	Item#	1-4	5-19	20+
	Medium Pad	**108-7020**	**$1.88**	**$1.72**	**$1.65**
	Fine Pad	**108-7015**	**1.88**	**1.72**	**1.65**
	Super-Fine Pad	**108-7010**	**1.88**	**1.72**	**1.65**
	Ultra-Fine Pad	**108-7005**	**3.20**	**2.93**	**2.80**
	Micro-Fine Pad	**108-7000**	**3.20**	**2.93**	**2.80**
L.	5-Piece Set	**108-7025**	SET Price		**11.75**



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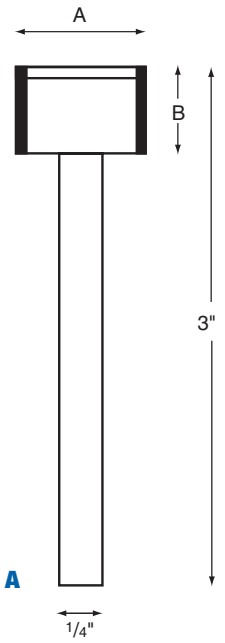
Diamond and CBN Pins

Diamond and CBN (cubic boron nitride) are superior abrasives with material removal rates beyond those of conventional abrasives such as aluminum oxide or silicon carbide. Our diamond pins are ideal for use on carbides and extremely hard steels and ceramics. Our CBN pins are recommended for use on high-carbon, high-chrome, high-speed steels such as M2, M3, M7 and T15; die steels such as D2, D3, HB and A&O; alloy steels harder than 50 HRC; and nickel- and cobalt-based super alloys such as titanium and stainless steel. The cutting edges last longer, resist breakdown better, produce more ground parts per hour and improve the quality of the finished product, helping reduce overall costs. When heat distortion is an important factor, CBN is the wise choice because it runs cooler than diamond.

Diameter	Maximum RPM
.020"–.200"	60,000–120,000
.200"–.500"	45,000–60,000
.500"–1.00"	30,000–45,000

Maximum ½" overhang

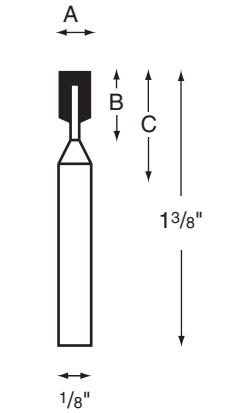


A

A. BX and GX Series (BX = CBN, GX = Diamond) – ¼" Shank

BX are all 80/100 grit. GX are as follows: coarse is 100/120 grit, fine is 140/170 grit. Measure 3" long.

Dimensions A	Dimensions B	CBN 80/100 BX Series Coarse	CBN 80/100 BX Series Item#	Diamond 100/120 GX Series Coarse	Diamond 100/120 GX Series Item#	Diamond 140/170 GX Series Fine	Diamond 140/170 GX Series Item#	Each
9/64"	¼"	BX-141	**247-1410**	GX-141C	**235-3601**	GX-141F	**235-3600**	**$15.70**
5/32"	¼"	BX-156	**247-1560**	GX-156C	**235-3651**	GX-156F	**235-3650**	**15.70**
3/16"	¼"	BX-188	**247-1880**	GX-188C	**235-3701**	GX-188F	**235-3700**	**15.70**
7/32"	¼"	BX-218	**247-2180**	GX-218C	**235-3751**	GX-218F	**235-3750**	**15.70**
¼"	⅛"	BX-250/2	**247-2502**	GX-250/2C	**235-3801**	GX-250/2F	**235-3800**	**17.45**
¼"	¼"	BX-250/4	**247-2504**	GX-250/4C	**235-3851**	GX-250/4F	**235-3850**	**17.45**
5/16"	¼"	BX-312/4	**247-3124**	–	**–**	GX-312/4F	**235-3950**	**17.45**
5/16"	⅜"	BX-312/6	**247-3126**	GX-312/6C	**235-4001**	GX-312/6F	**235-4000**	**17.45**
⅜"	⅛"	BX-375/2	**247-3752**	GX-375/2C	**235-4051**	GX-375/2F	**235-4050**	**22.90**
⅜"	¼"	BX-375/4	**247-3754**	GX-375/4C	**235-4101**	GX-375/4F	**235-4100**	**22.90**
⅜"	⅜"	BX-375/6	**247-3756**	GX-375/6C	**235-4151**	GX-375/6F	**235-4150**	**22.90**
½"	¼"	BX-500/4	**247-5004**	–	**–**	–	**–**	**26.50**
½"	⅜"	BX-500/6	**247-5006**	GX-500/6C	**235-4251**	GX-500/6F	**235-4250**	**26.35**
½"	½"	BX-500/8	**247-5008**	GX-500/8C	**235-4301**	GX-500/8F	**235-4300**	**26.35**
¾"	¼"	BX-750/4	**247-7504**	GX-750/4C	**235-4351**	GX-750/4F	**235-4350**	**39.45**
¾"	½"	BX-750/8	**247-7508**	GX-750/8C	**235-4401**	GX-750/8F	**235-4400**	**39.45**



B

B. B and G Series (B = CBN, G = Diamond) – ⅛" Shank

Coarse is 140/170 grit, fine is 200/230 grit. Measure 1⅜" long.

Dimensions A	Dimensions B	Dimensions C	CBN 140/170 B Series Coarse	CBN 140/170 B Series Item#	Each	Diamond 140/170 Coarse	Diamond 140/170 Item#	Diamond 200/230 Fine	Diamond 200/230 Item#	Each
0.02"	1/16"	⅛"	B-20	**246-0200**	**$9.95**	G-20C	**235-1451**	G-20F	**235-1450**	**$10.25**
0.025"	3/32"	¼"	B-25	**246-0250**	**9.95**	G-25C	**235-1501**	G-25F	**235-1500**	**10.25**
0.03"	3/32"	¼"	B-30	**246-0300**	**8.65**	G-30C	**235-1551**	G-30F	**235-1550**	**8.65**
0.035"	3/32"	¼"	B-35	**246-0350**	**8.40**	G-35C	**235-1601**	G-35F	**235-1600**	**8.65**

Coarse is 100/120 grit, fine is 200/230 grit. Measure 1⅜" long.

Dimensions A	Dimensions B	Dimensions C	Diamond 100/120 Coarse	Diamond 100/120 Item#	Diamond 200/230 Fine	Diamond 200/230 Item#	Each
0.04"	⅛"	⅜"	G-40C	**235-1651**	G-40F	**235-1650**	**$8.65**
0.045"	⅛"	⅜"	G-45C	**235-1701**	G-45F	**–**	**8.65**
0.05"	⅛"	⅜"	G-50C	**235-1751**	G-50F	**235-1750**	**8.65**
0.055"	⅛"	⅜"	G-55C	**235-1801**	G-55F	**–**	**8.65**
0.06"	⅛"	⅜"	G-60C	**235-1851**	G-60F	**235-1850**	**8.65**
0.07"	5/32"	½"	G-70C	**235-1901**	G-70F	**235-1900**	**8.65**
0.08"	5/32"	½"	G-80C	**235-1951**	G-80F	**235-1950**	**8.65**
0.09"	5/32"	½"	G-90C	**235-2001**	G-90F	**235-2000**	**8.65**
0.1"	5/32"	½"	G-100C	**235-2051**	G-100F	**235-2050**	**8.65**
0.11"	5/32"	½"	G-110C	**235-2101**	G-110F	**235-2100**	**8.65**
0.125"	5/32"	½"	G-125C	**235-2151**	G-125F	**235-2150**	**8.65**

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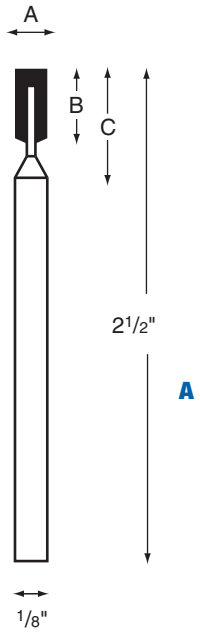
A. BL and GL Series (BL = CBN, GL = Diamond) – 1/8" Shank

BL are all 80/100 grit. GL are as follows: coarse is 100/120 grit, fine is 200/230 grit. Measure 2½" long.

Dimensions A	B	C	CBN 80/100 BL Series Coarse	Item#	Diamond 100/120 GL Series Coarse	Item#	200/230 GL Series Fine	Item#	Each
0.04"	1/8"	3/8"	BL-40	**246-0400**	GL-40C	**235-2351**	GL-40F	**235-2350**	**$8.65**
0.045"	1/8"	3/8"	BL-45	**246-0450**	–	**–**	–	**–**	**8.40**
0.05"	1/8"	1"	BL-50/1	**246-0501**	GL-50/1C	**235-2501**	–	**–**	**8.40**
0.05"	1/8"	3/8"	BL-50	**246-0500**	GL-50C	**235-2451**	GL-50F	**235-2450**	**8.65**
0.055"	1/8"	3/8"	BL-55	**246-0550**	–	**–**	–	**–**	**8.65**
0.06"	1/8"	3/8"	BL-60	**246-0600**	GL-60C	**235-2601**	GL-60F	**235-2600**	**8.65**
0.06"	1/8"	1"	BL-60/1	**246-0601**	–	**–**	–	**–**	**9.95**
0.07"	5/32"	1/2"	BL-70	**246-0700**	GL-70C	**235-2701**	GL-70F	**235-2700**	**8.65**
0.07"	5/32"	1"	BL-70/1	**246-0701**	GL-70/1C	**235-2751**	GL-70/1F	**235-2750**	**10.15**
0.08"	5/32"	1/2"	BL-80	**246-0800**	GL-80C	**235-2801**	GL-80F	**235-2800**	**8.65**
0.09"	5/32"	1/2"	BL-90	**246-0900**	GL-90C	**235-2901**	GL-90F	**235-2900**	**8.65**
0.09"	5/32"	1"	BL-90/1	**246-0901**	–	**–**	–	**–**	**10.15**
0.1"	5/32"	1/2"	BL-100	**246-1000**	GL-100C	**235-3001**	GL-100F	**235-3000**	**8.65**
0.1"	5/32"	1"	BL 100/1	**246-1001**	–	**–**	–	**–**	**10.15**
0.11"	5/32"	1/2"	BL-110	**246-1100**	–	**–**	–	**–**	**8.65**
0.11"	5/32"	1"	BL-110/1	**246-1101**	–	**–**	–	**–**	**10.15**
0.125"	5/32"	1/2"	BL-125	**246-1250**	GL-125C	**235-3201**	GL-125F	**235-3200**	**8.65**
0.125"	5/32"	1"	BL-125/1	**246-1251**	–	**–**	–	**–**	**10.15**
0.141"	1/4"	–	BL-141	**246-1410**	GL-141C	**235-3301**	GL-141F	**235-3300**	**10.45**
0.156"	1/4"	–	BL-156	**246-1561**	GL-156C	**235-3351**	GL-156F	**235-3350**	**10.45**
0.188"	1/4"	–	BL-188	**246-1880**	GL-188C	**235-3401**	GL-188F	**235-3400**	**14.85**
0.218"	1/4"	–	BL-218	**246-2180**	GL-218C	**235-3451**	GL-218F	**235-3450**	**15.45**
0.25"	1/8"	–	BL-250/2	**246-2502**	GL-250/2C	**235-3501**	GL-250/2F	**235-3500**	**15.70**
0.25"	1/4"	–	BL-250/4	**246-2504**	GL-250/4C	**235-3551**	GL-250/4F	**235-3550**	**15.70**

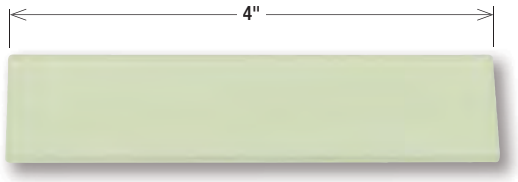


A

B. SUPER Dresser

Used to dress NSS and SUPER Ceramic Diamond Stones, as well as Cristone stones. Measures 1/8" x 1" x 4" (3 x 25 x 100mm).

Description	Item#	Each
SUPER Dresser	**351-0300**	**$17.75**

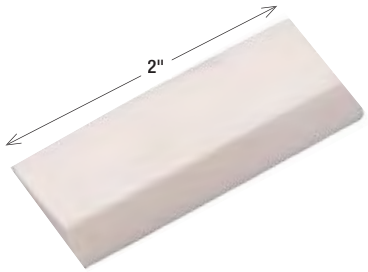


B

C. Wet Stick Diamond Dresser

Use this dressing stone with water for cleaning diamond points. Measures 2"L x 3/4"W x 1/2" thick.

Description	Item#	Each
Wet Stick	**380-1022**	**$2.35**



C

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Mounted Diamond Points – 1/8" Shank

Inexpensive yet durable cutting tools with diamond particles nickel-electroplated onto medium carbon steel. Use on carbide, steel, ceramic and wood surfaces. Heads shown actual size. Measure 1¾" long with ⅛" shanks. Sold individually and in three sets (see below). Always use with water or Lubricant/Thinner (see p. 105). All 1–1.5mm diameter points are fine (150 grit); all 2–5mm diameter points are medium (120 grit). Max. operating speeds: 80,000rpm for 1–3mm dia; 60,000rpm for 3.5–4mm dia; 50,000rpm for 5mm dia.

Heads shown actual size.

Style	10A	15A	20A	25A	30A	35A	40A	50A
Dia. x L (mm)	1 x 8	1.5 x 8	2 x 8	2.5 x 8	3 x 10	3.5 x 10	4 x 10	5 x 10
Grit	150	150	120	120	120	120	120	120
Max. RPM	80,000	80,000	80,000	80,000	80,000	60,000	60,000	50,000
Item#	**226-1250**	**226-1251**	**226-1252**	**226-1253**	**226-1254**	**226-1255**	**226-1256**	**226-1257**
Each	**$3.50**	**3.50**	**3.50**	**3.50**	**3.50**	**3.50**	**3.75**	**3.75**

Style	20B	30B	50B	15C	20C	25C	30C	35C
Dia. x L (mm)	2	3	5	1.5 x 8	2 x 8	2.5 x 10	3 x 10	3.5 x 10
Grit	120	120	120	150	120	120	120	120
Max. RPM	80,000	80,000	50,000	80,000	80,000	80,000	80,000	60,000
Item#	**226-1258**	**226-1259**	**226-1260**	**226-1261**	**226-1262**	**226-1263**	**226-1264**	**226-1265**
Each	**$3.50**	**3.50**	**3.75**	**3.50**	**3.50**	**3.50**	**3.50**	**3.50**

Style	40C	50C	20F	30F	50F	20P	30P
Dia. x L (mm)	4 x 10	5 x 10	2 x 10	3 x 10	5 x 10	2 x 12	3 x 15
Grit	120	120	120	120	120	120	120
Max. RPM	60,000	50,000	80,000	80,000	50,000	80,000	80,000
Item#	**226-1266**	**226-1267**	**226-1275**	**226-1276**	**226-1277**	**226-1268**	**226-1269**
Each	**$3.75**	**3.75**	**3.50**	**3.50**	**3.75**	**3.50**	**3.50**

Style	15R	20R	30R	30S	20T	30T	30V
Dia. x L (mm)	1.5 x 10	2 x 12	3 x 14	3 x 6	2 x 10	3 x 10	3 x 10
Grit	150	120	120	120	120	120	120
Max. RPM	80,000	80,000	80,000	80,000	80,000	80,000	80,000
Item#	**226-1270**	**226-1272**	**226-1273**	**226-1274**	**226-1278**	**226-1279**	**226-1280**
Each	**$3.50**	**3.50**	**3.50**	**3.50**	**3.50**	**3.50**	**3.50**

A

A. Diamond Mounted Point Sets – 1/8" Shank

	Description	Item#	Each
A.	10-Piece Set (styles 10A, 20A, 30A, 30B, 15C, 25C, 20F, 20P, 30P, 20R)	**226-1281**	**$31.50**
	20-Piece Set (styles 10A, 15A, 20A, 25A, 30A, 35A, 20B, 30B, 15C, 20C, 25C, 30C, 20F, 30F, 20P, 30P, 15R, 20R, 30R, 20T)	**226-1282**	**63.00**
	30-Piece Set (one of each style)	**226-1283**	**94.50**

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Diamond Cutters – 3/32" Shank

Feature medium/fine grit diamond particles electroplated onto stainless steel for unmatched quality and durability. Great for stone carving and cleanup work on glass, ceramics and metals. Cutters shown actual size, although entire shank is not displayed. Measure 1¾" long with 3/32" stainless steel shanks. Sold individually and in three sets (see below). Always use with water or Lubricant/Thinner (see p. 105). Max. operating speed: 30,000rpm.

Heads shown actual size.

Dia. x L (mm)	2 x 1.5	2.7 x 1.5	4 x 1.5	6 x 2	1.5 x 4	2 x 8	3 x 4	7 x 12
Shape	Inverted Cone	Inverted Cone	Inverted Cone	Inverted Cone	Rounded Point	Rounded Point	Cylinder	Rounded Cylinder
Item#	**226-1161***	**226-1162***	**226-1163***	**226-1164***	**226-1165**	**226-1166***	**226-1167***	**226-1168***
Each	**$4.25**	**4.25**	**4.50**	**5.50**	**4.25**	**4.25**	**5.25**	**5.25**

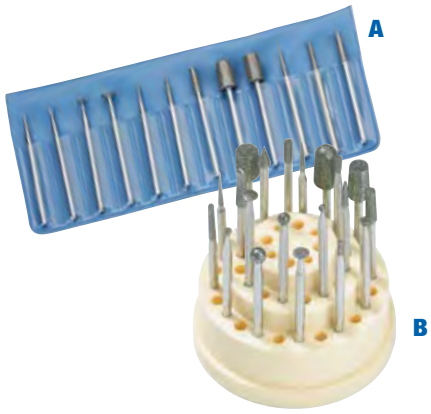
**Items available in 20-Piece Master Set below*

Dia. x L (mm)	6 x 7	1.5 x 10	2 x 12	3 x 12	3.5 x 6	1.5 x 10	0.9 x 4	2 x 5
Shape	Cylinder	Point	Rounded Cylinder	Rounded Cylinder	Point	Point	Point	Inverted Cone
Item#	**226-1169***	**226-1170***	**226-1171***	**226-1172***	**226-1181***	**226-1182**	**226-1183***	**226-1184***
Each	**$8.75**	**4.25**	**4.25**	**5.25**	**6.25**	**4.25**	**4.25**	**4.25**

**Items available in 20-Piece Master Set below*

Dia. x L (mm)	6 x 10	2.5 x 7	2 x 7	1 x 1	2 x 2	3 x 3	4 x 4	4 x 0.8
Shape	Cylinder	Cylinder	Cylinder	Round	Round	Round	Round	Wheel
Item#	**226-1185***	**226-1186***	**226-1187**	**226-1188***	**226-1189***	**226-1190***	**226-1191**	**226-1192***
Each	**$8.75**	**4.75**	**4.75**	**4.25**	**4.25**	**4.75**	**5.50**	**4.75**

**Items available in 20-Piece Master Set below*



A, B Diamond Cutter Sets – 3/32" Shank

Description	Item#	Each
A. 12-Piece Set #1 (one each of 226-1161 through 226-1172)	**226-1160**	**$55.95**
12-Piece Set #2 (one each of 226-1181 through 226-1192)	**226-1180**	**49.95**
B. 20-Piece Master Set (one each of asterisked above)	**226-1159**	**86.95**

C. Diamond Bit Sets

These economical and functional medium/fine diamond bit sets are a good value for the novice or hobbyist. Can be used on ceramic, glass, metal or stone. Include 20 bits in different shapes and sizes and a handy plastic organizer. Bits measure 1¾" (44.5mm) long. Available with 3/32" or 1/8" shanks. Max. operating speed: 30,000rpm. Sold only in the set. Always use with water or Lubricant/thinner (see p. 105).

Description	Shank	Item#	Each
20-Piece Set	3/32"	**226-1220**	**$8.45**
	1/8"	**226-1221**	**8.45**

All prices subject to change without notice.

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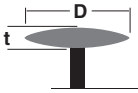
Diamond Wheels and Points – 3/32" Shank

A wide variety of shapes and sizes of diamond wheels convenient for cutting hard metals, ceramics, stones and more. A single layer of diamond is nickel-electroplated to each wheel, ensuring long life when used with only slight pressure. The diamonds are in an exposed position for fast cutting action. All are 140/170 grit with 3/32" shanks. Made in Sweden.

Diameter	Maximum RPM
.020"–.200"	60,000–120,000
.200"–.500"	45,000–60,000
.500"–1.00"	30,000–45,000

Maximum 1/2" overhang

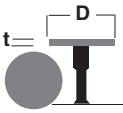
A



Dimensions (inches)

A. Style	D	t	Item#	Each
DT-109	0.366	0.051	**230-2050**	**$44.00**

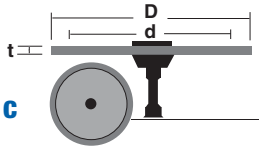
B



Dimensions (inches)

B. Style	D	t	Item#	Each
DT-129P	0.248	0.02	**230-2850**	**$35.95**
DT-105P	0.252	0.035	**230-1850**	**40.80**

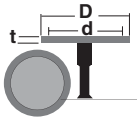
C



Dimensions (inches)

C. Style	D	d	t	Item#	Each
DT-124P	0.602	0.512	0.018	**230-2600**	**$53.50**

D



Dimensions (inches)

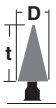
D. Style	D	d	t	Item#	Each
DT-128P	0.361	0.276	0.02	**230-2800**	**$44.00**
DT-56P	0.343	0.268	0.051	**230-0350**	**44.00**

E

Dimensions (inches)

E. Style	D	t	Item#	Each
DB-902A	0.051	0.158	**230-4050**	**$14.40**
DT-95	0.063	0.295	**230-1450**	**16.95**
DT-509	0.063	0.394	**230-3050**	**18.90**
DT-117	0.094	0.295	**230-2450**	**17.90**
DT-510	0.094	0.394	**230-3100**	**18.90**

F



F. Style	D	Taper	t	Item#	Each
DT-103	0.169	80°	0.106	**230-1750**	**$33.40**
DT-236	0.287	60°	0.236	**230-3000**	**42.90**

G

Dimensions (inches)

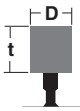
G. Style	D	Item#	Each
DB-2/0	0.032	**230-3250**	**$14.40**
DB-102	0.051	**230-3300**	**14.40**
DB-104	0.067	**230-3350**	**14.40**
DB-105	0.071	**230-3400**	**14.75**
DB-108	0.098	**230-3450**	**15.20**
DT-101	0.118	**230-1650**	**22.80**
DT-119	0.158	**230-2550**	**28.50**

H

Dimensions (inches)

H. Style	D	t	Item#	Each
DT-86	0.055	0.276	**230-1200**	**$14.95**
DT-100	0.098	0.276	**230-1600**	**17.90**

I



Dimensions (inches)

I. Style	D	t	Item#	Each
DT-116	0.232	0.236	**230-2400**	**$39.00**

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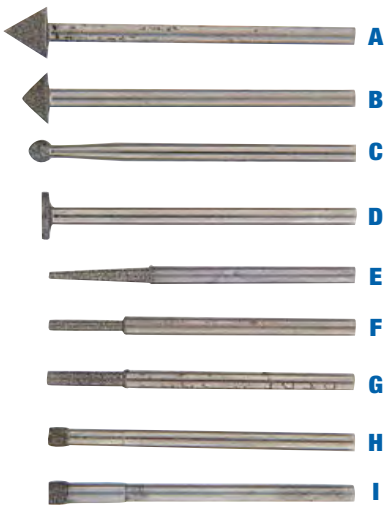
A-I Diamond Cutters – 3/32" Shank

Feature premium-grade, high-impact-strength industrial diamonds electroplated onto ten different shapes. This process provides a super-abrasive grinding and cutting system. The diamonds protrude from the bond so that only the abrasive crystals are in contact with the workpiece. This greatly reduces frictional heat and thermal distortion of the work surface. The use of a coolant (we recommend Gesswein Stoning and Lubricating Oil—see p. 105) will maximize tool life and be a great aid where minimum heat distortion is required. Max. operating speed: 60,000rpm. All are 150 grit with 3/32" shanks.



Style	Style#	Item#	Each
A. Countersink, 60°	101	**226-1010**	**$21.50**
B. Countersink, 90°	102	**226-1020**	**21.80**
C. Ball, 3mm	103	**226-1030**	**21.90**
D. Wheel, 6mm x 1mm	104	**226-1040**	**21.80**
E. Reamer, 2mm x 1mm taper	105	**226-1050**	**21.50**
F. Solid, 1.5mm	106	**226-1060**	**21.50**
G. Solid, 2mm	107	**226-1070**	**21.50**
H. Core Drill, 2.5mm	109	**226-1090**	**21.50**
I. Core Drill, 3mm	110	**226-1100**	**21.50**

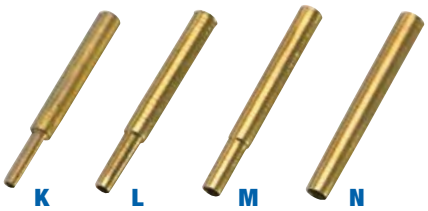
J. Diamond Drilling Compound

Used with Diamond Lapp Drills (below) to drill holes in stones. Base in which diamond is suspended holds particles in place until they become embedded in face of drill.

Size	Item#	Each
1g Syringe	**216-0450**	**$8.35**

K-N Diamond Lapp Drills

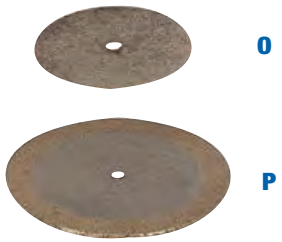
Hollow brass drills used with Diamond Drilling Compound (above) to make holes in stones without cracking them. Gently apply drill to surface on which diamond compound has been applied. Use slow speed and let up on drill frequently. Makes perfect holes in onyx, ruby, etc. Due to the 3.75mm shank, use with #30 handpiece. Must be used with Lubricant/Thinner.



Diameter	Item#	Each
K. 1.5mm	**813-0100**	**$4.75**
L. 2mm	**813-0200**	**4.75**
M. 2.5mm	**813-0300**	**4.75**
N. 3mm	**813-0400**	**4.75**
Set of all 4	**813-0500**	**18.25**

O, P Sintered Diamond Cut-Off Discs

These discs easily cut carbon fiber, carbide, steels, acrylics and other hard-to-cut materials. The 7/8" disc is sintered diamond throughout; the 1 1/4" disc is sintered diamond on outer edge only (approximately 1/8"). Each has 1/16" arbor hole. Max. operating speed: 20,000rpm.



Dia. x Thickness*	Item#	Each
O. 7/8" x .007"	**845-1080**	**$30.95**
P. 1 1/4" x .040"	**845-1085**	**36.95**

**Thickness of each disc may vary slightly.*

Q. Diamond Disc Set – 1/8" Shank

Electroplated diamond discs, all medium grit for cutting or sanding stones and glass. Discs measure 13/16" (20.25mm) dia. x 0.033" (.84mm) thick x 1/8"AH and have diamond electroplated on both sides. Sold individually or in a 6-piece kit, five discs and a 1/8" mandrel. Max. operating speed: 30,000rpm.

Description	Item#	Each
Diamond Disc 6 pc. Set	**226-1225**	**$13.95**
Diamond Disc	**226-1226**	**3.35**

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High-Speed Mini Diamond Points – 1/16" Shank

Premium points for use in high-speed, air-driven turbo handpieces with maximum operating speeds up to 80,000rpm. Feature diamond particles electroplated onto surgical-grade steel. Points shown at actual size, although entire shank is not displayed. Measure an average of 3/4" (20mm) long with 1/16" shanks. Sold individually and in sets of 12 and 24. Always use with water or Lubricant/Thinner (see p. 105). Choose from coarse (120 grit) and fine (260 grit). Mount in collet-type handpieces with one of our reducing collets (see below).

Shown actual size

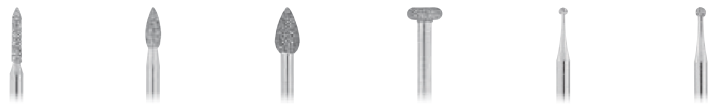
Grit							
120	Item#	226-1602*	226-1603	226-1604*	226-1605*	226-1606*	226-1607
260	Item#	226-1632*	226-1633	226-1634*	226-1635*	226-1636*	226-1637
Each	6pc	$2.95	2.95	2.95	2.95	2.95	2.95

**Items available in 12-Piece Set below.*

Grit							
120	Item#	226-1608*	226-1609	226-1610*	226-1611	226-1612	226-1613
260	Item#	226-1638*	226-1639	226-1640*	226-1641	226-1642	226-1643
Each	6pc	$2.95	2.95	2.95	2.95	2.95	2.95

**Items available in 12-Piece Set below.*

A



Grit							
120	Item#	226-1614	226-1615	226-1616*	226-1617	226-1618*	226-1619
260	Item#	226-1644	226-1645	226-1646*	226-1647	226-1648*	226-1649
Each	6pc	$2.95	2.95	2.95	2.95	2.95	2.95

**Items available in 12-Piece Set below.*

B

Grit							
120	Item#	226-1620*	226-1621	226-1622*	226-1623*	226-1624	226-1625*
260	Item#	226-1650*	226-1651	226-1652*	226-1653*	226-1654	226-1655*
Each	6pc	$2.95	2.95	2.95	2.95	2.95	2.95

**Items available in 12-Piece Set below.*

A, B High-Speed Mini Diamond Point Sets – 1/16" Shank

	Description	Coarse 120 Grit Item#	Fine 260 Grit Item#	Each
A.	12-Piece Set (asterisked above)	226-1601	226-1631	$26.95
B.	24-Piece Set (one each of above)	226-1600	226-1630	53.95

C-E Reducing Collets

Instantly converts your 1/8", 3mm or 3/32" collet to hold a 1/16" tool shank. Simply slip reducing collet into collet on your rotary handpiece to use 1/16" shanked tools. Make sure both the reducing collet and the tool shank are fully inserted into the handpiece collet. Stainless steel.

C D E

Size	Item#	Each
C. 1/8" to 1/16"	816-1502	$14.90
D. 3mm to 1/16"	816-1505	14.90
E. 3/32" to 1/16"	816-1503	14.90

6pc *Six-piece minimum; please order in multiples of six.*

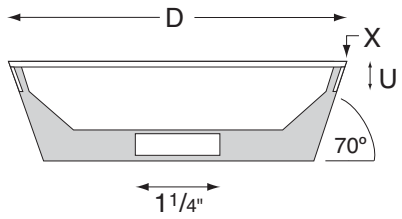
Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

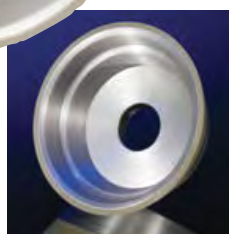
Diamond Grinding Wheels – 150 grit, 100 concentration

Feature man-made diamond, more consistent in shape than natural diamond, for sharp, even cutting action, durability and long life. Resin-bonded to produce a self-sharpening effect and even grit distribution. Can be used wet or dry on carbide, ceramic, glass, welds, quartz and other hard, brittle and short chipping materials.

A. Shape 11V9D

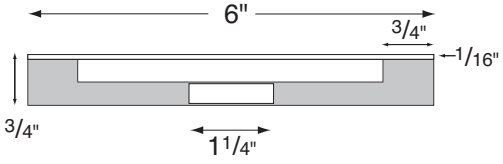
Diameter (D)	Grinding Surface (U)	Diamond Depth (X)	Item#	Each
3.75"	3/8"	1/16"	245-1020	$93.40
3.75"	3/8"	1/8"	245-1050	112.00
5"	7/16"	1/16"	245-1120	124.00
5"	7/16"	1/8"	245-1150	157.00

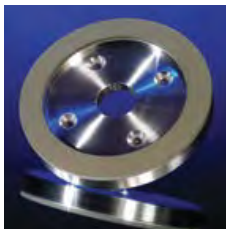



A

B. Shape 6A2C

Diameter	Grinding Surface	Diamond Depth	Item#	Each
6"	3/4"	1/16"	245-1200	$138.00

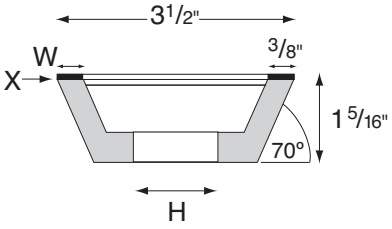


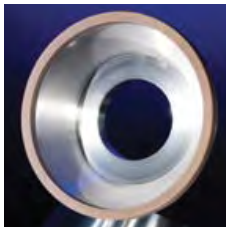

B

C. Shape 11A2

Hole (H)	Grinding Surface (W)	Diamond Depth (X)	Item#	Each
1 1/4"	3/8"	1/16"	245-2150	$95.00
1 1/4"	3/8"	1/8"	245-2160	122.00
20mm*	3/8"	1/16"	245-2155	96.00
20mm*	3/8"	1/8"	245-2165	125.00

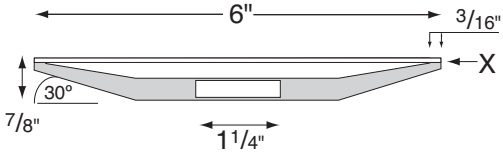
**20mm hole size used for Deckel machines.*




C

D. Shape 12A2

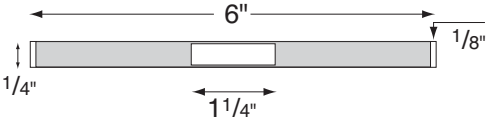
Diameter	Grinding Surface	Diamond Depth (X)	Item#	Each
6"	3/16"	1/16"	245-1250	$96.00
6"	3/16"	1/8"	245-1255	137.00



D

E. Shape 1A1

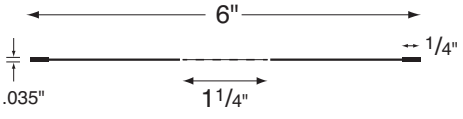
Diameter	Grinding Surface	Diamond Depth	Item#	Each
6"	1/4"	1/8"	245-1450	$102.00

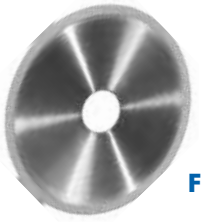


E

F. Shape 1A1R

Diameter	Grinding Surface	Diamond Depth	Item#	Each
6"	0.035"	.028"	245-1620	$89.30

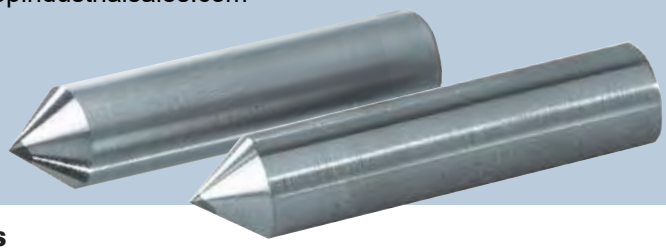


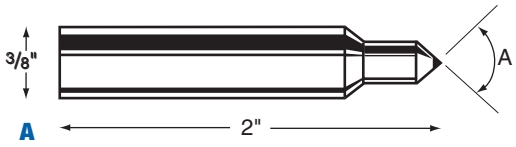

F

All prices subject to change without notice.

Single Point Diamond Tools

For truing and dressing abrasive wheels where precision, close-tolerance, high-finish grinding is required. Straight face, radius and form wheel dressing operations can be performed with accuracy and economy. All natural diamond.

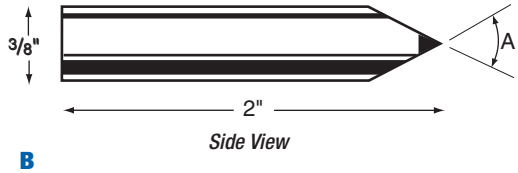




A. Diamond Cone Points

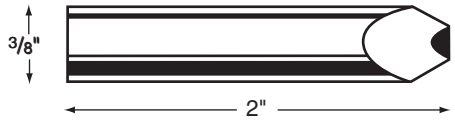
Used for accurate wheel forming.

Style	Dia. x L	Carat Size	Angle (A)	Item#	Each
CP1	3/8" x 2"	0.25	60°	**220-2160**	**$78.00**
CP1	3/8" x 2"	0.25	75°	**220-2175**	**68.85**
CP1	3/8" x 2"	0.25	90°	**220-2190**	**65.50**
CP2	3/8" x 2"	0.3	60°	**220-2260**	**101.00**
CP2	3/8" x 2"	0.3	75°	**220-2275**	**89.35**
CP2	3/8" x 2"	0.3	90°	**220-2290**	**73.65**
CP3	3/8" x 2"	0.5	60°	**220-2360**	**138.00**
CP3	3/8" x 2"	0.5	75°	**220-2375**	**117.00**
CP3	3/8" x 2"	0.5	90°	**220-2390**	**113.90**



Side View

B

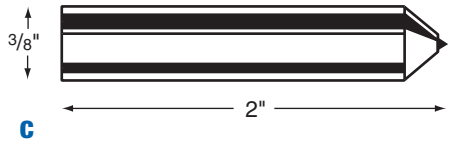


Top View

B. Diamond Chisel-Edge Points

Used for accurate wheel forming.

Style	Dia. x L	Carat Size	Angle (A)	Item#	Each
CE1	3/8" x 2"	0.25	60°	**220-3160**	**$78.75**
CE1	3/8" x 2"	0.25	75°	**220-3175**	**73.90**
CE1	3/8" x 2"	0.25	90°	**220-3190**	**71.60**
CE2	3/8" x 2"	0.3	60°	**220-3260**	**115.60**
CE2	3/8" x 2"	0.3	75°	**220-3275**	**101.00**
CE2	3/8" x 2"	0.3	90°	**220-3290**	**92.00**
CE3	3/8" x 2"	0.5	60°	**220-3360**	**164.00**
CE3	3/8" x 2"	0.5	75°	**220-3375**	**146.00**
CE3	3/8" x 2"	0.5	90°	**220-3390**	**128.00**



C

C. Regular and Select Point Diamond Dressers

Two qualities of diamonds are offered: the select-style stones have four to six usable points, and the regular-style stones have two to three usable points. Both styles can be reset. REG = regular diamond, SEL = select diamond.

Style	Dia. x L	Carat Size	Item#	Each
1REG	3/8" x 2"	0.25	**220-1100**	**$28.90**
1SEL	3/8" x 2"	0.25	**220-1150**	**48.70**
2REG	3/8" x 2"	0.35	**220-1200**	**43.65**
2SEL	3/8" x 2"	0.35	**220-1250**	**59.50**
3REG	3/8" x 2"	0.5	**220-1300**	**57.75**
3SEL	3/8" x 2"	0.5	**220-1350**	**81.45**
4REG	3/8" x 2"	0.6	**220-1400**	**76.90**
4SEL	3/8" x 2"	0.6	**220-1450**	**106.55**

D

D. Expendable Diamond Dressers

Throwaway economical dressing tools. Each has a natural diamond securely mounted so its sharpest point is exposed.

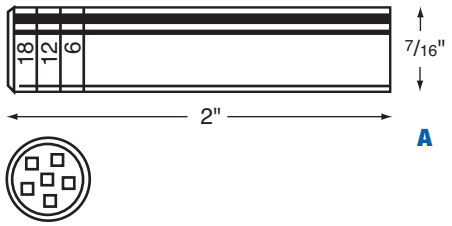
Style	Dia. x L	Carat Size	Item#	EACH Prices 1-11	12+
E41	1/4" x 7/8"	0.25	**220-0050**	**$16.20**	**$15.39**
E62	3/8" x 1 7/8"	0.25	**220-0100**	**16.20**	**15.39**
66	3/8" x 6"	0.25	**220-1860**	**16.55**	**15.72**
E72	7/16" x 1 7/8"	0.25	**220-0150**	**16.20**	**15.39**
E82	1/2" x 1 7/8"	0.25	**220-0200**	**15.95**	**15.15**

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

A. Cluster Diamond Dresser CL-18

A universal cluster tool for small surface and cylindrical grinders. Contains 18 diamonds. Six are exposed for immediate use; others appear as dresser wears down.

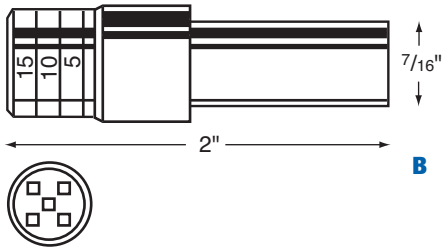
Style	Dia. x L	Item#	Each
CL-18	7/16" x 2"	**220-4150**	**$52.80**



B. Heavy-Duty Cluster Diamond Dresser HD-15

For roughing out or for commercial finish. Nib is loaded with 15 diamonds. Five are exposed for immediate use; others appear as dresser wears down.

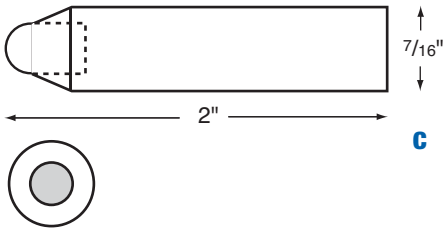
Style	Dia. x L	Item#	Each
HD-15	7/16" x 2"	**220-4200**	**$78.00**



C. Cluster Diamond Dresser CB-24

A bullet-nose carbide bond impregnated dresser randomly set throughout with 24 small diamonds for rough dressing operations on 36 to 60 grit abrasive wheels.

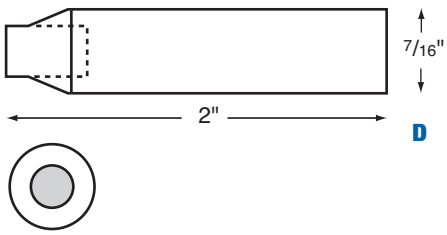
Style	Dia. x L	Item#	Each
CB-24	7/16" x 2"	**220-4100**	**$50.20**



D. Cluster Diamond Dresser PG-4R

A flat-faced nickel alloy matrix dresser containing many particles of diamond sand spaced precisely for dressing operations on 80 grit or finer abrasive wheels.

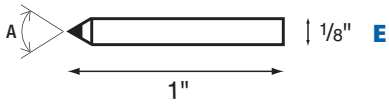
Style	Dia. x L	Item#	Each
PG-4R	7/16" x 2"	**220-4250**	**$49.45**



E. Diamond Phono Points

High-quality miniature points with full-size, long-lasting diamonds for accurate wheel forming and intricate, small radius dressing.

Size	Dia. x L	Angle (A)	Item#	Each
Large	1/8" x 1"	60°	**220-0550**	**$7.80**
Large	1/8" x 1"	75°	**220-0600**	**7.92**
Large	1/8" x 1"	90°	**220-0650**	**6.30**



F. Offhand Wheel Dresser

Has 35 to 40 exposed diamond points set in a carbide matrix. Sturdy construction with comfortable, sure-grip plastic handle. Measures 9¾" long.

Description	Item#	Each
Wheel Dresser	**220-4050**	**$74.00**

All prices subject to change without notice.

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SUPRA® "MM" and "MKM" Brushes

Gesswein miniature mandrel-mounted wheel and cup brushes are made with solid steel ring construction for durability. Brush filaments are permanently anchored in the solid steel ring and uniformly distributed for even wear. Great for flat, curved, small and hard-to-reach surfaces.

Hard and soft bristle types are made of animal hair. Wire brushes constructed of .003" crimped brass, .003" or .005" crimped steel or .005" crimped stainless steel. Maximum operating speed: 15,000rpm. Sold in full dozens; select bristles also available individually. **Items with asterisk also available on 3mm shanks.** Made in USA.

Made in the USA

SUPRA® "MM" Bristle Wheel Brushes

Styles 701D, 711D, 702D and 712D each contain two rows of upright bristles. D = Double.

Shown actual size

Style, Bristle Type	710, Hard	700, Soft	711, Hard/Gray	711, Hard/Black	711D, Hard	701, Soft
Shank	3/32"	3/32"	3/32"	3/32"	3/32"	3/32"
Dia. (Trim Length)	9/16" (1/8")	9/16" (1/8")	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")
Item#	**112-7100**	**112-7000**	**112-7110**	**112-7109**	**112-7111**	**112-7010**
DOZEN 1-11	**$8.95**	**10.45**	**7.40**	**6.15**	**51.80**	**8.25**
DOZEN 12+	**$7.46**	**8.71**	**6.17**	**5.12**	**43.16**	**6.87**

111-7111 $5.18/EACH

Shown actual size

Style, Bristle Type	701D, Soft	712D, Hard	702D, Soft	713, Hard	703, Soft
Shank	3/32"	1/8"	1/8"	1/8"*	1/8"*
Dia. (Trim Length)	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")
Item#	**112-7011**	**112-7120**	**112-7020**	**112-7130**	**112-7030**
DOZEN 1-11	**$55.20**	**47.75**	**49.50**	**11.90**	**14.50**
DOZEN 12+	**$46.00**	**39.79**	**41.25**	**9.92**	**12.08**

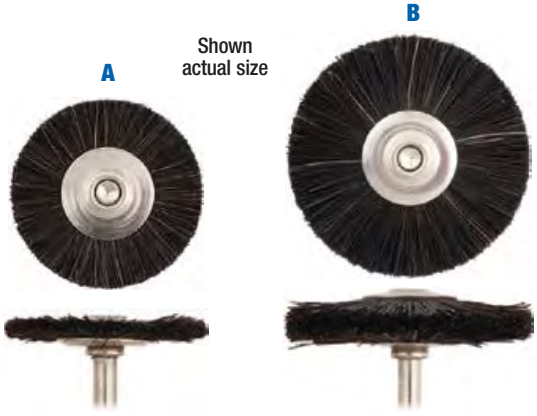
111-7011 $5.52/EACH

**Styles also available on 3mm shanks*

A, B SUPRA® "MKM" Mounted Wheel Brushes – 1/8" Shank

Feature hard, evenly distributed, converging animal hair bristles mounted on 1/8" shanks. Available in two styles: 1" diameter standard thickness and heavy-duty 1 1/4" diameter double thickness.

Shown actual size



Style, Bristle Type	A. Hard	B. Hard, Double Thick
Shank	1/8"	1/8"
Dia. (Trim Length)	1" (1/4")	1 1/4" (3/8")
Item#	**112-5100**	**112-5200**
DOZEN 1-11	**$22.95**	**69.50**
DOZEN 12+	**$19.12**	**57.91**

111-5200 $6.95/EACH

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

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SUPRA® "MM" Wire Wheel Brushes

All made of crimped wire. Styles 722 and 732 each contain two rows of upright wire. D = Double.

Shown actual size

Style, Bristle Type	721, Brass .003"	731, Steel .003"	731, Stainless .005"	722D, Brass .003"	732D, Steel .003"	723, Brass .003"	733, Steel .003"
Shank	3/32"	3/32"	1/8"	1/8"	1/8"	1/8"*	1/8"*
Dia. (Trim Length)	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")	3/4" (3/16")
Item#	**112-7210**	**112-7310**	**112-7315**	**112-7220**	**112-7320**	**112-7230**	**112-7330**
DOZEN 1-11	**$26.30**	**26.75**	**39.50**	**84.00**	**79.50**	**26.80**	**26.95**
DOZEN 12+	**$21.92**	**22.29**	**32.92**	**70.00**	**66.25**	**22.33**	**22.46**

**Styles also available on 3mm shanks*

111-7315 $3.95/EACH **111-7220 $8.40/EACH** **111-7320 $7.95/EACH**

Style, Bristle Type	734, Steel .005"	734, Stainless .005"
Shank	1/8"	1/8"
Dia. (Trim Length)	1" (5/8")	1" (5/8")
Item#	**112-7340**	**112-5115**
DOZEN 1-11	**$30.65**	**39.95**
DOZEN 12+	**$25.54**	**33.29**

734, Steel

734, Stainless

Shown actual size

SUPRA® "MM" Bristle Cup Brushes

Hollow center cups will hold compounds when polishing vertically. This construction allows better control of brush movement.

Shown actual size

Style, Bristle Type	760, Hard	750, Soft	761, Hard	751, Soft	762, Hard	752, Soft	764, Hard	754, Soft
Shank	3/32"	3/32"	3/32"	3/32"	1/8"*	1/8"*	1/8"*	1/8"*
Dia. (Trim Length)	1/2" (5/32")	1/2" (5/32")	9/16" (1/4")	9/16" (1/4")	9/16" (1/4")	9/16" (1/4")	1" (7/16")	1" (7/16")
Item#	**112-7600**	**112-7500**	**112-7610**	**112-7510**	**112-7620**	**112-7520**	**112-7640**	**112-7540**
DOZEN 1-11	**$42.30**	**41.60**	**29.75**	**29.70**	**11.50**	**12.95**	**50.40**	**57.25**
DOZEN 12+	**$35.25**	**34.67**	**24.79**	**24.75**	**9.58**	**10.79**	**42.00**	**47.71**

**Styles also available on 3mm shanks*

SUPRA® "MM" Wire Cup Brushes

All made of .003" diameter crimped wire except 112-7825 which is made of .005" diameter crimped wire.

Shown actual size

Style, Bristle Type	782, Steel .003"	782, Stainless .005"	771, Brass .003"	772, Brass .003"
Shank	1/8"*	1/8"	3/32"	1/8"*
Dia. (Trim Length)	5/8" (1/4")	5/8" (1/4")	9/16" (1/4")	9/16" (1/4")
Item#	**112-7820**	**112-7825**	**112-7710**	**112-7720**
DOZEN 1-11	**$30.90**	**86.25**	**32.90**	**31.95**
DOZEN 12+	**$25.75**	**71.87**	**27.42**	**26.62**

**Styles also available on 3mm shanks*

A Cup, End, and Wheel Brushes Both bristle and metal filaments, on 3/32" shanks

B Cup and End bristle brushes on 1/8" shanks

A, B SUPRA® Brush Sets

Twelve of our most popular Supra brushes.

	Description	Shank	Item#	Each
A.	Set #1	3/32"	**112-8000**	**$16.50**
B.	Set #2	1/8"	**112-8003**	**21.90**

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SUPRA® "ME" Brushes

Gesswein miniature mandrel-mounted end brushes are available in a wide variety of sizes. One-piece ferrule construction ensures that the stem and ferrule will not become separated during use. Plastic ferrules are available to prevent scratching when used for interior polishing work. In the table below, please note that those brushes with a style number containing the letter "P" have plastic ferrules, which are slightly larger than stated diameter. All other ferrules are metal. Hard and soft bristle types are made of animal hair. Nylon end brushes consist of 0.018" strands of 500 grit silicon carbide. Our .003" wire end brushes are straight while .005" diameter wire end brushes are crimped. Maximum operating speed: 15,000rpm. **Items with asterisk also available on 3mm shanks.** Made in USA.

Made in the USA

SUPRA® "ME" Bristle and Nylon End Brushes

Shown actual size

Style, Bristle Type	864, Hard	860, Hard	860 3/8, Hard	860 1/2, Hard	850, Soft	861, Hard	851, Soft	859, Hard	859P, Hard	859P, Nylon
Shank	3/32"	3/32"	3/32"	3/32"	3/32"	3/32"	3/32"	1/8"*	1/8"	1/8"*
Trim Length.	1/4"	1/4"	3/8"	1/2"	1/4"	3/8"	3/8"	1/4"	1/4"	1/4"
Ferrule Diameter	5/32"	3/16"	3/16"	3/16"	3/16"	1/4"	1/4"	3/16"	3/16"	3/16"
Item#	**110-8640**	**110-8600**	**110-8603**	**110-8605**	**110-8500**	**110-8610**	**110-8510**	**110-8590**	**111-8590**	**111-8591**
DOZEN 1-11	**$14.75**	**8.65**	**9.70**	**9.95**	**26.30**	**24.30**	**29.80**	**9.35**	**10.95**	**39.70**
DOZEN 12+	**$12.29**	**7.21**	**8.08**	**8.29**	**21.92**	**20.25**	**24.83**	**7.79**	**9.12**	**33.08**

Shown actual size

Style, Bristle Type	849, Soft	849P, Soft	862, Hard	862P, Hard	862P, Nylon	862 1/2, Hard	862 3/4, Hard	852, Soft	852P, Soft	962, Hard
Shank	1/8"	1/8"	1/8"*	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"*
Trim Length.	1/4"	1/4"	3/8"	3/8"	3/8"	1/2"	3/4"	3/8"	3/8"	9/16"
Ferrule Diameter	3/16"	3/16"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	5/16"
Item#	**110-8490**	**111-8490**	**110-8620**	**111-8620**	**111-8621**	**110-8625**	**110-8627**	**110-8520**	**111-8520**	**110-9620**
DOZEN 1-11	**$14.25**	**21.90**	**25.85**	**16.70**	**53.00**	**18.45**	**24.90**	**29.80**	**26.20**	**22.95**
DOZEN 12+	**$11.87**	**18.25**	**21.54**	**13.92**	**44.16**	**15.37**	**20.75**	**24.83**	**21.83**	**19.12**

SUPRA® "ME" Wire End Brushes

Shown actual size

Style, Bristle Type	870, Brass	880, Steel	869, Brass	879*, Steel	879, Stainless	872, Brass	882, Steel	882, Stainless	972, Brass	982, Steel
Shank	3/32"	3/32"	1/8"	1/8"	1/8"	1/8"*	1/8"*	1/8"	1/8"	1/8"
Wire Diameter	.003"	.003"	.003"	.003"	.003"	.005"	.005"	.005"	.005"	.005"
Trim Length.	1/4"	1/4"	1/4"	1/4"	1/4"	7/16"	7/16"	7/16"	9/16"	9/16"
Ferrule Diameter	3/16"	3/16"	3/16"	3/16"	3/16"	1/4"	1/4"	1/4"	5/16"	5/16"
Item#	**110-8700**	**110-8800**	**110-8690**	**110-8790**	**110-8795**	**110-8720**	**110-8820**	**110-8823**	**110-9720**	**110-9820**
DOZEN 1-11	**$16.85**	**15.80**	**16.85**	**16.90**	**34.65**	**42.90**	**40.35**	**52.95**	**44.50**	**46.75**
DOZEN 12+	**$14.04**	**13.17**	**14.04**	**14.08**	**28.87**	**35.75**	**33.62**	**44.12**	**37.08**	**38.96**

**Styles also available on 3mm shanks*

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SUPRA® "MK"® Bristle Wheel Brushes

Made in the USA

The World's Best Polishing Brushes!

Our most popular unmounted wheel brushes. Feature solid-ring construction for great durability. Contain soft white goat hair bristles, double thick, ideal for applying rouge and compounds. Designed to run true. Mount on our unbreakable SUPRA "MK" Plastic Spindles (see below) in seconds, helping speed up production. Can also be mounted on mandrels #20 and #22 (see p. 460 for mandrel specifications). Have brass hubs with 1/8" arbor holes. Maximum operating speed: 15,000rpm. Made in USA.

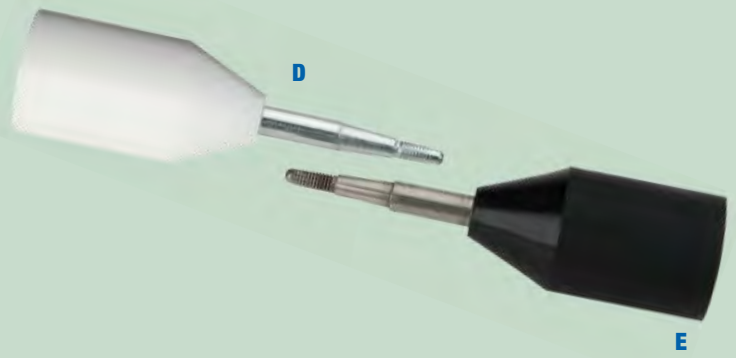
A-C SUPRA® "MK"® Bristle Wheel Brushes – 1/8" Arbor Hole

	Bristle Type	Trim Length	Wheel Dia.	Item#	DOZEN Prices 1-11	12-35	36-71	72+
A.	Hard	1/8"	5/8"	113-0100	$5.95	$4.96	$4.70	$4.46
	Medium	1/8"	5/8"	113-0150	5.95	4.96	4.70	4.46
	Soft	1/8"	5/8"	113-0250	6.80	5.67	5.37	5.10
B.	Hard	3/16"	3/4"	113-0400	5.95	4.96	4.70	4.46
	Medium	3/16"	3/4"	113-0500	5.95	4.96	4.70	4.46
	Soft	3/16"	3/4"	113-0600	6.15	5.12	4.86	4.61
C.	Hard	1/4"	1"	113-0800	6.90	5.75	5.45	5.18
	Medium	1/4"	1"	113-0850	6.90	5.75	5.45	5.18
	Soft	1/4"	1"	113-0950	7.95	6.62	6.28	5.96

D, E Plastic Spindles for SUPRA® "MK"® Wheel Brushes

Threaded steel mandrels mounted in hard plastic spindle bases. Accommodate all SUPRA "MK" Brushes. Fit on tapered spindles. Allow easy mounting of brushes—require only slight pressure and a quarter-turn. Choose for right or left motor shaft.

Description	Item#	Each
D. White Spindle for Right Shaft	840-4950	$10.30
E. Black Spindle for Left Shaft	840-4900	10.30



EL-192 Wheel Brush

Aluminum Center – 1/4" Arbor Hole

An absolutely unique and extremely popular brush used in many industries. Made of black stiff horsehair (originally 9" long) with bristles converging, securely mounted to a steel hub. The aluminum center measures 1/4" diameter and the EL-192 can be used with a mandrel or with a tapered spindle. This brush is preferred by jewelers, mold polishers, sculptors and metal working factories. Maximum operating speed: 3,450rpm. Made in USA.

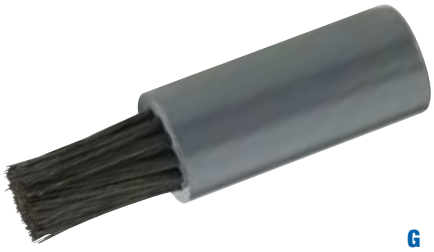
F. Wheel Brush, EL-192

Style	Bristle Type	Trim Length	Wheel Dia.	Rows	Item#	EACH Prices 1-11	12-143	144+
EL-192	Hard Horsehair	9/16"	2"	2	114-5192	$9.10	$7.58	$6.37

G. Bristle End Brushes

Small diameter brushes made of hard Chungking bristles. Use with or without polishing compounds to clean or polish. All have 3/16" arbor holes. Use on tapered spindles. Maximum operating speed: 3,500rpm. Made in USA.

	Bristle Type	Trim Length	Knots	Item#	EACH Prices 1-11	12+
	Hard	7/8"	7	115-3007	$3.60	$3.06
	Hard	7/8"	10	115-3010	4.95	4.21
G.	Hard	1 1/4"	12	115-3012	5.40	4.59



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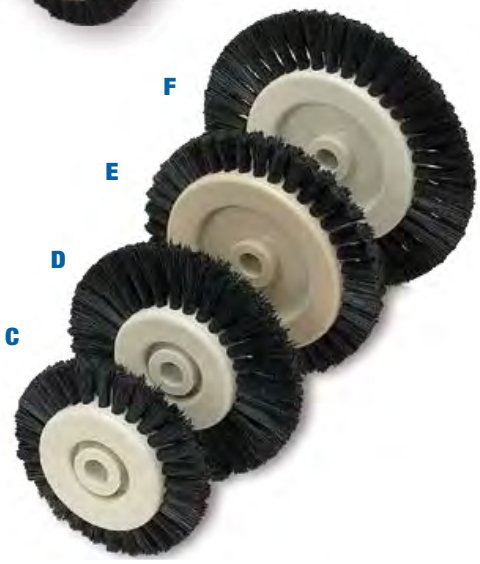
Cocker-Weber Brushes

The Cocker-Weber company has been manufacturing brushes in the United States for over 100 years. They are the world's leader in quality and value, unmatched! The hard wood hubs are cured and resist breaking resulting in long life and strong bristle retention. The plastic unbreakable hubs are more narrow and impervious to water or other liquids.

Made in the USA



A. Superior Quality Wood Hub Wheel Brushes

Our premium, highest quality wood hub brushes are clearly superior to all others. They are made with the very best hard Chungking (animal hair) bristles securely mounted in hardwood hubs. Those with two or more rows of bristles are the converging type for faster action. All have ¼" arbor holes. Recommended for use on tapered spindles. Maximum operating speed: 10,000 RPM. Made in USA.

Hub Dia.	Style	Type	Trim Length	Rows of Bristles	Overall Dia.	Item#	EACH Prices 1-11	12-71	72-143	144+
1¼"	53	5A	⅝"	1	2½"	**115-1530**	**$1.50**	**$1.20**	**$1.13**	**$1.05**
1¼"	54SC	6C	⅜"	2	2"	**115-1540**	**1.90**	**1.52**	**1.43**	**1.33**
1¼"	55	6A	⅝"	2	2½"	**115-1550**	**2.00**	**1.60**	**1.50**	**1.40**
1¼"	56	7A	⅝"	3	2½"	**115-1560**	**2.45**	**1.96**	**1.84**	**1.72**
1¼"	57	8A	⅝"	4	2½"	**115-1570**	**3.45**	**2.76**	**2.59**	**2.42**
1½"	62	10	¾"	2	3"	**115-1620**	**2.50**	**2.00**	**1.88**	**1.75**
1½"	63	11	¾"	3	3"	**115-1630**	**3.15**	**2.52**	**2.36**	**2.21**
1½"	64	12	¾"	4	3"	**115-1640**	**4.60**	**3.68**	**3.45**	**3.22**
1⅞"	70SC	1C	⅜"	1	2⅝"	**115-1700**	**1.80**	**1.44**	**1.35**	**1.26**
1⅞"	71	1A	⅝"	1	3⅛"	**115-1710**	**1.80**	**1.44**	**1.35**	**1.26**
1⅞"	72SC	2C	⅜"	2	2⅝"	**115-1720**	**2.45**	**1.96**	**1.84**	**1.72**
1⅞"	73	2A	⅝"	2	3⅛"	**115-1730**	**2.35**	**1.88**	**1.76**	**1.65**
1⅞"	73SC	2B	½"	2	2⅞"	**115-1732**	**2.40**	**1.92**	**1.80**	**1.68**

SC stands for short cut bristles, which give more aggressive brushing action.

B. Standard Quality Wood Hub Wheel Brushes

The Economy version of Cocker-Weber brushes are marked with a black imprint. They are made with very good quality Chungking bristles, securely mounted in the same high quality wood hubs and are almost as stiff as our Premium type. Those with two rows of bristles are the converging type for faster action. All have ¼" arbor holes and are recommended for tapered spindles. Maximum operating speed: 10,000 RPM. Made in USA.

Hub Dia.	Style	Type	Trim Length	Rows of Bristles	Overall Dia.	Item#	(12pc) 12-60	EACH Prices 72-132	144+
1¼"	54E SC	6C	⅜"	2	2"	**115-1800**	**$1.40**	**$1.26**	**$1.12**
1⅞"	70E SC	1C	⅜"	1	2⅝"	**115-1805**	**1.15**	**1.04**	**0.92**
1⅞"	72E SC	2C	⅜"	2	2⅝"	**115-1810**	**1.55**	**1.40**	**1.24**
1⅞"	73E	2A	⅝"	2	3⅛"	**115-1815**	**1.60**	**1.44**	**1.28**
1⅞"	73E SC	2B	½"	2	3"	**115-1820**	**1.60**	**1.44**	**1.28**

SC stands for short cut bristles, which give more aggressive brushing action.
(12pc) *Twelve-piece minimum; please order in multiples of 12.*

C-F Plastic Hub Superior Quality Wheel Brushes

Consist of extra-hard, premium quality Chungking bristles and are made by Cocker-Weber. Mounted on narrow, unbreakable plastic hubs. Bristles converge especially well eliminating the need for burn-in. All have ½" thick hubs with ¼" arbor holes and recommended for use with tapered spindles. Maximum operating speed: 10,000 RPM.

	Hub Dia.	Style	Type	Trim Length	Rows of Bristles	Overall Dia.	Item#	EACH Prices 1-11	12-71	72-143	144+
C.	1¼"	54P SC	6PC	⅜"	2	2"	**115-1541**	**$2.65**	**$2.12**	**$1.99**	**$1.86**
D.	1¼"	55P	6PA	⅝"	2	2½"	**115-1551**	**2.70**	**2.16**	**2.03**	**1.89**
E.	2"	72P SC	2PC	⅜"	2	2⅝"	**115-1721**	**3.05**	**2.44**	**2.29**	**2.14**
F.	2"	73P	2PA	⅝"	2	3⅛"	**115-1731**	**3.05**	**2.44**	**2.29**	**2.14**

SC stands for short cut bristles, which give more aggressive brushing action.

Safety Recommendations

For safe operation of motor-driven brushes, comply with the Safety Standards of the Industrial Division of the American Brush Manufacturers Association and of the American National Standards Institute: ANSI B165.1-1991, "Power-Driven Brushing Tools—Safety Requirements."

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A-C Wire Scratch Wheel Brushes – .003" diameter crimped wire

This superior construction packs much more wire into each brush, which gives faster action, and longer life when compared to wood hub 'tufted' brushes. Synthetic polymer centers (2203B has an aluminum center), ensure secure retention on tapered spindles. Ideal for cleaning, light deburring and imparting a fine satin finish on nonferrous metals such as gold and silver. Use brass on yellow metals, others on white metals. All have 1/4" arbor holes. Maximum operating speed: 6,000rpm (4,000rpm for 4403B). Made in USA.

	Style	.003" Wire Type	Trim Length	Wheel Dia.	Rows	Item#	EACH Prices 1-11	12+
	2203B	Brass	3/4"	2"	2	**116-2203**	**$19.90**	**$16.92**
A.	3203B	Brass	1"	3"	2	**116-3203**	**20.95**	**17.81**
B.	3203S	Steel	1"	3"	2	**117-3203**	**19.50**	**16.58**
C.	3203NS	Nickel Silver	1"	3"	2	**118-3203**	**20.00**	**17.00**
	3403B	Brass	1"	3"	4	**116-3403**	**45.85**	**38.97**
	4403B	Brass	1 1/4"	4"	4	**116-4403**	**49.50**	**42.08**

D. Wood Hub Wire Scratch Wheel Brushes

.003" diameter light crimped brass wire

Cocker-Weber, the world's leader in quality and value now offers wood hub tufted wire scratch wheel brushes. All have 1/4" arbor holes. Maximum operating speed: 1,750 rpm. Made in USA.

	Hub Dia.	Style	Type	Trim Length	Rows of Bristles	Overall Dia.	Item#	EACH Prices 1-11	12+
D.	1 1/2"	B33	Brass	3/4"	3	3"	**115-3303**	**$13.65**	**$11.60**
	1 1/2"	B43	Brass	1 1/4"	3	4"	**115-4303**	**14.95**	**12.71**
	1 1/2"	B44	Brass	1 1/4"	4	4"	**115-4403**	**16.95**	**14.41**

E, F Wheel Brushes – Plastic Center, 1 7/8" Diameter

The black chungking bristle version is very stiff and converges to a 1/8" face. The white goat hair brush is very soft with a polishing face of 1/4". Maximum operating speed: 3,450rpm. Made in Germany.

	Style	Bristle Type	Trim Length	Wheel Dia.	Arbor	Item#	EACH Prices 1-11	12-143	144+
E.	48CK	Hard	1/2"	1 7/8"	1/4" Plastic	**114-5195**	**$2.48**	**$2.23**	**$1.74**
F.	48SG	Soft Hair	1/2"	1 7/8"	1/4" Plastic	**114-5197**	**2.80**	**2.52**	**1.96**

G, H Mounted Wire Wheel Brushes – 3/32" Shank

Made of .003" diameter crimped wire. For cleaning and brush finishing with flex shafts. Use brass for yellow metals, steel for white metals. Both have 3/32" shanks. Maximum operating speed: 22,000rpm (recommended 17,000rpm).

	Wire Type	Trim Length	Wheel Dia.	Item#	DOZEN Prices 1-11	12+
G.	Steel	3/16"	3/4"	**113-1000**	**$17.85**	**$14.87**
H.	Brass	3/16"	3/4"	**113-1050**	**17.85**	**14.87**

I, J Double Row Mounted Wheel Brushes – 3/32" Shank

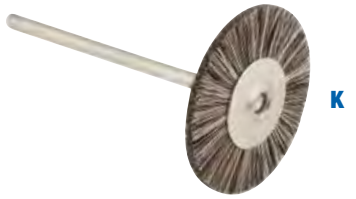
Both are made of white goat hair bristles, double thick, ideal for applying rouge and compounds. Measure approximately 7/8" diameter x 1/4" thick, with 3/32" shanks. Available with very soft bristles converging to approximately 3/32" for concentrated action or soft straight bristles creating a wider contact area. Maximum operating speed: 8,000rpm. Made in Germany.

	Bristle Type	Trim Length	Wheel Dia.	Item#	EACH Prices 1-5	6+
I.	Very Soft, Converging	1/4"	7/8"	**113-1515**	**$4.80**	**$4.32**
J.	Soft, Straight	1/4"	7/8"	**113-1520**	**5.99**	**5.39**

K. Single Row Mounted Wheel Brush – 3/32" Shank

Features a single row of natural soft bristles mounted securely in a copperplated steel hub. Great for cleaning and polishing tight areas. Measures 1" dia. with 3/32" shank. Maximum operating speed: 25,000rpm. Imported.

Bristle Type	Trim Length	Wheel Dia.	Item#	DOZEN Prices 1-11	12+
Soft	1/4"	1"	**113-1526**	**$4.95**	**$4.46**



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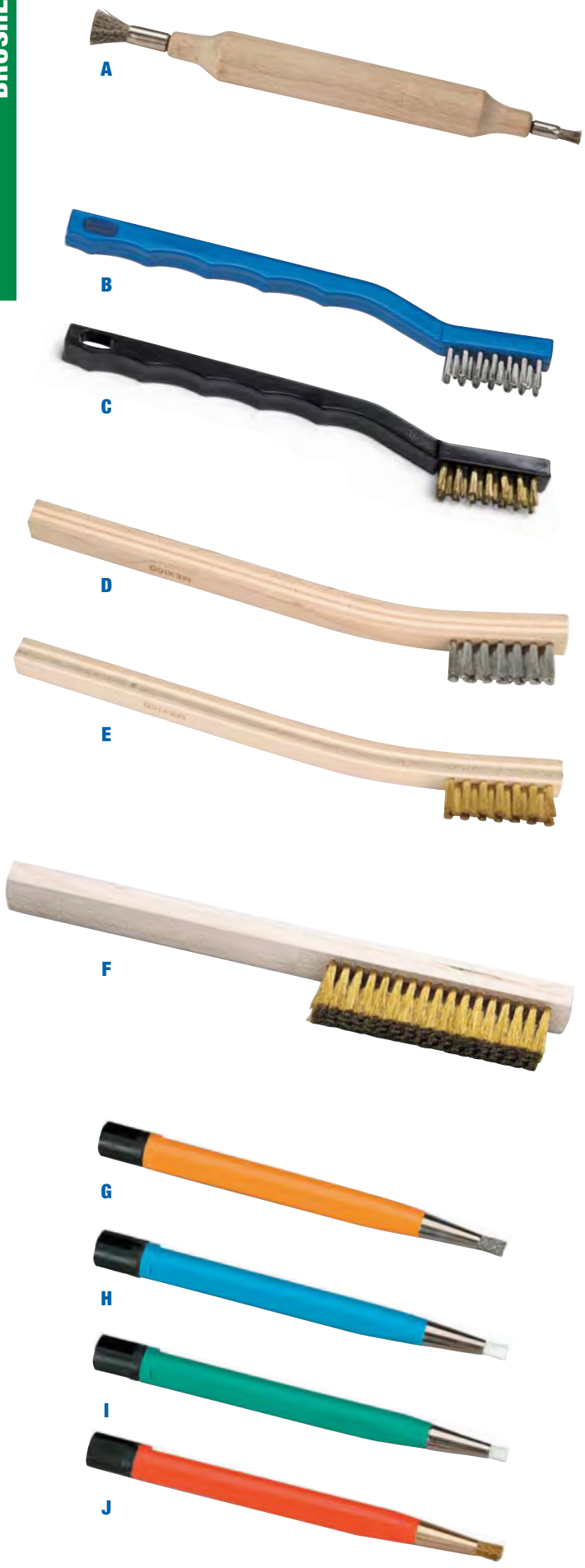

A. Double-Ended Brush - Stainless Steel Wire

Great for removing EDM carbon buildup. One end has .005" dia. Straight stainless steel bristles, 1/4" trim, 3/16" dia. The other end has .003" dia. crimped stainless steel bristles, 7/16" trim, 1/4" dia. Wooden handle has finger grip at both ends. Measures 6" overall length.

Handle Material	Length	Style	Item#	EACH Prices 1-11	12+
Wood	6"	7982	**114-5310**	**$10.25**	**$8.54**

B, C Wire Brushes – Plastic Handles

Use on metals for intermediate finishing, surface preparation or final finishing. Ideal for cleaning bur teeth and for scrubbing and removing carbon buildup found in EDM cavities. Can also be used for texturing. Available with .006" dia. x 7/16"L stainless steel or .004" dia. x 7/16"L brass wire bristles. Both have plastic handles. Measure 7 1/4" long.

Description	Face Size (L x W)	Item#	EACH Prices 1-11	12+
B. Stainless Steel	1 3/8" x 1/4"	**114-5300**	**$2.10**	**$1.75**
C. Brass	1 3/8" x 1/4"	**114-5305**	**3.25**	**2.71**

D, E Hand-Laced Scratch Brushes – Wooden Handles

Feature three rows of soft, flexible 7/16"L x .003" dia. bristles. Ideal for producing a satin finish. Hand-laced with stainless steel wire to retain maximum bristles and allow handle expansion and contraction when exposed to wetness. Measure 7 3/4" long.

Description	Face Size (L x W)	Item#	EACH Prices 1-11	12+
D. Stainless Steel	1 3/8" x 1/4"	**114-5320**	**$8.65**	**$7.79**
E. Brass	1 3/8" x 1/4"	**114-5315**	**6.25**	**5.63**

F. Brass Scratch Brush – Wooden Handle

Select between four rows of 3/4"L x .004" dia. or 1"L x .003" dia. anchored brass wire. Produce a fine satin finish on soft yellow metals. Measure approx. 8" long.

Description	Face Size (L x W)	Item#	EACH Prices 1-11	12+
Brass .004"	3 1/4" x 5/8"	**118-3400**	**$9.70**	**$8.25**
Brass .003"	3 1/2" x 5/8"	**118-3403**	**11.50**	**9.78**

G-J Scratch Brush Pens

Excellent for removing rust or corrosion and for reaching into narrow areas. Handy and comfortable to hold. Available in four color-coded types with metal ferrules for durability: steel, nylon, fiberglass and brass. Measure 4 1/2" overall length. Made in Germany.

Description	Color	Item#	EACH Prices 1-2	3+
G. Stainless Steel Pen	Orange	**115-2310**	**$8.85**	**$8.41**
H. Nylon Pen	Blue	**115-2312**	**6.85**	**6.51**
I. Fiberglass Pen	Green	**115-2314**	**6.95**	**6.60**
J. Brass Pen	Red	**115-2316**	**7.85**	**7.46**

Description	Length	Item#	PKG. of 6 1-2	3+
Stainless Steel Refills	1 1/4"	115-2311	$6.65	$6.32
Nylon Refills	1 1/4"	115-2313	6.85	6.51
Fiberglass Refills	1 1/4"	115-2315	4.85	4.61
Brass Refills	1 1/4"	115-2317	4.95	4.70

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A. Bench Duster – Wooden Handle

Contains four rows of 1½" long medium natural bristles. Ideal for cleaning dust from surfaces. Measures 9¾" long.

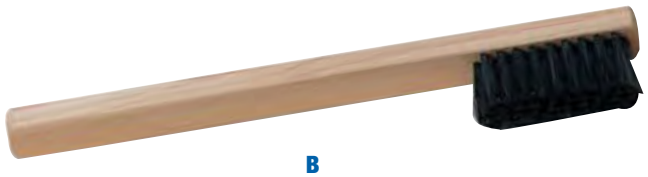
Description	Face Size (L x W)	Item#	EACH Prices 1-2	3-11	12+
Bench Duster	4" x ¾"	**115-2260**	**$10.25**	**$9.23**	**$8.20**

A

B. Washout Brushes – Wooden Handles

Have four rows of ¾" long natural bristles. Short-Face has extra-stiff bristles, and Regular has stiff bristles. Measure 8¼" long.

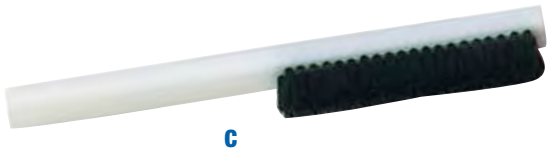
	Description	Face Size (L x W)	Item#	EACH Prices 1-2	3-11	12+
B.	Short-Face	2" x ½"	**115-2100**	**$5.75**	**$5.18**	**$4.60**
	Regular	3½" x ¾"	**115-2200**	**6.05**	**5.45**	**4.84**


B

C. Washout Brushes – Durable Plastic Handles

Have extra-stiff natural bristles in durable plastic handles. The 3-Row Brush has ⅝" long bristles, and the 4-Row Brush has ¾" long bristles. Measure 7¼" long.

	Description	Face Size (L x W)	Item#	EACH Prices 1-2	3-11	12+
C.	3-Row	3½" x ½"	**115-2060**	**$5.85**	**$5.27**	**$4.68**
	4-Row	3¼" x ¾"	**115-2070**	**5.95**	**5.36**	**4.76**


C

D. Small Washout Brush – Plastic Handle

Has four rows of ½" long extra-stiff nylon bristles in an angled handle. Ideal for cleaning small areas. Fits inside most rings. Measures 6⅝" long.

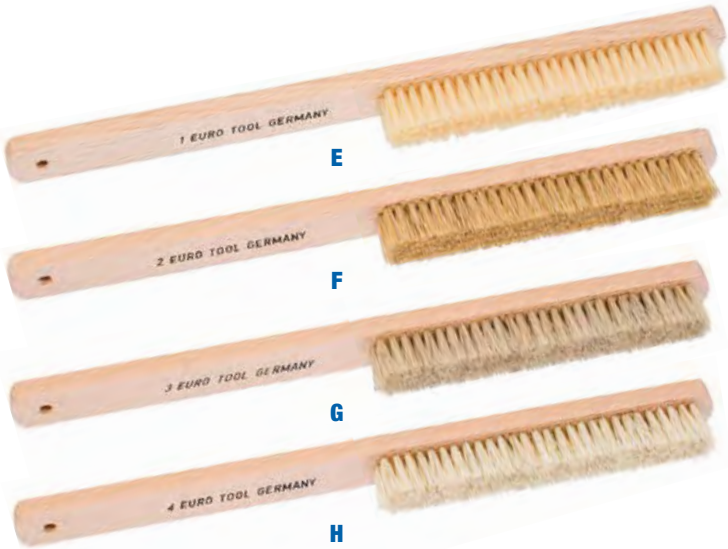
Description	Face Size (L x W)	Item#	EACH Prices 1-2	3-11	12+
Small Washout	1¾" x ½"	**115-2250**	**$2.75**	**$2.48**	**$2.20**

D

E-H Watchmaker's Brush – Wooden Handle

Four uniform rows of ⅝" soft white natural bristles locked in a wood handle are great for cleaning fine jewelry, PC boards, cleaning dusting and other general purpose work. Simply the most popular washout brush available. Measure 10" overall length. Made in Germany.

	Description	Face Size (L x W)	Item#	EACH Prices 1-2	3-11	12+
E.	Hard	4½" x ½"	**115-2336**	**$5.60**	**$5.04**	**$4.48**
F.	Medium	4½" x ½"	**115-2338**	**5.60**	**5.04**	**4.48**
G.	Soft	4½" x ½"	**115-2340**	**5.95**	**5.36**	**4.76**
H.	Extra Soft	4½" x ½"	**115-2342**	**5.95**	**5.36**	**4.76**



E
F
G
H

I. Hand Brush with Enclosed Handle

Features stiff nylon bristles set in a durable block with enclosed handle for keeping skin and fingernails clean. Ideal for removing investment and more. Measures 4"L x 1½"W.

Description	Item#	EACH Prices 1-2	3+
Hand Brush with Enclosed Handle	**115-2255**	**$3.50**	**$3.15**

I

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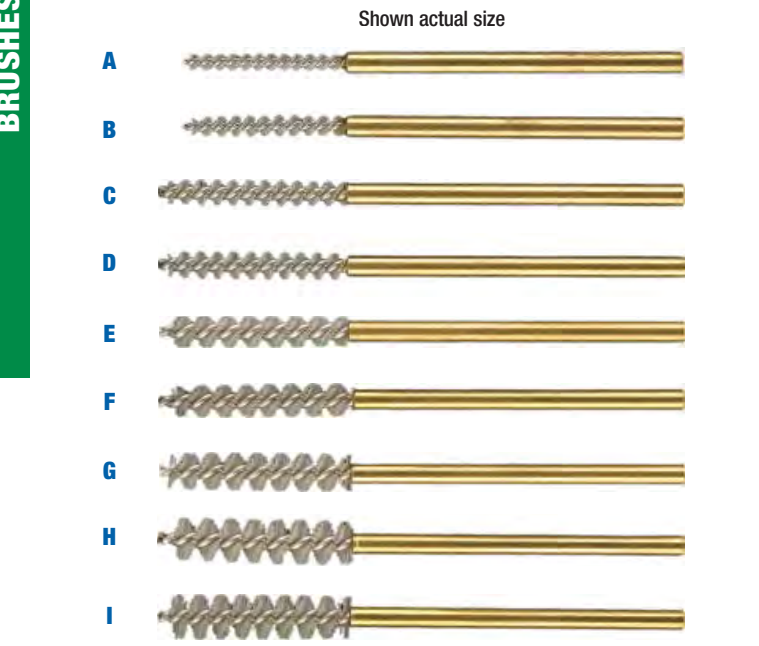
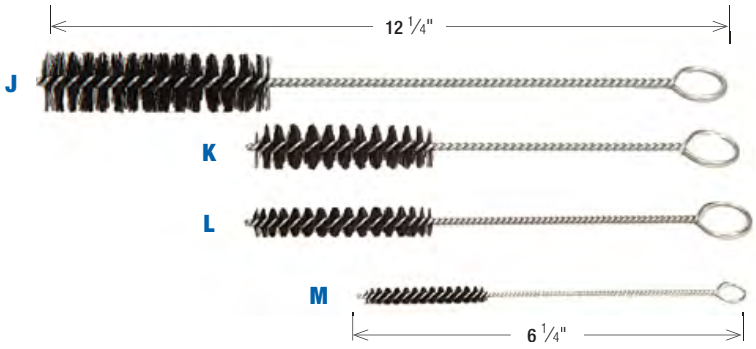


A-I Micro Spiral Brushes – Abrasive Bristle

Nylon bristle with aluminum oxide abrasive. This new brush concept is a perfect tool for cleaning or light bur removal in through holes or on hole edges. The 0.3mm diameter nylon bristle contains 500 grit AlO abrasive grain. Easy to hold and use by hand or can be carefully used in a rotary handpiece if run no faster than 1,500rpm* (3mm shank diameter). Each brush's wire mandrel top (except MSB 2.2 and MSB 2.7) is coated with epoxy resin to protect the work surface from damage.

	Brush Size (Dia. x L)	Overall Length	Shank Dia.	Item#	EACH Price
A.	2.2 x 20mm	65	3mm	**115-2288**	**$16.70**
B.	2.7 x 20mm	65	3mm	**115-2289**	**16.70**
C.	3.3 x 25mm	70	3mm	**115-2290**	**16.70**
D.	3.8 x 25mm	70	3mm	**115-2291**	**16.70**
E.	4.3 x 25mm	70	3mm	**115-2292**	**16.70**
F.	4.8 x 25mm	70	3mm	**115-2293**	**16.70**
G.	5.3 x 25mm	70	3mm	**115-2294**	**16.70**
H.	5.8 x 25mm	70	3mm	**115-2295**	**16.70**
I.	6.3 x 25mm	70	3mm	**115-2296**	**16.70**

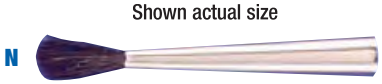
**1,500rpm max when used in a rotary handpiece.*
Do not operate until fully inserted into the hole to be processed.



J-M Nylon Tube Brushes

Single-stem, single-spiral nylon tube brushes for cleaning inside rings and grooves. Each has loop handle for sure grip.

	Brush Size (Dia. x L)	Overall Length	Item#	EACH Prices 1-2	3-11	12+
J.	1" x 4"	12 1/4"	**115-2285**	**$3.60**	**$3.24**	**$2.88**
K.	3/4" x 3"	8 1/2"	**115-2280**	**2.15**	**1.94**	**1.72**
L.	1/2" x 3"	8 1/2"	**115-2275**	**2.15**	**1.94**	**1.72**
M.	1/4" x 2"	6 1/4"	**115-2270**	**1.75**	**1.58**	**1.40**

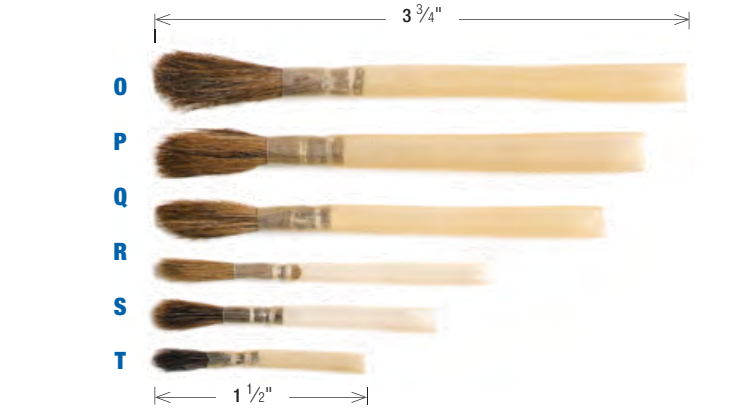


N. Econo Flux Brush

Disposable brush with tin ferrule. Use for fluxes and other liquids.

Description	Overall Length	Item#	EACH Prices (3pc) 3-9	12+
Econo Flux Brush	1 3/4"	**115-0100**	**$0.50**	**$0.43**

(3pc) Three-piece minimum; please order in multiples of three.

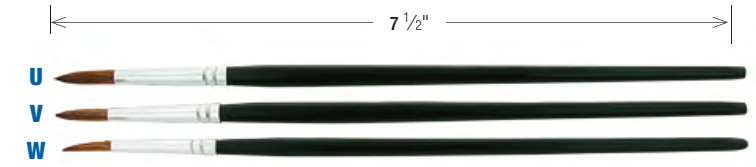


O-T Quill Flux Brushes/Borax Brushes

Inexpensive disposable brushes made of camel hair mounted in hollow quill handles. Use for applying fluxes and other liquids.

	Style	Overall Length	Item#	EACH Prices (3pc) 3-9	12+
O.	1	3 3/4"	**115-0010**	**$1.50**	**$1.28**
P.	2	3 1/2"	**115-0020**	**1.50**	**1.28**
Q.	3	3"	**115-0030**	**1.50**	**1.28**
R.	5	2 1/4"	**115-0050**	**1.18**	**1.00**
S.	7	1 3/4"	**115-0070**	**1.18**	**1.00**
T.	9	1 1/2"	**115-0090**	**1.18**	**1.00**

(3pc) Three-piece minimum; please order in multiples of three.



U-W Wood Flux Brushes

Well-constructed, durable camel hair brushes with wooden handles.

	Description	Overall Length	Item#	EACH Prices 1-11	12+
U.	Large Brush	7 1/2"	**115-0400**	**$2.95**	**$2.51**
V.	Medium Brush	7 1/2"	**115-0500**	**2.95**	**2.51**
W.	Small Brush	7 1/2"	**115-0600**	**2.20**	**1.87**

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Texturing Wheels

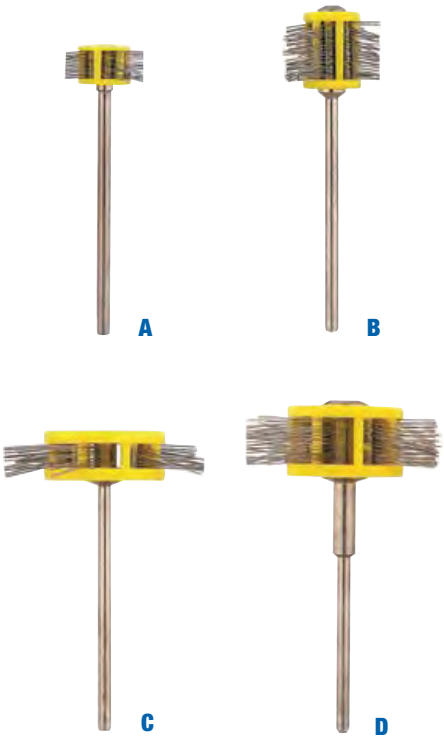
Whether you want a fine satin finish, a coarse textured surface or something in between, Texturing Wheels have it covered. Choose from a wide variety of sizes and wire diameters to get the exact finish you're looking for. They produce a look similar to a sandblasted finish without the gritty mess or chore of changing sand in the blaster. You don't even have to get up from the bench. Mounted Texturing Wheels (3/32" shanks) can be used on a standard flex shaft handpiece. Unmounted Texturing Wheels can be used on a tapered spindle on your polishing motor. Consist of steel wires firmly attached to plastic hubs. Color-coded for easy selection. Benchtop dust collector or gold saving box strongly recommended to collect gold for refining. Safety goggles or face shield and finger protection required.

A-D Mounted Texturing Wheels – 3/32" Shank

Wheels in four different sizes and a variety of wire diameters for use on your flex shaft. Use with safety goggles (face shield and finger guards also recommended). Recommended operating speed: 5,000rpm.

	Dia.* x H (mm)	Wire Dia. (mm)	Finish	Color	Item#	EACH Prices 1-2	3+
A.	13 x 5	0.2	X-Fine	Yellow	**113-1052**	**$34.00**	**$32.30**
		0.3	Fine	Red	**113-1053**	**34.00**	**32.30**
		0.4	M-Fine	Blue	**113-1054**	**34.00**	**32.30**
		0.5	Medium	Green	**113-1055**	**34.00**	**32.30**
B.	16 x 12	0.2	X-Fine	Yellow	**113-1062**	**32.00**	**30.40**
		0.3	Fine	Red	**113-1063**	**32.00**	**30.40**
		0.45	M-Fine	Blue	**113-1064**	**32.00**	**30.40**
C.	35 x 8	0.2	X-Fine	Yellow	**113-1072**	**22.80**	**21.66**
		0.3	Fine	Red	**113-1073**	**22.80**	**21.66**
		0.6	Medium	Green	**113-1076**	**22.80**	**21.66**
		0.7	Coarse	Gray	**113-1077**	**22.80**	**21.66**
		0.8	X-Coarse	Black	**113-1078**	**22.80**	**21.66**
D.	40 x 12	0.2	X-Fine	Yellow	**113-1082**	**24.70**	**23.47**
		0.3	Fine	Red	**113-1083**	**24.70**	**23.47**
		0.45	M-Fine	Blue	**113-1084**	**24.70**	**23.47**
		0.6	Medium	Green	**113-1086**	**24.70**	**23.47**
		0.7	Coarse	Gray	**113-1087**	**24.70**	**23.47**
		0.8	X-Coarse	Black	**113-1088**	**24.70**	**23.47**

**Overall diameter including hub and wire bristles.*



E. Texturing Wheel Set with Stand

A convenient set of our six most popular Texturing Wheels. Includes all 40 x 12mm mounted wheels listed above. Comes complete with plastic stand that keeps wheels organized and at your fingertips. Use with safety goggles (face shield and finger guards also recommended).

Description	Item#	Each
Texturing Wheel Set with Stand	**113-1099**	**$149.95**

F. Unmounted Texturing Wheels

Five different 4" diameter wheels for use with a tapered spindle on your polishing motor. Use with safety goggles (face shield and finger guards also recommended). Maximum operating speed: 5,000rpm.

	Dia.* x H (mm)	Wire Dia. (mm)	Finish	Color	Item#	EACH Prices 1-2	3+
F.	100 x 25	0.2	X-Fine	Yellow	**113-1092**	**$42.55**	**$40.42**
		0.3	Fine	Red	**113-1093**	**42.55**	**40.42**
		0.45	M-Fine	Blue	**113-1094**	**39.10**	**37.15**
		0.6	Medium	Green	**113-1096**	**39.10**	**37.15**
		0.6	Coarse	Gray	**113-1097**	**39.10**	**37.15**

**Overall diameter including hub and wire bristles.*

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Gesswein® Buff Selection Guide

Muslin, flannel, felt, cotton and chamois create buffs with different polishing characteristics. Used with compounds, buffs can handle everything from removing deep scratches to imparting a high luster. Reserve just one buff for each compound to avoid mixtures, which can produce unpredictable finishes. Made in USA except where indicated. When selecting buffs, please consider the following information:

Stitched Buffs: Joined by several rows of stitching for firmer action. Use with cutting or polishing compounds.

Loose Buffs: Joined only at arbor hole for softer action and following contours. Use with rouge for final polishing.

Razor-Edge Buffs: Perfect for reaching into tight areas.

Chemical Treatments: Improve stiffness and provide better compound retention. Use with cutting compounds for fast action.

Combed Edges: Hold compounds well. Require no break-in period.

Centers: Choose from leather reinforced or shellac-hardened pinhole and lead for use on tapered spindles. Also available; 3/8" arbor holes for use on 3/8" arbor shafts.

Made in the USA

A

B

C

D

A. Stitched White Muslin Buffs – Leather Pinhole Center

Made of fine-weave muslin with combed edges and leather centers. For cutting compounds such as grey star and Tripoli. For polishing of hard metals such as platinum. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
3" x 40	3	80/80	**140-2300**	**$2.27**	**$2.04**	**$1.82**	**$1.59**
4" x 40	3	80/80	**140-2400**	**3.48**	**3.13**	**2.78**	**2.44**
4" x 50	3	80/80	**140-2450**	**3.95**	**3.56**	**3.16**	**2.77**
4" x 60	3	80/80	**140-2455**	**4.85**	**4.37**	**3.88**	**3.40**
5" x 45	3	80/80	**140-2500**	**5.10**	**4.59**	**4.08**	**3.57**
5" x 50	3	80/80	**140-2550**	**4.49**	**4.04**	**3.59**	**3.14**
6" x 50	4	80/80	**140-2650**	**7.20**	**6.48**	**5.76**	**5.04**
6" x 60	4	80/80	**140-2660**	**7.75**	**6.98**	**6.20**	**5.43**
7" x 50	4	80/80	**140-2700**	**10.29**	**9.26**	**8.23**	**7.20**
8" x 55	4	80/80	**140-2800**	**14.25**	**12.83**	**11.40**	**9.98**

B. Stitched Coarse White Muslin Buffs – Shellac Pinhole Center

Made of coarse-weave muslin with uncombed edges and shellac-hardened centers. For cutting compounds such as grey star and Tripoli. For polishing of hard metals such as platinum. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
5" x 45	3	60/60	**140-2010**	**$3.35**	**$3.02**	**$2.68**	**$2.35**
6" x 50	4	60/60	**140-2020**	**5.00**	**4.50**	**4.00**	**3.50**

C. Loose White Muslin Buffs – Leather Pinhole Center

Made of fine-weave muslin with combed edges and leather centers. For polishing compounds such as rouge. Made in USA.

Dia. x Ply	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
3" x 40	80/80	**140-4300**	**$2.62**	**$2.36**	**$2.10**	**$1.83**
4" x 40	80/80	**140-4400**	**3.89**	**3.50**	**3.11**	**2.72**
4" x 50	80/80	**140-4350**	**3.68**	**3.31**	**2.94**	**2.58**
5" x 45	80/80	**140-4500**	**4.30**	**3.87**	**3.44**	**3.01**
6" x 50	80/80	**140-4650**	**6.15**	**5.54**	**4.92**	**4.31**
6" x 60	80/80	**140-4660**	**7.45**	**6.71**	**5.96**	**5.22**
7" x 50	80/80	**140-4700**	**10.70**	**9.63**	**8.56**	**7.49**
8" x 55	80/80	**140-4800**	**12.45**	**11.21**	**9.96**	**8.72**

D. Loose White Muslin Buffs – Lead Center

Made of fine-weave muslin with combed edges and lead centers. A tapered spindle will create threads in the lead, providing a positive seat. For polishing compounds such as rouge. Made in USA.

Dia. x Ply	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4" x 54	80/80	**140-6450**	**$11.50**	**$10.35**	**$9.20**	**$8.05**
5" x 54	80/80	**140-6500**	**13.40**	**12.06**	**10.72**	**9.38**
6" x 54	80/80	**140-6650**	**17.99**	**16.19**	**14.39**	**12.59**
6" x 63	80/80	**140-6560**	**19.00**	**17.10**	**15.20**	**13.30**

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Why Choose Gesswein® Buffs?

What makes our Made in USA buffs better than many competitors can be summarized as follows:

Premium quality 100% cotton carded cloth with 80/80 and 86/80 thread counts (the number of threads per square inch in each direction). The yarn size is 30/30. These consistent thread counts and tight weaves make our buffs more wear-resistant and longer lasting.

Our polymer plastic treated buffs give superior performance to starch treatments used by some others.

When processing we take extra care to relieve the folds and wrinkles inherent in a bolt of cloth and use a die cutter that prevents nicks and ensures cuts are not made from the salvage edge of the cloth. We turn every other ply so that it is offset by at least 45 degrees which prevents premature thread fraying, ensures even and circular wear and improves compound retention. Well turned buffs will outlast unturned buffs by up to 50%.

We regulate tension, stitching, and sewing pattern parameters. Tension is such that when stitches are pulled up, they snap back to the buff. Stitching is kept to 4-6 stitches per inch on the buff, 9-16 on the leather center, and the sewing needle is lifted between each row of stitching to create a truly concentric sewing pattern. All these factors add up to longer lasting buffs.

We inject shellac into the center of each buff making the entire center hard which allows the buffs to be repeatedly taken on and off the spindle without becoming wobbly. Some manufacturers simply dab or stamp shellac onto the center.

For longer life, better cutting and polishing and superior value – use Gesswein Buffs.

A. Loose White Muslin Buffs – 3/8" Arbor Hole

Made of fine-weave muslin with combed edges. Have 3/8" diameter arbor holes for use on 3/8" arbor shafts. Not for use on tapered spindles. Made in USA.

Dia. x Ply	Thread Count	Item#	EACH Prices 1-11	12-35	36-14	144+
3" x 20	80/80	**140-4315**	**$0.88**	**$0.79**	**$0.70**	**$0.62**
4" x 20	80/80	**140-4320**	**1.19**	**1.07**	**0.95**	**0.83**
5" x 20	80/80	**140-4420**	**1.80**	**1.62**	**1.44**	**1.26**
6" x 20	80/80	**140-4520**	**2.32**	**2.09**	**1.86**	**1.62**

B. Razor-Edge White Muslin Buffs – Leather Pinhole Center

Made of fine-weave muslin except for #140-8650, which is made of coarse-weave muslin. Can reach into areas where conventional buffs cannot, such as corners, channels and slots. Stitching provides firm edge and maintains buff shape. Buffs with 86/80 thread count are a bit stiffer and more aggressive than buffs with 80/80 thread count. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
2 1/2"	5	86/80	**140-8250**	**$2.25**	**$2.03**	**$1.80**	**$1.58**
3"	4	86/80	**140-8300**	**2.50**	**2.25**	**2.00**	**1.75**
4"	6	86/80	**140-8400**	**2.96**	**2.66**	**2.37**	**2.07**
5"	8	80/80	**140-8500**	**4.06**	**3.65**	**3.25**	**2.84**
6"	10	80/80	**140-8600**	**4.37**	**3.93**	**3.50**	**3.06**
6"	10	86/80	**140-8650**	**4.58**	**4.12**	**3.66**	**3.21**

C. Stitched Yellow Muslin Buffs – Leather Pinhole Center

Made of chemically treated fine-weave muslin with combed edges and leather centers. Feature a degree of stiffness that serves particularly well for cutting with tripoli. Last two to three times longer than white muslin buffs. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4" x 40	3	86/80	**141-2400**	**$5.05**	**$4.55**	**$4.04**	**$3.54**
4" x 50	3	86/80	**141-8700**	**4.25**	**3.83**	**3.40**	**2.98**
5" x 45	3	86/80	**141-2500**	**5.65**	**5.09**	**4.52**	**3.96**
5" x 50	3	86/80	**141-8710**	**6.82**	**6.14**	**5.46**	**4.77**
6" x 30	4	86/80	**141-8720**	**5.70**	**5.13**	**4.56**	**3.99**
6" x 50	4	86/80	**141-2600**	**8.80**	**7.92**	**7.04**	**6.16**
6" x 60	4	86/80	**141-2650**	**9.95**	**8.96**	**7.96**	**6.97**
7" x 50	4	86/80	**141-8730**	**12.39**	**11.15**	**9.91**	**8.67**

D. Loose Yellow Muslin Buffs – Leather Pinhole Center

Made of the same treated fine-weave muslin with combed edges and leather centers as our stitched yellow muslin buffs, without the stitching. Can be used with rouge. Works very well with cut-and-color compounds. Made in USA.

Dia. x Ply	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4" x 50	86/80	**141-1000**	**$4.30**	**$3.87**	**$3.44**	**$3.01**
5" x 50	86/80	**141-1005**	**6.40**	**5.76**	**5.12**	**4.48**
6" x 50	86/80	**141-1010**	**8.50**	**7.65**	**6.80**	**5.95**

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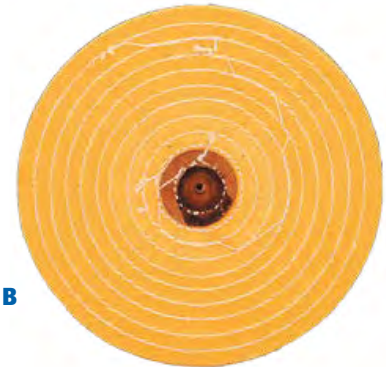
Made in the USA

A

A. Loose Yellow Muslin Buffs – 3/8" Arbor Hole

Made of the same treated fine-weave muslin with combed edges as our other yellow buffs. Have 3/8" diameter arbor holes for use on 3/8" arbor shafts. Not for use on tapered spindles. Made in USA.

Dia. x Ply	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4" x 20	86/80	**141-0995**	**$1.79**	**$1.61**	**$1.43**	**$1.25**
5" x 20	86/80	**141-1002**	**2.12**	**1.91**	**1.70**	**1.48**
6" x 20	86/80	**141-1007**	**3.25**	**2.93**	**2.60**	**2.28**
7" x 20	86/80	**141-1009**	**4.45**	**4.01**	**3.56**	**3.12**

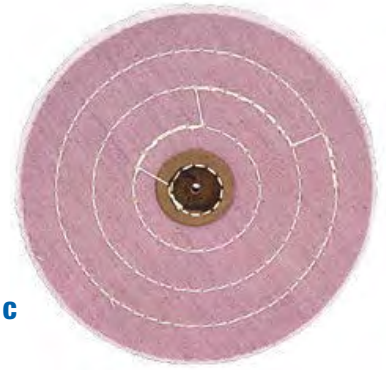


B

B. Razor-Edge Yellow Muslin Buffs – Leather Pinhole Center

Made of the same treated fine-weave muslin with leather centers as our other yellow buffs. Can reach into areas where conventional buffs cannot, such as corners, channels and slots. Stitching provides firm edge and maintains buff shape. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4"	6	86/80	**141-8495**	**$3.29**	**$2.96**	**$2.63**	**$2.30**
5"	8	86/80	**141-8500**	**3.90**	**3.51**	**3.12**	**2.73**
6"	11	86/80	**141-8600**	**5.34**	**4.81**	**4.27**	**3.74**



C

C. Stitched Plum Muslin Buffs – Leather Pinhole Center

Made of chemically treated fine-weave muslin with combed edges and leather centers. Outlast yellow and white buffs by a wide margin. Cut fast and provide ultra-high polish when used with yellow glow or rouge. Retain compound extremely well, producing a brighter finish than other buffs. Impart an amazing finish on soft metals. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4" x 40	3	86/80	**140-6660**	**$4.12**	**$3.71**	**$3.30**	**$2.88**
5" x 45	3	86/80	**140-6661**	**5.63**	**5.07**	**4.50**	**3.94**
6" x 50	4	86/80	**140-6662**	**8.90**	**8.01**	**7.12**	**6.23**

D

D. Loose Plum Muslin Buffs – Leather Pinhole Center

Made of the same treated fine-weave muslin with combed edges and leather centers as our stitched plum muslin buffs, without the stitching. Made in USA.

Dia. x Ply	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4" x 40	86/80	**141-1020**	**$3.99**	**$3.59**	**$3.19**	**$2.79**
5" x 45	86/80	**141-1021**	**5.50**	**4.95**	**4.40**	**3.85**
6" x 50	86/80	**141-1022**	**8.90**	**8.01**	**7.12**	**6.23**

E

E. Loose Plum Muslin Buffs – 3/8" Arbor Hole

Made of the same treated fine-weave muslin with combed edges as our other plum buffs. Have 3/8" diameter arbor holes for use on 3/8" arbor shafts. Not for use on tapered spindles. Made in USA.

Dia. x Ply	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4" x 20	86/80	**141-1025**	**$1.95**	**$1.76**	**$1.56**	**$1.37**
5" x 20	86/80	**141-1030**	**2.26**	**2.03**	**1.81**	**1.58**
6" x 20	86/80	**141-1035**	**2.68**	**2.41**	**2.14**	**1.88**

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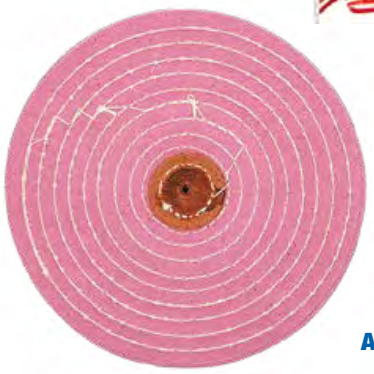
Made in the USA

A. Razor-Edge Plum Muslin Buff – Leather Pinhole Center

Made of the same treated fine-weave muslin with a leather center as our other plum buffs. Can reach into areas where conventional buffs cannot, such as corners, channels and slots. Stitching provides firm edge and maintains buff shape. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
6"	10	86/80	**140-6670**	**$5.12**	**$4.61**	**$4.10**	**$3.58**

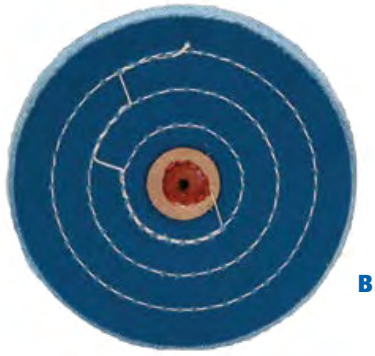


A

B. Stitched Blue Platinum Muslin Buffs – Leather Pinhole Center

Made of chemically treated premium-weave muslin with combed edges and leather centers. More aggressive and durable than yellow and plum buffs. Optimize the effectiveness of all platinum compounds, providing a higher polish on platinum in less time than other buffs. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4 x 50	3	86/80	**140-6701**	**$5.45**	**$4.91**	**$4.36**	**$3.82**
5 x 50	3	86/80	**140-6702**	**6.15**	**5.54**	**4.92**	**4.31**
6 x 50	4	86/80	**140-6703**	**8.70**	**7.83**	**6.96**	**6.09**

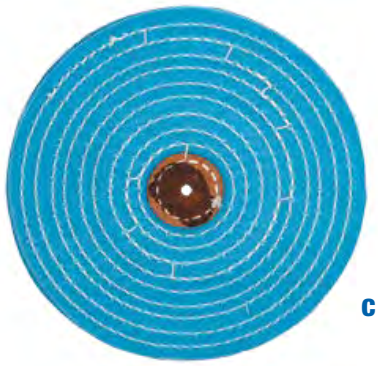


B

C. Razor-Edge Blue Platinum Muslin Buff – Leather Pinhole Center

Made of the same treated fine-weave muslin with a leather center as our other blue buffs. Can reach into areas where conventional buffs cannot, such as corners, channels and slots. Stitching provides firm edge and maintains buff shape. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
6"	10	86/80	**140-6704**	**$5.90**	**$5.31**	**$4.72**	**$4.13**

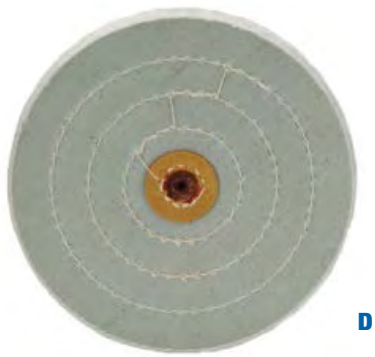


C

D. Stitched Gray Battle Muslin Buffs – Leather Pinhole Center

Made of chemically treated premium-weave muslin with combed edges and leather centers. Aggressive, extremely durable buffs for the toughest polishing jobs. Ideal for production use. Speed up cutting and polishing of hard metals such as platinum and stainless steel. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
4" x 50	3	86/80	**140-6801**	**$5.22**	**$4.70**	**$4.18**	**$3.65**
5" x 50	3	86/80	**140-6802**	**6.19**	**5.57**	**4.95**	**4.33**
6" x 50	4	86/80	**140-6803**	**8.59**	**7.73**	**6.87**	**6.01**



D

E. Razor-Edge Gray Battle Muslin Buffs – Leather Pinhole Center

Made of the same treated fine-weave muslin with leather centers as our other gray buffs. Can reach into areas where conventional buffs cannot, such as corners, channels and slots. Stitching provides firm edge and maintains buff shape. Made in USA.

Dia. x Ply	Rows of Stitching	Thread Count	Item#	EACH Prices 1-11	12-35	36-143	144+
6"	10	86/80	**140-6804**	**$5.93**	**$5.34**	**$4.74**	**$4.15**

E

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A

B

C

A-C Cylinder, Goblet & Tapered Buffs – Made in USA

Three different buffs for specialized jobs. Cylinder buffs polish inside tubular shapes. Tapered buffs polish inside tapered shapes. Goblet buffs polish inside goblets, chalices and other irregular shapes. Made of stitched fine-weave muslin. For use on tapered spindles.

Description	Size	Item#	EACH Prices 1-11	12+
A. Cylinder Buff	2" x 2"	**143-5200**	**$19.85**	**$16.54**
	3" x 3"	**143-5300**	**25.73**	**21.44**
B. Goblet Buff	2"	**143-3200**	**14.30**	**11.92**
	3"	**143-3300**	**17.38**	**14.48**
	4"	**143-3400**	**24.95**	**20.79**
C. Tapered Buff	2"	**143-1200**	**19.84**	**16.53**
	3"	**143-1300**	**25.73**	**21.44**
	3½"	**143-1350**	**29.00**	**24.17**

D

D. Canton Flannel Buffs – Shellac Pinhole Center

Made of soft, thick fabric with combed edges and shellac-hardened centers. Use with rouge to impart a high finish on precious metals. Excellent for high-karat gold and silver.

Dia. x Ply	Rows of Stitching	Item#	EACH Prices 1-11	12+
4" x 30	3	**142-8400**	**$3.74**	**$3.12**
5" x 30	3	**142-8500**	**5.05**	**4.21**
6" x 30	4	**142-8600**	**6.68**	**5.57**

E

E. Chamois Buff – Leather Pinhole Center – Made in USA

Made of soft, pliant leather with a leather center. Imparts a mirror finish on precious metals. Produces the brightest possible finish on yellow gold when used with Premium Red Rouge.

Dia. x Thick	Rows of Stitching	Item#	EACH Prices 1-2	3+
4" x ¾"	3	**142-5400**	**$15.60**	**$14.04**

F

F. Felt Buffs – Leather Pinhole Center

These wool felt buffs combine the excellent compound retention and long life of a lap with the flexibility and conform ability of a buff. Soft is flexible for following surface contours and is perfect for rouge and other polishing compounds. Medium is semi-flexible and designed for use with tripoli on soft metals. Both have four rows of stitching.

Dia. x Thick	Type	Item#	Each
6" x ¾" (6 ply)	Soft	**283-0001**	**$14.75**
6" x ¾" (6 ply)	Medium	**283-0002**	**18.65**

G

G. Brilliant Buff – No rouge, no mess!

Made of soft, long-strand pure Egyptian cotton treated with an environmentally friendly polishing chemical that creates no mess. Yields a bright shine on platinum, gold and silver without additional compound. After using Tripoli, polish with this buff for a brilliant finish. Leaves behind an undetectable residue that inhibits tarnish. For use on tapered spindles.

Dia. x Thick	Item#	Each
4½" x ¾" (30 ply)	**142-0010**	**$12.95**

H

H. Cotton String Buff

This ultra-soft buff imparts a superb finish on gold, especially when used with our Premium Red Rouge. Made of soft cotton string tufts firmly anchored in hub for durability. Can be used with any polishing compound. Made in Italy.

Dia. x Thick	Max. Operating Speed	Recommended Speed	Item#	EACH Prices 1-11	12+
4" x 2"	3,000rpm	2,800rpm	**142-0001**	**$10.75**	**$8.96**

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A-E Mandrel Buffs

Small unmounted stitched buffs for use with flex shaft handpieces. Made of fine-weave muslin with shellac pinhole centers. Mandrels not included (see pp. 460-461 for mandrel selection).

	Dia. x Ply	Rows of Stitching	Thread Count	Item#	(3pc) 3-9	EACH Prices 12-141	144+
A.	7/8" x 16	1	80/80	**142-0090**	**$0.94**	**$0.78**	**$0.66**
B.	1" x 16	2	80/80	**142-0100**	**0.94**	**0.78**	**0.66**
C.	1 1/4" x 16	2	80/80	**142-0125**	**0.99**	**0.82**	**0.69**
D.	1 1/2" x 16	3	80/80	**142-0150**	**1.01**	**0.84**	**0.71**
E.	2" x 16	4	80/80	**142-0200**	**1.11**	**0.92**	**0.78**

(3pc) *Three-piece minimum; please order in multiples of three.*

F. Cotton String Buff – 3/32" Shank

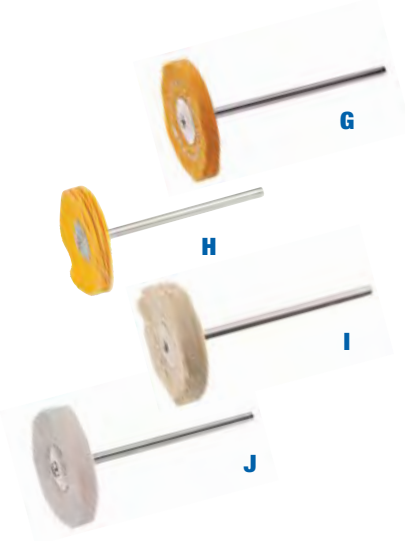
Our ultra-soft buff imparts a superb finish on gold, especially when used with our Premium Red Rouge (see p. 102). Made of soft cotton string tufts firmly anchored in hub for durability. Ideal for accessing tight or recessed areas. Can be used with any polishing compound. Made in Italy.

Dia.	Max. Operating Speed	Recommended Speed	Item#	EACH Prices 1-11	143	144+
1"	22,000rpm	17,000rpm	**142-0300**	**$2.40**	**$2.00**	**$1.68**

G-J Mounted Muslin Buffs – 3/32" Shank

Available in firm yellow for cutting and soft white for polishing, both loose or stitched, mounted on 3/32" shanks. Recommended operating speed 5,000 rpm. Made in Germany.

	Description	Dia.	Item#	EACH Prices 1-11	12+
G.	Yellow Stitched	1"	**142-0340**	**$1.59**	**$1.43**
H.	Yellow Loose	1"	**142-0342**	**1.49**	**1.34**
I.	White Stitched	1"	**142-0345**	**1.30**	**1.17**
J.	White Loose	1"	**142-0347**	**1.20**	**1.08**



K. Mounted Muslin Buff – 3/32" Shank

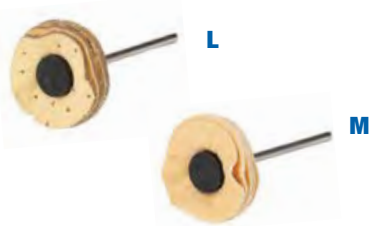
Miniature muslin buff for use with flex shaft handpieces. Mounted on a 3/32" shank. Germany.

Dia. x Thick	Recommended Speed	Item#	EACH Prices 1-11	12+
7/8" x 1/4"	5,000rpm	**142-0325**	**$5.10**	**$4.59**

L, M Faux Chamois Buffs – 3/32" Stainless Steel Shank

Durable artificial one inch diameter chamois buffs that hold compound very well. Choose from perforated yellow and smooth tan styles. Perforated yellow work with tripoli and other aggressive compounds; smooth tan produce a wonderful luster with rouge. Made in India.

	Dia. x Thick	Material	Use With	Item#	EACH Prices 1-11	12+
L.	1" x 3/8"	Perforated Yellow	Tripoli	**142-0020**	**$1.70**	**$1.53**
M.	1" x 3/16"	Smooth Tan	Rouge	**142-0024**	**1.70**	**1.53**



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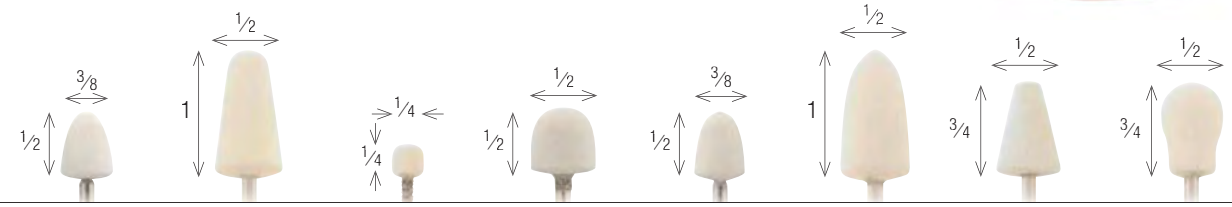
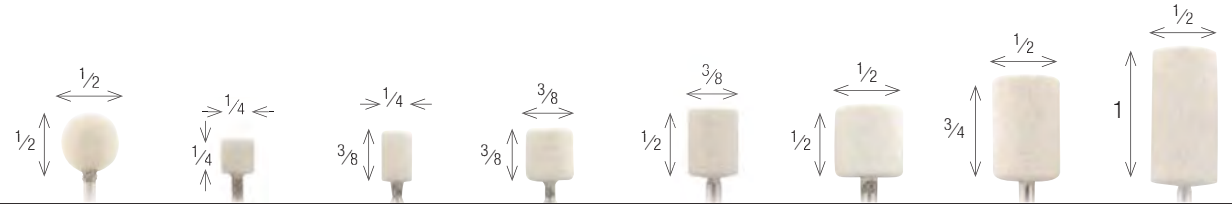
Felt Bobs

Made from the finest 100% wool for long life. Available mandrel-mounted or unmounted. May be used with various polishing compounds or rouges to produce a clean, high finish on molds, dies and models. Hard, medium and soft grades available in most shapes. All ⅛" shank unless otherwise indicated. All measurements in inches. **Items with an asterisk also available on 3mm shanks.** Made in USA.

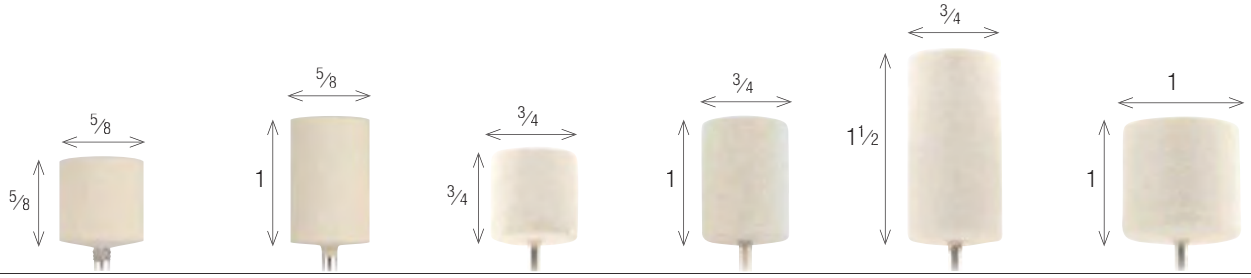
Made in the USA



12pc ⅛" Shank								
Hard (Item#)	286-1010*	286-1011	286-1020*	286-1022	286-1030	286-1031	286-1040	286-1051
Medium (Item#)	290-1010	–	290-1020	290-1022	290-1030	–	–	290-1051
Soft (Item#)	289-1010	–	289-1020	289-1022	289-1030	–	–	289-1051
12-24 (each)	$1.93	$2.06	$1.83	$1.90	$1.80	$2.00	$1.80	$1.80
36-60** (each)	1.83	1.96	1.74	1.81	1.71	1.90	1.71	1.71
72+**	1.74	1.85	1.65	1.71	1.62	1.80	1.62	1.62



12pc ⅛" Shank								
Hard (Item#)	286-1060	286-1100*	286-1101*	286-1102*	286-1103*	286-1104*	286-1105*	286-1106*
Medium (Item#)	290-1060	290-1100*	290-1101*	290-1102*	290-1103*	290-1104*	290-1105*	290-1106*
Soft (Item#)	289-1060	289-1100*	289-1101*	289-1102*	289-1103*	289-1104*	289-1105*	289-1106*
12-24 (each)	$1.80	$1.19	$1.24	$1.24	$1.29	$1.40	$1.54	$1.68
36-60** (each)	1.71	1.13	1.18	1.18	1.23	1.33	1.46	1.60
72+**	1.62	1.07	1.12	1.12	1.16	1.26	1.39	1.51



12pc ⅛" Shank						
Hard (Item#)	286-1107	286-1108	286-1110*	286-1111*	286-1113*	286-1114*
Medium (Item#)	290-1107	290-1108	290-1110*	290-1111*	–	290-1114*
Soft (Item#)	289-1107	289-1108	289-1110*	–	–	289-1114*
12-24 (each)	$1.48	$2.04	$2.15	$2.34	$2.88	$2.88
36-60** (each)	1.41	1.94	2.04	2.22	2.74	2.74
72+**	1.33	1.84	1.94	2.11	2.59	2.59

12pc ¼" Shank						
Hard (Item#)	286-1097	286-1098	286-1099	286-1109	286-1112	286-1115
12-24 (each)	$1.90	$2.11	$2.30	$2.47	$3.19	$2.88
36-60** (each)	1.81	2.00	2.19	2.35	3.03	2.74
72+**	1.71	1.90	2.07	2.22	2.87	2.59

*12-piece minimum; please order in multiples of 12. *Also available on 3mm shanks. **Quantity discount for orders of one item number only; not assorted.*

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A-C Felt Bob Sets – 1/8" Shank

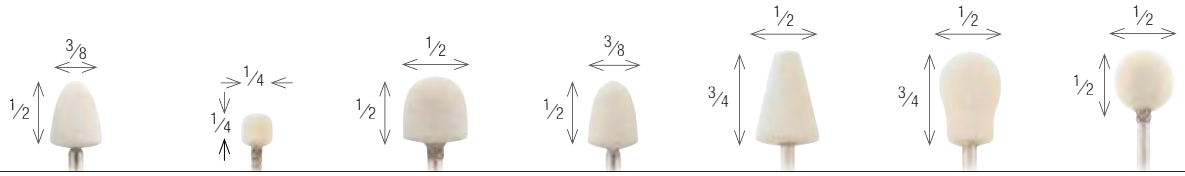
Choose from six different sets of mounted bobs listed on previous page. Trial Sets in our most popular shapes and sizes. Made in USA.

A. 4-Piece Fancy

Soft or Medium — #1010 #1020 #1022 #1030

	Description	Shapes	Components	Item#	EACH Set
A.	4-Piece Soft Set	Fancy	289-1010, 20, 22, 30	**289-1116**	**$6.00**
	4-Piece Medium Set	Fancy	290-1010, 20, 22, 30	**290-1117**	**5.60**

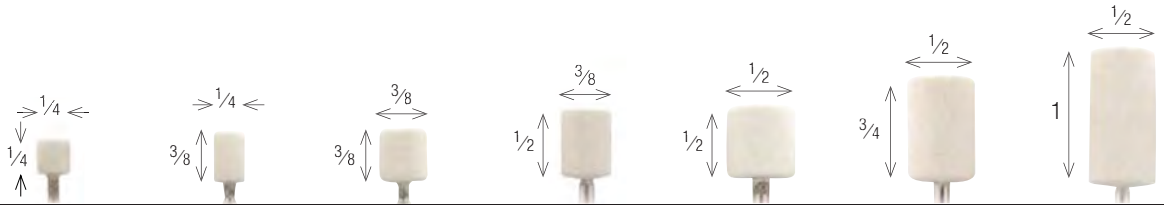
B. 7-Piece Fancy



Hard — #1010 #1020 #1022 #1030 #1040 #1051 #1060

	Description	Shapes	Components	Item#	EACH Set
B.	7-Piece Hard Set	Fancy	286-1010, 20, 22, 30, 40, 51, 60	**286-1118**	**$9.75**

C. 7-Piece Cylinder



Soft, Medium or Hard — #1100 #1101 #1102 #1103 #1104 #1105 #1106

	Description	Shapes	Components	Item#	EACH Set
C.	7-Piece Soft Set	Cylinder	289-1100, 1, 2, 3, 4, 5, 6	**289-1119**	**$9.50**
	7-Piece Medium Set	Cylinder	290-1100, 1, 2, 3, 4, 5, 6	**290-1120**	**9.00**
	7-Piece Hard Set	Cylinder	286-1100, 1, 2, 3, 4, 5, 6	**286-1121**	**9.50**

D. Countersunk Felt Bob – 3mm Shank

These felt bobs are specially designed for polishing flat surfaces, utilizing the end of the bob. The center hole on the bob helps stabilize it while rotating so it is easy to control and won't "walk." In addition, the tapered sides allow you to polish to the side wall, without it inadvertently being polished. Measures 7/8" dia. x 1"H with a 3/8"D cavity. Mounted on 3mm shanks. Made in USA.

Hardness	Size	Item#	EACH Prices 1-5	6+
Rock-Hard	3mm shank	**295-0012**	**$5.10**	**$4.85**
Diamond-Hard	3mm shank	**295-0014**	**5.10**	**4.85**

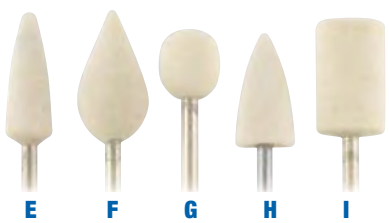
Shown actual size

E-I Felt Bobs – 3/32" Shank

Made of pure wool. Sold individually and in a set of all five shapes, which comes in a wooden stand with plastic case to keep bobs free of dust and dirt. Mounted on 3/32" shanks. Max. operating speed: 15,000rpm. Made in USA.

	Dia. x H	Shape	Medium Item#	Hard Item#	EACH Prices 1-11	12+*
E.	1/4" x 3/4"	Point	**288-2300**	**288-2200**	**$1.80**	**$1.49**
F.	3/8" x 3/4"	Flame	**288-2301**	**288-2201**	**1.80**	**1.49**
G.	5/16" x 3/8"	Ball	**288-2302**	**288-2202**	**1.80**	**1.49**
H.	5/16" x 5/8"	Bullet	**288-2303**	**288-2203**	**1.80**	**1.49**
I.	3/8" x 5/8"	Cylinder	**288-2305**	**288-2205**	**1.80**	**1.49**
	5-Piece Set	–	**288-2307**	**288-2207**	**7.50**	**-**

**Quantity discount for orders of one item number only; not assorted.*



Shown actual size

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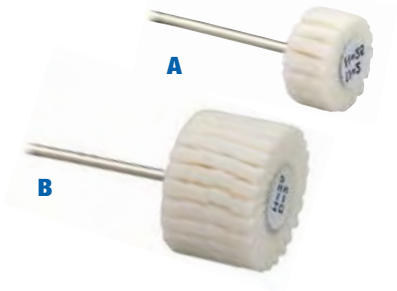
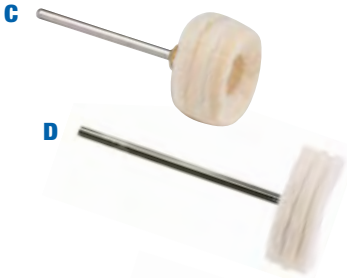


A, B Felt Flap Wheels – 1/8" Shank

Uniquely constructed soft pure felt wheels for use with polishing compounds. Made in Germany.

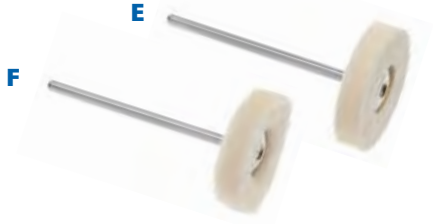
Dia. x H	Item#	EACH Prices 1-2	3+
A. 3/4" x 3/8"	**288-2213**	**$8.65**	**$8.22**
B. 1 1/4" x 3/4"	**288-2214**	**9.85**	**9.36**



C, D Mounted Felt Wheels – 3/32" Shank

Soft wheels ideal for cutting and polishing larger surfaces. Mounted on 3/32" shanks.

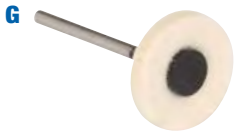
Dia. x Thick	Recommended Speed	Type	Item#	EACH Prices 1-11	12+
C. 7/8" x 1/2"	5,000rpm	3 ply Very Soft	**288-2210**	**$3.25**	**$2.93**
D. 7/8" x 5/16"	5,000rpm	3 ply Soft	**288-2211**	**2.20**	**1.98**



E, F Mounted Felt Wheels – 3/32" or 1/8" Shanks

Both hard and soft in either 3/32" or 1/8" shank sizes. Hard provides a more aggressive cutting action while soft produces a higher finish. Made in Germany.

Dia. x Thick	Shank size	Recommended Speed	Type	Item#	EACH Prices 1-11	12+
E. 7/8" x 3/16" (5mm)	3/32"	5,000rpm	Hard	**288-2221**	**$2.50**	**$2.00**
7/8" x 3/16" (5mm)	1/8"	5,000rpm	Hard	**288-2222**	**2.50**	**2.00**
F. 7/8" x 3/16" (5mm)	3/32"	5,000rpm	Soft	**288-2223**	**1.35**	**1.08**
7/8" x 3/16" (5mm)	1/8"	5,000rpm	Soft	**288-2224**	**1.35**	**1.08**



G. Mounted Felt Wheel with Plastic Hub – 3/32" Shank

Soft felt wheel mounted on a nonscratching plastic hub with 3/32" stainless steel shank. Works so well that it's patented. Use with compound for cutting and polishing. India.

Dia. x Thick	Type	Item#	EACH Prices 1-11	12+
1" x 3/16"	Soft	**288-2209**	**$1.35**	**$1.22**

H, I Compressed Fiber Wheels – 3/32" Shank

Fibers are compressed and bonded with aluminum oxide to make a firm, dense long lasting wheel with some flexibility. Creates a beautiful scratch finish that contrasts well with highly polished areas. Fine wheel creates a very soft satin finish, coarse a more distinct scratch. Recommended working speed: 5,000rpm. Made in Germany.

Dia. x Thick	Type	Item#	EACH Prices 1-11	12+
H. 7/8" x 3/8"	Coarse	**288-2250**	**$4.95**	**$4.46**
I. 7/8" x 3/8"	Fine	**288-2251**	**4.95**	**4.46**

J. Unitized Mounted Points – 1/8" Shank

Ideal for a variety of deburring, blending, finishing and polishing applications. Consist of durable unitized material embedded with fine silicon carbide and mounted on 1/8" shanks. Conform to workpieces for consistent, uniform finishing without undercutting or gouging.

Style	Dia. x H	Max. RPM	Item#	Each
B42	1/2" x 3/4"	33,750	**845-0080**	**$6.65**
B52	3/8" x 3/4"	45,300	**845-0081**	**5.60**
B90	1/2" x 1/2"	34,500	**845-0082**	**5.10**
W160	1/4" x 1/4"	81,300	**845-0083**	**3.60**
W183	1/2" x 1/4"	51,700	**845-0084**	**4.20**
W185	1/2" x 1/2"	34,500	**845-0085**	**4.90**

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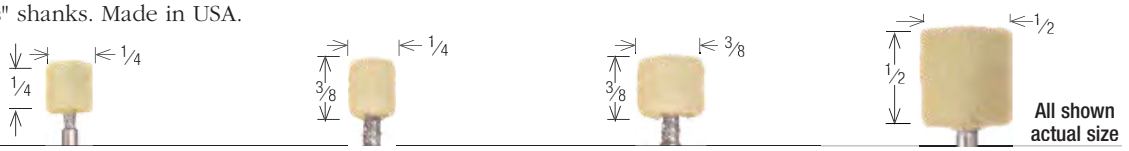
A. Diamond Impregnated Felt Bobs – 1/8" Shank

Diamond abrasive is loaded throughout the wool felt eliminating the need for additional compound. Ready to work immediately, they polish quickly, constantly introducing new diamond abrasive to the work surface. The diamond felts are also *self-lubricating* so no extra lubricant is required. Available in 5 grits from 1 micron to 15 micron in our 4 most popular shapes. All 1/8" shanks. Made in USA.

Made in the USA

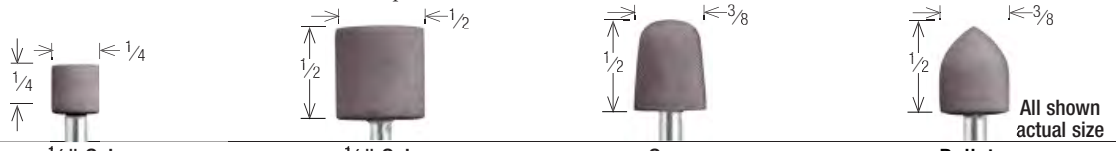


Diamond Micron	#1100	#1101	#1102	#1104
1	284-2100	284-2110	284-2120	284-2140
3	284-2101	284-2111	284-2121	284-2141
6	284-2102	284-2112	284-2122	284-2142
9	284-2103	284-2113	284-2123	284-2143
15	284-2104	284-2114	284-2124	284-2144
1-11 (each)	$2.75	$3.95	$3.95	$3.65
12+ (each)*	2.61	3.75	3.75	3.47

**Quantity discount for orders of one item number only; not assorted.*

B. DUROTEX™ Abrasive Impregnated Composites – 1/8" Shank

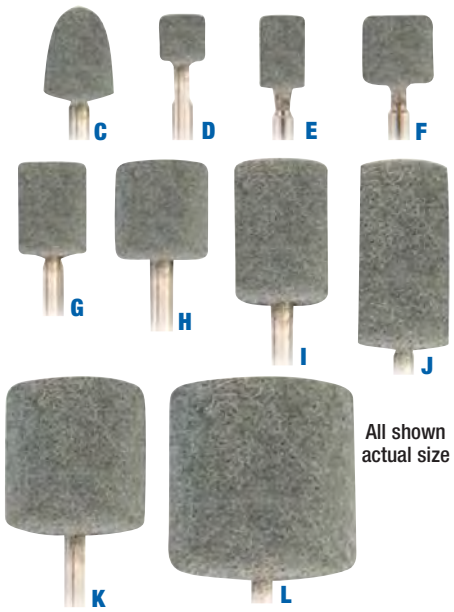
DUROTEX composites are made out of a tough and resilient polyurethane type material. Available with Silicone Carbide or Aluminum Oxide grain, the composite bond and abrasive grain wear evenly to ensure consistent performance and surface finishes. DUROTEX is high temperature resistant and will not heat up or melt even under strenuous conditions. Can be used on many materials including all metals, (even brass and titanium), glass and more. Please consult ANSI for speed recommendations. All 1/8" shanks. Made in USA.



Description	1/4" Cyl	1/2" Cyl	Cone	Bullet
Silicone Carbide Coarse	284-0012	284-0022	284-0032	284-0042
Silicone Carbide Medium	284-0014	284-0024	284-0034	284-0044
Silicone Carbide Fine	284-0016	284-0026	284-0036	284-0046
Aluminum Oxide Coarse	284-0052	284-0062	284-0072	284-0082
Aluminum Oxide Medium	284-0054	284-0064	284-0074	284-0084
Aluminum Oxide Fine	284-0056	284-0066	284-0076	284-0086
EACH	$2.50	$2.95	$3.95	$3.95

C-L Mounted Impregnated Felt Bobs – 1/8" Shank

Felt bobs evenly impregnated with 8000 grit silicon carbide abrasive for uniform removal of light scratches and brightening. Help shorten the final finishing process. Reduce messy compound cleanup. Suitable for all metals, including soft metals such as brass. Available in hard and medium grades. Mounted on 1/8" shanks. Max. operating speed: 10,000rpm. USA.



Dia. x H	Medium Item#	Hard Item#	EACH Prices 1-35	36-71*	72+*
C. 3/8" x 1/2"	284-2000	284-1030	$1.90	$1.81	$1.71
D. 1/4" x 1/4"	284-2002	284-1100	1.70	1.62	1.53
E. 1/4" x 3/8"	–	284-1101	1.70	1.62	1.53
F. 3/8" x 3/8"	284-2004	284-1102	1.70	1.62	1.53
G. 3/8" x 1/2"	284-2006	284-1103	1.70	1.62	1.53
H. 1/2" x 1/2"	284-2008	284-1104	1.70	1.62	1.53
I. 1/2" x 3/4"	284-2010	284-1105	1.87	1.78	1.68
J. 1/2" x 1"	–	284-1106	2.74	2.60	2.47
K. 3/4" x 3/4"	284-2012	284-1110	2.90	2.76	2.61
L. 1" x 1"	284-2014	284-1114	3.95	3.75	3.56

**Quantity discount for orders of one item number only; not assorted.*

M. Synflex Polishers Diamond Impregnated Felt – 3/32" Shank

Unique, patent-pending polishers for buffing and polishing in a single step. Made of soft synthetic material that conforms to just about any surface. Impregnated with abrasive to eliminate the need for messy polishing compounds. Mounted on 3/32" shanks. Made in USA.

Micron/Grit	Max. Operating Dia. x Thick	Speed	Item#	EACH Prices 1-35	36-71	72+
6	7/8" x 3/8"	10,000rpm	284-1145	$1.60	$1.52	$1.44
3	7/8" x 3/8"	10,000rpm	284-1140	1.56	1.48	1.40

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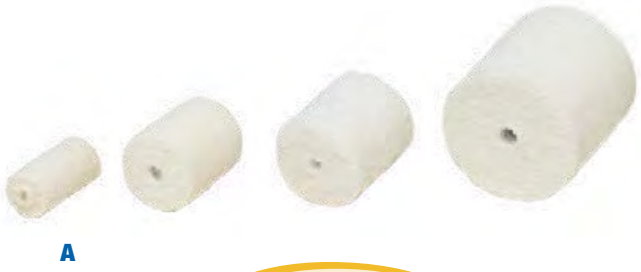


A

Mandrels
See pages 460-461.

A. Unmounted Hard Felt Cylinder Bobs - USA

Made of pure wool. Pinhole centers. Mandrels not included (see pp. 460-461 for mandrel selection). Made in USA.

Dia. x H	Mandrel	Item#	EACH Prices (12pc) 12-132	144+
1/4" x 3/8"	#3 or #13	**288-0010**	**$0.99**	**$0.82**
3/8" x 1/2"	#30	**288-0020**	**1.19**	**0.99**
1/2" x 1/2"	#30	**288-0030**	**1.25**	**1.04**
3/4" x 3/4"	#33	**288-0040**	**1.70**	**1.42**
1" x 1"	#33	**288-0050**	**2.80**	**2.33**

(12pc) *Twelve-piece minimum; Please order in multiples of twelve.*

B C D E

F G H

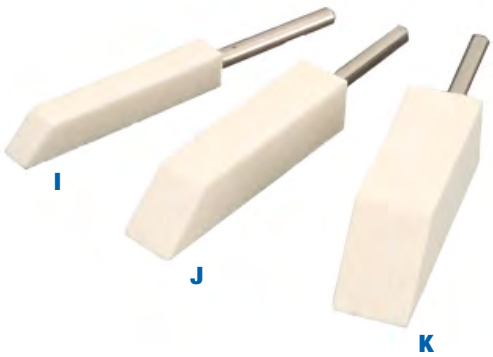
B-H Unmounted Hard Felt Cones

Made of the finest pure wool for long life. Great for polishing objects with rounded or curved surfaces. Pinhole centers. Mandrels not included (see pp. 460-461 for mandrel selection). Made in USA.

Dia. x H	Shape	Item#	EACH Prices (12pc) 12-132	144+
B. 1/4" x 1/2"	Pointed	**282-0480**	**$1.29**	**$1.07**
C. 3/8" x 3/4"	Pointed	**282-0490**	**1.25**	**1.04**
D. 1/2" x 1"	Pointed	**282-0500**	**1.79**	**1.49**
E. 1/2" x 1"	Blunt	**282-0501**	**1.80**	**1.50**

(12pc) *Twelve-piece minimum; Please order in multiples of twelve.*

Dia. x H	Shape	Item#	EACH Prices 1-11	12-143	144+
F. 3/4" x 1 1/2"	Pointed	**282-0510**	**$2.00**	**$1.67**	**$1.40**
G. 3/4" x 1 1/2"	Blunt	**282-0511**	**2.25**	**1.87**	**1.58**
H. 1" x 2"	Pointed	**282-0520**	**4.19**	**3.49**	**2.93**



I J K

I-K Poli-Felts – 1/8" Shank

Feature end cut at 45° angle for comfort. For use with reciprocating handpieces such as Power Hand PH3 SZX (see p. 429), Di-Profiler (see pp. 431, 448-449, 452) and others. Made in USA.

	Dimensions	Style	Type	Item#	EACH Prices 1-11	12-143	144+
I.	1/4" sq. x 1 1/2"L	61	Hard	**288-4610**	**$3.60**	**$3.00**	**$2.52**
J.	3/8" sq. x 1 1/2"L	62	Hard	**288-4620**	**4.04**	**3.37**	**2.83**
K.	1/2" sq. x 1 1/2"L	63	Hard	**288-4630**	**4.35**	**3.62**	**3.05**
	1/4" sq. x 1 1/2"L	61	Medium	**288-4615**	**3.40**	**2.83**	**2.38**
	3/8" sq. x 1 1/2"L	62	Medium	**288-4625**	**3.80**	**3.17**	**2.66**
	1/2" sq. x 1 1/2"L	63	Medium	**288-4635**	**4.00**	**3.33**	**2.80**

L M

L, M Soft Pure Wool Felt Hand Buffs

For high finish when used with rouge. Have wooden handles. 12" overall length.

	Felt Size W x L	Type	Item#	EACH Prices 1-11	12-143	144+
L.	3/8" x 6"	Soft	**288-1015**	**$3.95**	**$3.29**	**$2.77**
M.	7/8" x 6"	Soft	**288-1010**	**4.75**	**3.96**	**3.33**

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Felt Wheels

Manufactured from carefully selected wool without synthetic fibers or fillers, ensuring product reliability. Feature uniform density throughout for longer life. Yield high-quality finishes every time. Can be shaped.

Made in the USA

A. Soft Felt Wheels – For High Finish

Can be used on irregular surfaces where fast metal removal is unnecessary. Very flexible. Pinhole centers. Mandrel not included (see pp. 460-461 for mandrel selection). Made in USA.

A

Dia. x Thick	Item#	EACH Prices (12pc) 12-132	144+
1" x 1/8"	280-0005	$0.39	$0.32
1" x 1/4"	280-0007	0.60	0.50
1 1/4" x 1/4"	280-0006	0.99	0.82

B. Hard Felt Wheels

Felts in this series have been cut from sheet stock, hardened to appropriate finishing requirements and dressed to size. Pinhole centers. Mandrel not included (see pp. 460-461 for mandrel selection). Use 2" diameter and larger on tapered spindle. Made in USA.

Dia. x Thick	Item#	EACH Prices (12pc) 12-132	144+
1/2" x 1/8"	280-0020	$0.39	$0.32
5/8" x 1/8"	280-0041	0.39	0.32
3/4" x 1/8"	280-0060	0.41	0.34
1" x 1/8"	280-0101	0.49	0.41
1" x 1/4"	280-0110	1.19	0.99

B

Dia. x Thick	Item#	EACH Prices 1-2	3-11	12-143	144+
1 1/4" x 1/4"	280-0120	$1.29	$1.16	$1.07	$0.90
1 1/4" x 3/8"	280-0130	1.90	1.71	1.58	1.33
1 3/8" x 3/8"	280-0140	2.25	2.03	1.87	1.58
2" x 1/4"	280-0200	2.40	2.16	2.00	1.68
2" x 1/2"	280-0220	3.90	3.51	3.25	2.73
2 1/2" x 3/8"	280-0260	3.50	3.15	2.92	2.45

C. Knife-Edge Felt Wheels

These felt wheels have tapered edges for polishing joints and crevices. Pinhole centers. Mandrel not included (see pp. 460-461 for mandrel selection). Use 2" diameter and larger on tapered spindle. Made in USA.

C

Dia.	Type	Item#	EACH Prices (12pc) 12-132	144+
1/2"	Hard	281-0021	$0.87	$0.72
5/8"	Hard	281-0041	0.87	0.72
3/4"	Hard	281-0060	1.15	0.96
1"	Hard	281-0100	1.35	1.12
1"	Rock-Hard	281-0101	1.65	1.37
1 1/4"	Hard	281-0201	1.98	1.65
1 1/2"	Hard	281-0300	1.98	1.65

Dia.	Type	Item#	EACH Prices 1-11	12-143	144+
1 3/4"	Hard	281-0400	$3.90	$3.51	$3.12
2"	Hard	281-0501	3.95	3.56	3.16
2 1/2"	Hard	281-0700	6.70	6.03	5.36
3"	Hard	281-0801	5.50	4.95	4.40
3"	Flint-Hard	281-1030	7.50	6.75	6.00
4"	Flint-Hard	281-1040	13.80	12.42	11.04

(12pc) 12-piece minimum; please order in multiples of 12.

All prices subject to change without notice.

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Patented by F. W. Gesswein in 1872 and still…the ring buffs of CHOICE!

Gesswein® Felt Ring Buffs

For cutting and polishing insides of rings and curved surfaces. Made of pure wool felt mounted on reinforced wooden mandrels drilled for tapered spindles.

A. Felt Ring Buffs

Patented by F. W. Gesswein in 1872 and still the ring buffs of choice!

For cutting and polishing insides of rings and curved surfaces. Made of pure wool felt mounted on reinforced wooden mandrels drilled for tapered spindles.

Felt Length	Ring Sizes	Taper	For Ring Types*	Item#	EACH Prices 1-5	6-11	12-143	144+
3"	1–5	9/16"–5/16"	C	**283-0010**	**$3.45**	**$3.11**	**$2.87**	**$2.42**
3"	5–8	3/4"–9/16"	L	**283-0700**	**3.75**	**3.38**	**3.12**	**2.63**
4"	8–11	7/8"–5/8"	L	**283-0710**	**4.05**	**3.65**	**3.37**	**2.84**
4"	10–17	1"–3/4"	B	**283-0715**	**5.15**	**4.64**	**4.29**	**3.61**
5"	8–17	1"–11/16"	B	**283-0721**	**6.50**	**5.85**	**5.42**	**4.55**
6"	10–21	1 1/16"–3/4"	M	**283-0730**	**7.25**	**6.53**	**6.04**	**5.08**
3"**	6–9	3/4"–9/16"	L	**283-1700**	**3.10**	**2.79**	**2.58**	**2.17**
4"**	8–17	7/8"–5/8"	M	**283-1710**	**4.99**	**4.49**	**4.16**	**3.49**

**C = children's, L = ladies', M = men's, B = ladies' and men's **Hardened and treated*

B. Soft Felt Ring Buffs

For direct mounting on tapered spindles. Made entirely of pure wool felt.

	Felt Length	Ring Sizes	Taper	Item#	EACH Prices 1-5	6-11	12-143	144+
B.	3"	5–8	3/4"–9/16"	**283-2030**	**$3.15**	**$2.84**	**$2.62**	**$2.21**
	4"	8–12	7/8"–5/8"	**283-2040**	**3.95**	**3.56**	**3.29**	**2.77**

C. Combination Felt Ring Buffs

Each consists of pure wool felt square edge wheel buff and inside ring buff mounted on wooden mandrel drilled for tapered spindles. Lets user polish outsides and insides of rings and curved surfaces without changing buffs.

	Felt Length	Ring Sizes	Wheel Size	Item#	EACH Prices 1-5	6-11	12+
C.	3"	5–8	2" x 1/2"	**283-4010**	**$6.50**	**$5.85**	**$5.42**
	4"	7–13	2" x 9/16"	**283-4020**	**8.25**	**7.43**	**6.87**

D, E Felt Sticks

Beveled ends of these solid felt sticks can be used with cutting or polishing compounds, including diamond compounds.

Size	Type	Item#	EACH Prices (12pc) 12-60	72+
4"L x 1/4" sq.	Soft	**288-3020**	**$0.71**	**$0.60**
	Medium	**288-3015**	**0.71**	**0.60**
	Hard	**288-3010**	**0.71**	**0.60**

(12pc) 12-piece minimum; please order in multiples of 12.

Size	Type	Item#	EACH Prices 1-11	12+
4"L x 1/2" sq.	Soft	**288-3035**	**$2.15**	**$1.94**
	Medium	**288-3030**	**2.15**	**1.94**
	Hard	**288-3025**	**2.15**	**1.94**

F. Outside Wooden Ring Holder

Safely hold rings while polishing with felt ring buffs (above).

Description	Item#	Each
Outside Ring Holder	**812-0311**	**$5.60**

G. Felt Bangle Buff

Made of felt mounted on a wooden mandrel drilled for tapered spindles. Ideal for finishing insides of bangle bracelets and other large pieces. Measures 3 1/2" long. For use on tapered spindles.

Felt Dia. x H	Type	Item#	Each
2"–1 7/8" x 2"	Medium	**283-0050**	**$9.75**

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Mandrels

Use in handpieces and hand grinders for holding items such as felt wheels, brushes, rubberized abrasives, cut-off discs and more. Also see Cratex mandrels on p. 92.

A-I Screw Mandrels

For use with Pumice, Cratex and other wheels with a maximum thickness of ¼". Right-handed threads. Made of steel except 321½, which is stainless steel (excellent for wet operations).

	Style	Shank	For Hole	Item#	EACH Prices (3pc) 3-9	12+
A.	321	3/32"	1/16"	840-3170	$1.20	$1.00
B.	321½	3/32"	1/16"	840-3160	2.35	1.96
C.	304	3/32"	1/16"	840-3175	2.45	2.04
D.	2	3/32"	1/8"	840-3060	2.10	1.75
E.	311	1/8"	1/16"	840-3150	1.40	1.17
F.	20	1/8"	1/8"	840-3100	2.15	1.79
G.	22	1/8"	1/8"	840-3110	3.15	2.62
H.	24	1/8"	1/4"	840-3112	2.30	1.92

	Style	Shank	For Hole	Item#	EACH Prices 1-11	12+
I.	25	1/4"	1/4"	840-3115	$4.50	$3.75

J-O Tapered Threaded Mandrels

For use with felt bobs, cones and mandrel buffs. Right-handed threads.

	Style	Shank	For Hole	Length of Taper	Item#	EACH Prices (3pc) 3-9	12+
J.	3	3/32"	1/16"	3/16"	840-3070	$1.25	$1.04
K.	13	1/8"	1/16"	3/16"	840-3090	1.25	1.04
L.	0	3/32"	1/16"	3/8"	840-3040	1.25	1.04
M.	30	1/8"	1/16"	3/8"	840-3120	1.05	0.87

	Style	Shank	For Hole	Length of Taper	Item#	EACH Prices 1-11	12+
N.	33	1/8"	1/4"	3/4"	840-3130	$3.85	$3.21
O.	43	1/4"	3/8"	1"	840-3140	6.80	5.67

Shown actual size

P-S Threaded Mandrels with Nuts

For use with rubberized points, cones, and cylinders such as Cratex. Right-handed threads.

	Style	Shank	For Hole	Length of Taper	Item#	EACH Prices (3pc) 3-9	12+
P.	1	3/32"	3/32"	1/2"	840-3050	$1.60	$1.33
Q.	4	1/8"	3/32"	1/2"	840-3080	1.20	1.00

	Style	Shank	Hole	Length of Thread	Item#	EACH Prices 1-11	12+
R.	6	1/8"	1/8"	1/2"	840-3085	$5.04	$4.20
S.	1341	1/4"	1/4"	1/2"	840-3180	7.54	6.28

(3pc) *Three-piece minimum; please order in multiples of three.*

Safety Recommendations

Mandrels and mounted accessories improperly used are dangerous. Comply with American National Standards Institute Safety Code B7.1 and Occupational Safety and Health Act covering speed, safety guards, flanges, mounting procedures, general operating rules, handling, storage and inspection. Speeds to use depend on the accessory.

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Gesswein® Laps

Lapping maintains integrity of flat surfaces and keeps angles and corners from being rounded off during polishing. Unlike buffs, which are soft, laps are very firm and have a wider area to cover much more of the work surface. Can even be shaped to knife or beveled edges.

When selecting laps, please consider the following information:

Felt Laps: Pure wool felt laps hardened by a process of steaming and pounding. Free of artificial hardeners.

Diamond-Hard Laps: Pure wool felt laps excellent for lapping due to a treatment that results in extreme density.

Split Laps: Slotted in four places to allow user to see finish as work is held on lap. Use on split lapping machines.

Silicone: Superior finish on gold and other precious metals.

GMX: Unique bond of abrasive-impregnated cotton in flexible bond. Excellent for deburring and blending aluminum, stainless steel and exotic alloys.

A

A. Gesswein/Paramount® Felt Laps

Pure wool felt laps uniquely made to ensure proper hardness and performance. All have pinhole centers. Max. operating speed: 3,450rpm. Made in USA.

Dia. x Thick	Type	Item#	EACH Prices 1-5	6-11	12-71
4" x ¼"	Hard	284-4145	$16.60	$14.94	$13.83
	Rock-Hard	284-4147	16.90	15.21	14.08
4" x ½"	Soft	284-4121	10.99	9.89	9.16
	Medium	284-4123	15.99	14.39	13.32
	Hard	284-4125	20.55	18.50	17.12
	Rock-Hard	284-4127	24.80	22.32	20.67
4" x ¾"	Medium	284-4343	26.75	24.08	22.29
	Hard	284-4345	28.99	26.09	24.16
6" x ¼"	Hard	284-6145	31.40	28.26	26.17
	Flint-Hard	284-6148	40.20	36.18	33.50
6" x ½"	Soft	284-6121	26.25	23.63	21.87
	Medium	284-6123	32.60	29.34	27.17
	Hard	284-6125	42.50	38.25	35.42
	Rock-Hard	284-6127	47.70	42.93	39.75
	Flint-Hard	284-6128	56.65	50.99	47.21
6" x 1"	Soft	284-6101	48.50	43.65	40.42
	Medium	284-6103	50.40	45.36	42.00
	Hard	284-6105	59.35	53.42	49.46

B

B. Diamond-Hard Felt Laps

Pure wool felt laps treated and pressed for exceptional durability. Face of lap can be dressed to a knife edge. Max. operating speed: 3,600rpm. Made in USA.

Dia. x Thick x AH	Type	Item#	EACH Prices 1-5	6-11	12-71
4" x ¼" x ¼"	Diamond-Hard	284-4149	$15.10	$13.59	$12.58
4" x ½" x ¼"	Diamond-Hard	284-4129	19.95	17.96	16.62
6" x ¼" x ¼"	Diamond-Hard	284-6149	25.85	23.27	21.54
6" x ¼" x ½"	Diamond-Hard	284-6249	25.85	23.27	21.54

C-F Dedeco® Silicone Split Laps, 6"

Designed to replace felt laps and rouge, these split laps provide a superior finish on gold and other metals. Each wheel is made of silicone rubber and impregnated with silicon-carbide abrasive. Available in 4 grits. Max operating speed: 3,500rpm. ½" Arbor Hole.

Coarse: For removing deep scratches
Medium: For smoothing and removing light scratches
Fine: For high-luster polishing
Extra-fine: For super high-luster polishing and final finish

	Color	Size	Grit	Item#	Each
C.	White	6" x ½"	120 (C)	145-0180	$51.95
D.	Black	6" x ½"	180(M)	145-0181	51.95
E.	Blue	6" x ½"	220 (F)	145-0182	51.95
F.	Pink	6" x ½"	400 (XF)	145-0183	51.95

A. Gesswein®/Paramount® Felt Split Laps

Made of pure wool felt that has been steamed to shrink and thicken, then pounded into specific hardnesses. Feature consistent density throughout for identical polishing results from wheel to wheel, even wear and three to five times the life of conventional split laps. All have pinhole centers. Max. operating speed: 3,450rpm. Made in USA.

Dia. x Thick	Type	Item#	EACH Prices 1-5	6-11	12-71
4" x ½"	Medium	285-8130	$38.65	$34.79	$32.21
	Hard	285-8131	41.00	36.90	34.17
	Rock-Hard	285-8132	49.05	44.15	40.87
6" x ½"	Medium	285-6123	42.25	38.03	35.21
	Hard	285-6125	45.30	40.77	37.75
	Rock-Hard	285-6127	57.25	51.53	47.71
	Flint-Hard	285-6128	65.15	58.64	54.29
7" x ½"	Medium	285-7120	57.00	51.30	47.50
	Hard	285-7121	66.70	60.03	55.58
	Rock-Hard	285-7122	74.70	67.23	62.25
	Flint-Hard	285-7123	92.70	83.43	77.25
8" x ½"	Medium	285-8123	70.00	63.00	58.33
	Hard	285-8125	82.25	74.03	68.54
	Rock-Hard	285-8127	94.00	84.60	78.33
	Flint-Hard	285-8128	102.50	92.25	85.41

A

B. Marathon Felt Split Laps

100% Australian wool steamed and pounded to form an evenly dense lap to provide consistent finishes from lap to lap. These are high quality felt split laps at an incredible price. Available in Medium and Hard grades. Measure 6" diameter x ½" thick with pinhole center. Maximum operating speed: 3,450rpm.

Dia. x Thick	Type	Item#	EACH Prices 1-11	12+
6" x ½"	Medium	285-6134	$32.65	$27.43
6" x ½"	Hard	285-6135	36.75	30.87

B

C. Diamond-Hard Felt Split Laps

Made of treated and pressed felt for increased durability. Max. operating speed: 3,450rpm.

Dia. x Thick x AH	Type	Item#	EACH Prices 1-5	6-11	12-71
6" x ½" x ¼"	Diamond-Hard	285-6129	$57.95	$52.16	$48.29

C

D. GMX Split Laps

Contain aluminum oxide abrasive for fast cutting. Feature unique cotton fiber and rubber bond that imparts very smooth finishes. Maximum operating speed: 6,050rpm. Made in USA.

Dia. x Thick x AH	Grit	Item#	EACH Prices 1-9	10+
6" x ¼" x ½"	80	206-3350	$30.60	$27.54
	120	206-3360	30.60	27.54
	180	206-3370	30.60	27.54
6" x ½" x ½"	80	206-3450	59.60	53.64
	120	206-3460	59.60	53.64
	180	206-3470	59.60	53.64

D

All prices subject to change without notice.

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A

A. Gesswein® Royal Gem Cloth

Our high-quality, lint-free gem cloth keeps your jewelry looking its best. Removes dust and fingerprints quickly and easily, bringing back the luster in your finest pieces. Completely free of abrasives and chemicals, so it's safe for all types of gemstones and metals. Leaves no residue behind, so it keeps your jewelry and your hands squeaky clean. Features durable construction with stitched edges that resist fraying even after repeated washing. Available in light blue and ivory.

Size	Color	Item#	EACH Prices 1-11	12+
10" x 10"	Light Blue	**820-0419**	**$5.65**	**$4.71**
	Ivory	**820-0415**	**5.65**	**4.71**

B

B. Gesswein® Rouge Cloth

Unique double polishing cloth: inner cloth is impregnated with rouge for removing tarnish; outer cloth lets you apply final polish while keeping your hands clean. Call for quotes on special imprinting with your store name (500-piece minimum). For dry use only.

Size	Item#	EACH Prices 1-11	12-143	144+
9" x 11"	**820-0050**	**$5.25**	**$4.37**	**$3.68**

C

C. Luster Cloth

Cleaner than rouge cloth, this cloth is made of soft, felt-like material with special additives that remove tarnish and dirt—plus, it actually polishes. Works on precious metals, glass, mirrors, ceramic and faceted stones. Won't scratch or stain. Leaves your hands free of chemical and rouge residues. Ideal for cleaning and polishing your own finished jewelry. Economical enough to use as giveaways for your valued customers. For dry use only.

Size	Item#	EACH Prices 1-11	12+
5" x 7½"	**820-0360**	**$2.50**	**$1.88**

D

D. 3M™ High Performance Cloth

This amazing cloth has oil- and water-absorbing fibers that lift and trap both liquid and solid contaminants. Features a specially knitted design that does a better job of cleaning than conventional wipes. Can be used dry or damp. Removes grease, silicone, solvents, abrasive residues, polishes, waxes and fingerprints. Leaves no smears or streaks and is resistant to common cleaning chemicals. Can be washed in temperatures up to 200°F. Comes in three different colors for easy assignment to specific uses.

Size	Color	Item#	EACH Prices 1-4	5-9	10+
12¾" x 14"	Blue	**820-0505**	**$6.62**	**$5.30**	**$3.97**
	White	**820-0500**	**6.62**	**5.30**	**3.97**
	Yellow	**820-0509**	**6.62**	**5.30**	**3.97**

E

E. Pads Ultra Polishing 2x2

Fast and easy, these convenient sized Ultra-Polish Pads are great for removing tarnish, highlighting when using liver of sulfur or silver black, or polishing to a high luster. Leaves no residue. They are made of thin, tight-bond foam with permanently bonded microabrasives. A handy, economical polisher that is truly amazing. Sold in packs of 20

Size	Item#	PKG. of 20
2" x 2"	**820-0380**	**$7.95**

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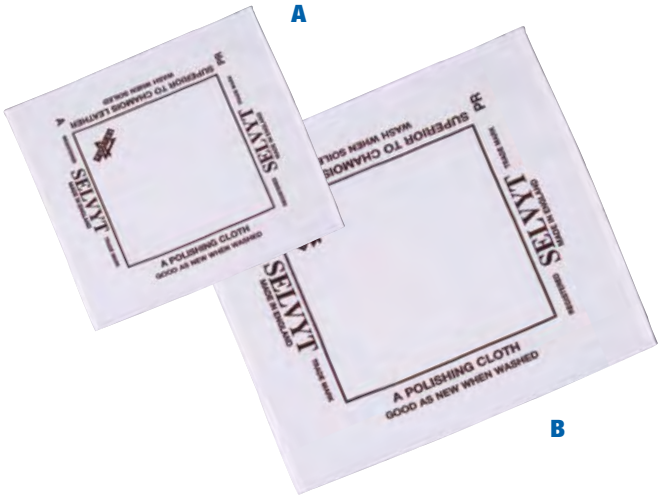
A. SELVYT® Professional Cloth

This is the original cloth which made Selvyt famous. It is finely woven cotton and very flexible, allowing easy cleaning of contours and irregular surfaces. A noticeably better quality than the "SR" and other cloths, and has a beautiful smooth nap. Removes smudges, fingerprints and dirt from metals, plastics and glass (optical lenses). Stays lint-free after repeated machine washing and the stitched edges prevent fraying. Made in UK.

Size	Item#	EACH Prices 1-11	12+
10" x 10"	**820-0270**	**$9.85**	**$8.87**
14" x 14"	**820-0275**	**12.50**	**11.25**



B. SELVYT® Microfiber Cloth

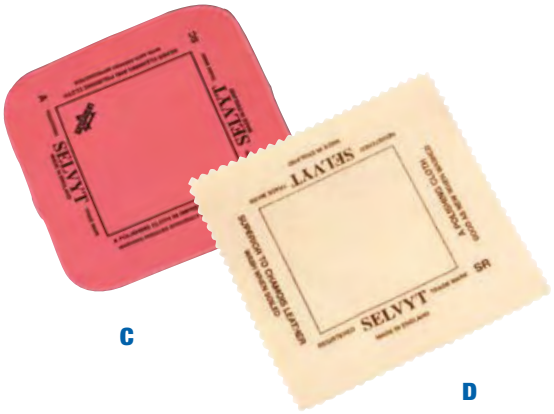
Ideal for cleaning diamonds and gemstones. Made of ultra-soft heavy brushed microfiber. Retains softness after repeated washing. Stitched edges prevent fraying. Machine washable. Made in UK.

Size	Item#	EACH Prices 1-11	12+
10" x 10"	**820-0260**	**$6.50**	**$5.85**

C. SELVYT® SC Cloth for Silver

Impregnated with an anti-tarnish agent, Selvyt SC removes light tarnish from silverware and silver jewelry. Leaves behind an invisible coating that eliminates oxidation. Stitched edges prevent fraying. Made in UK.

Size	Item#	EACH Prices 1-11	12+
10" x 10"	**820-0280**	**$7.75**	**$6.98**



D. SELVYT® SR Cloth

Made of pure unbleached cotton. Features no-lint texture that polishes without scratching. Use on precious jewelry, watches, silverware and crystal. Retains its suppleness even after repeated washing. Made in UK.

Size	Item#	EACH Prices 1-11	12+
5" x 5"	**820-0100**	**$1.90**	**$1.71**
10" x 10"	**820-0155**	**6.25**	**5.63**
14" x 14"	**820-0205**	**7.95**	**7.16**

E. SELVYT® JC Cloth

The Selvyt JC (Jewelry Cleaning) cloth is ideal for cleaning gold and most other metals such as brass, copper, platinum and silver. Manufactured in a chemically impregnated red cotton fabric, Selvyt JC is a professional's cloth that can be used at home too. Non-scratching. Edges are bound to keep them soft. Measures 10" square. Made in UK.

Size	Item#	EACH Prices 1-11	12+
10" x 10"	**820-0287**	**$7.75**	**$6.98**

F. Cape Cod Anti-Tarnish Polishing Cloth

With easy rubbing, this moist cotton cloth removes dirt and tarnish from sterling silver, gold, brass, bronze, copper, pewter, aluminum and stainless steel. Also leaves behind an invisible coating that protects against tarnish, water stains and corrosion. Keeps jewelry brighter longer. Sold in packages of two.

Size	Item#	PKG. of 2 1-11	12+
4" x 6"	**820-0370**	**$5.15**	**$4.29**

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Busch® Burs 3/32" Shank

Made of tungsten vanadium steel for strength and durability. Feature precision-machined, uniformly spaced teeth for accurate and smooth cutting.

Use with a good lubricant such as Gesswein Lube-Stik (see p. 480) to facilitate cutting and prolong tool life.

The 3/32" shanks measure approximately 1 3/4" long. Maximum operating speed varies with bur size and is indicated on each individual box. Burs packaged six to a box and available only in multiples of six unless otherwise indicated. Please consult ANSI (American National Standards Institute) for speed recommendations. Made in Germany.

Please ask for quotes on larger quantities.

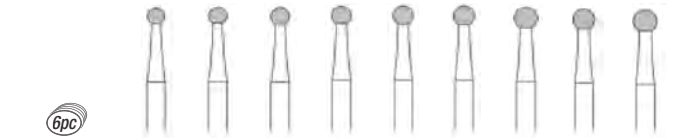
Busch® Round Burs – Fig 1

6pc

Dia. (mm)	0.30	0.35	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10
Item#	122-2008	122-2007	122-2006	122-2005	122-2004	122-2003	122-2002	122-2001	122-2010	122-3015
EACH 6-66	$3.13	3.13	1.66	0.97	0.97	0.97	0.97	0.97	0.97	0.97
EACH 72-138	$2.66	2.66	1.41	0.82	0.82	0.82	0.82	0.82	0.82	0.82

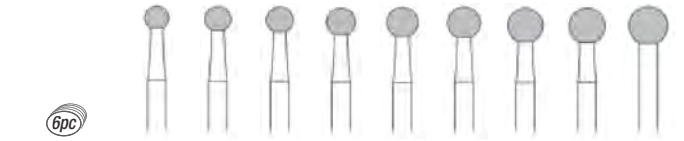
6pc

Dia. (mm)	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10
Item#	122-2020	122-3025	122-2030	122-2040	122-2050	122-3055	122-2060	122-3065	122-3066	122-2070
EACH 6-66	$0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
EACH 72-138	$0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82



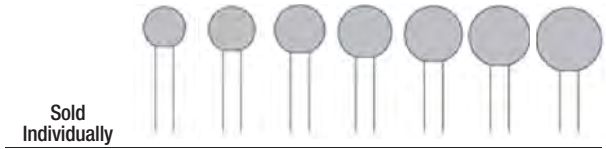
6pc

Dia. (mm)	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
Item#	122-3075	122-2080	122-3085	122-2090	122-3095	122-2100	122-2105	122-2110	122-2115
EACH 6-66	$0.97	0.97	2.02	2.02	2.02	2.02	2.02	2.02	3.08
EACH 72-138	$0.82	0.82	1.72	1.72	1.72	1.72	1.72	1.72	2.62



6pc

Dia. (mm)	3.10	3.30	3.50	3.70	4.00	4.20	4.50	4.70	5.00
Item#	122-2120	122-2130	122-2140	122-2150	122-2160	122-2170	122-2180	122-2190	122-2200
EACH 6-66	$3.08	3.08	3.08	3.08	3.91	3.91	3.91	3.91	3.91
EACH 72-138	$2.62	2.62	2.62	2.62	3.32	3.32	3.32	3.32	3.32



Sold Individually

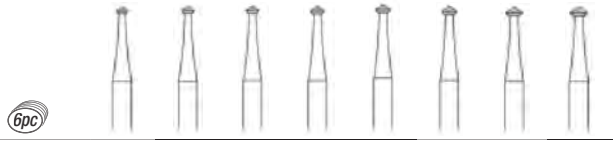
Dia. (mm)	5.50	6.00	6.50	7.00	7.50	8.00	8.50
Item#	122-2220	122-2240	122-2260	122-2280	122-2300	122-2320	122-2340
EACH 1-71	$6.62	6.62	6.62	6.62	8.23	8.23	8.23
EACH 72-143	$5.63	5.63	5.63	5.63	7.00	7.00	7.00

6pc *Six-piece minimum; Please order in multiples of six.*

Busch® 90° Hart Burs – Fig 156c

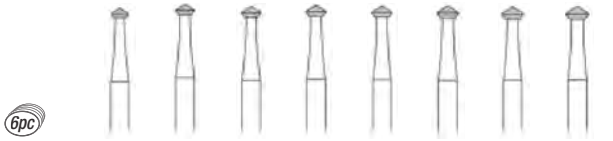
6pc

Dia. (mm)	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40
Item#	121-8997	121-8999	121-9001	121-9010	121-9315	121-9020	121-9325	121-9030
EACH 6-66	$3.22	3.22	2.71	2.71	2.71	2.71	2.71	2.71
EACH 72-138	$2.74	2.74	2.30	2.30	2.30	2.30	2.30	2.30



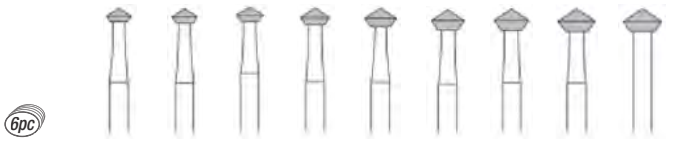
6pc

Dia. (mm)	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20
Item#	121-9040	121-9050	121-9355	121-9060	121-9062	121-9365	121-9070	121-9375
EACH 6-66	$2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71
EACH 72-138	$2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30



6pc

Dia. (mm)	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
Item#	121-9080	121-9085	121-9090	121-9095	121-9100	121-9105	121-9110	121-9115
EACH 6-66	$2.71	4.05	4.05	4.05	4.05	4.05	4.05	4.92
EACH 72-138	$2.30	3.44	3.44	3.44	3.44	3.44	3.44	4.18



6pc

Dia. (mm)	3.10	3.30	3.50	3.70	4.00	4.20	4.50	4.70	5.00
Item#	121-9120	121-9130	121-9140	121-9150	121-9160	121-9170	121-9180	121-9190	121-9200
EACH 6-66	$4.92	4.92	4.92	4.92	6.07	6.07	6.07	6.07	6.07
EACH 72-138	$4.18	4.18	4.18	4.18	5.16	5.16	5.16	5.16	5.16

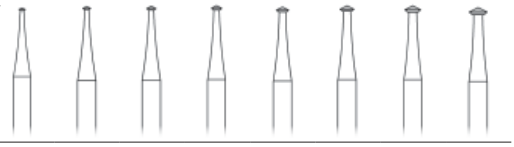
Busch® 90° Hart Bur Sets

Twelve-piece set includes 1.0, 1.2, 1.4, 1.5, 1.6, 1.8, 2.1, 2.3, 2.5, 2.7, 2.9 and 3.1mm sizes. Six-piece set includes 3.3, 3.5, 3.7, 4.0, 4.2 and 4.5mm sizes.

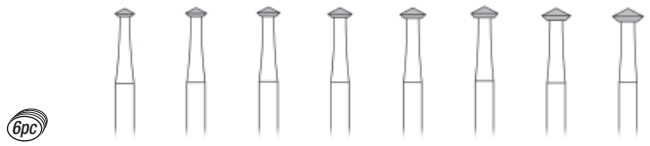
Description	Item#	Each
12-Piece Set	121-9500	$37.65
6-Piece Set	121-9550	32.15

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

Busch® 70° Hart Burs – Fig 446

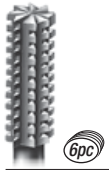


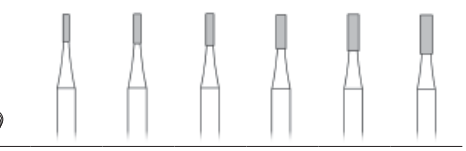
Dia. (mm)	0.90	1.00	1.20	1.40	1.60	1.80	2.10	2.30
Item#	121-8205	121-8210	121-8220	121-8230	121-8240	121-8250	121-8260	121-8270
EACH 6-66	$2.70	2.71	2.71	2.71	2.71	2.71	2.71	2.71
EACH 72-138	$2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30



Dia. (mm)	2.50	2.70	2.90	3.10	3.30	3.50	3.70	4.00
Item#	121-8280	121-8290	121-8300	121-8310	121-8320	121-8330	121-8340	121-8350
EACH 6-66	$4.05	4.05	4.05	4.92	4.92	4.92	4.92	6.07
EACH 72-138	$3.44	3.44	3.44	4.18	4.18	4.18	4.18	5.16

Busch® Square Cylinder Cross-Cut Burs – Fig 21

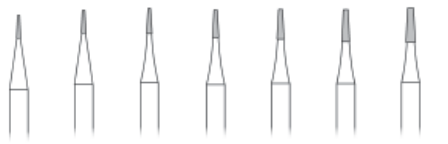




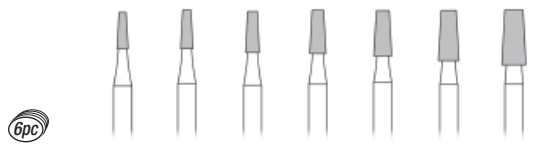
Dia. (mm)	0.80	0.90	1.00	1.20	1.40	1.60
Item#	121-4002	121-4001	121-4010	121-4020	121-4030	121-4050
EACH 6-66	$1.47	1.47	1.47	1.47	1.47	1.47
EACH 72-138	$1.25	1.25	1.25	1.25	1.25	1.25

Dia. (mm)	1.80	2.10	2.30	2.70	3.10
Item#	121-4060	121-4070	121-4080	121-4100	121-4120
EACH 6-66	$1.47	1.47	1.47	3.04	3.40
EACH 72-138	$1.25	1.25	1.25	2.58	2.89

Busch® Square Cone Cross-Cut Burs – Fig 23 *Fig 38S



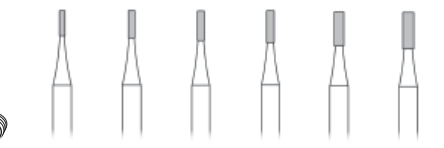
Dia. (mm)	0.50	0.60	0.70	0.80	0.90	1.00	1.20
Item#	121-5005*	121-5004*	121-5003	121-5002	121-5001	121-5010	121-5020
EACH 6-66	$2.02	1.47	1.47	1.47	1.47	1.47	1.47
EACH 72-138	$1.72	1.25	1.25	1.25	1.25	1.25	1.25



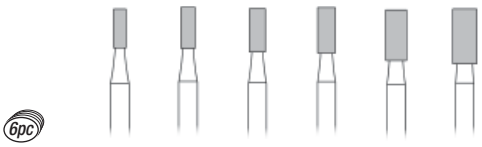
Dia. (mm)	1.40	1.60	1.80	2.10	2.30	2.70	3.10
Item#	121-5030	121-5050	121-5060	121-5070	121-5080	121-5100	121-5120
EACH 6-66	$1.47	1.47	1.47	1.47	1.47	3.04	3.40
EACH 72-138	$1.25	1.25	1.25	1.25	1.25	2.58	2.89

**Fig 38S signifies reinforced neck*

Busch® Square Cylinder Burs – Fig 15



Dia. (mm)	0.70	0.80	0.90	1.00	1.20	1.40
Item#	121-2003	121-2002	121-2001	121-2010	121-2020	121-2030
EACH 6-66	$1.47	1.47	1.47	1.47	1.47	1.47
EACH 72-138	$1.25	1.25	1.25	1.25	1.25	1.25



Dia. (mm)	1.60	1.80	2.10	2.30	2.70*	3.10
Item#	121-2050	121-2060	121-2070	121-2080	121-2090	121-2120
EACH 6-66	$1.47	1.47	1.47	1.47	1.47	3.40
EACH 72-138	$1.25	1.25	1.25	1.25	1.25	2.89

**This particular item is NOT manufactured by Busch, when required we are supplying a Panther Bur of similar quality and also made in Germany.*

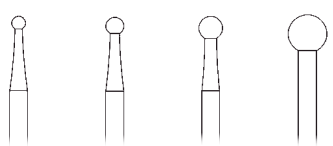
Busch® Square Cone Burs – Fig 17

Dia. (mm)	0.70	0.80	0.90	1.00	1.20	1.40	1.60	1.80
Item#	121-3003	121-3002	121-3001	121-3010	121-3020	121-3030	121-3050	121-3060
EACH 6-66	$1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
EACH 72-138	$1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25

6pc *Six-piece minimum; Please order in multiples of six.*

Busch® Wax/Plastic Burs – Fig 260a

Sold Individually



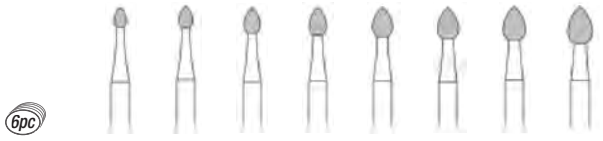
Dia. (mm)	1.80	2.30	3.10	5.00
Item#	121-8170	121-8180	121-8190	121-8200
EACH 1-71	$4.19	4.19	6.90	8.28
EACH 72-143	$3.56	3.56	5.87	7.04

All prices subject to change without notice.

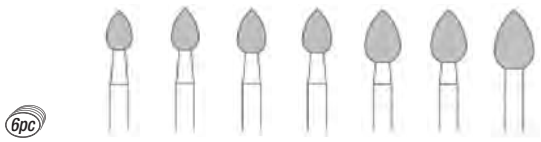
Busch®

Busch® Bud Burs – Fig 6

Dia. (mm)	0.60	0.70	0.80	0.90	1.00	1.20	1.40	1.50
Item#	121-0004	121-0003	121-0002	121-0001	121-0010	121-0020	121-0030	121-0040
EACH 6-66	$1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
EACH 72-138	$0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94

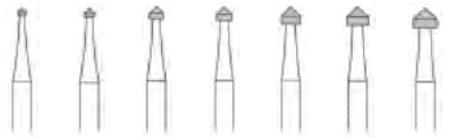


Dia. (mm)	1.60	1.80	2.10	2.30	2.50	2.70	2.90	3.10
Item#	121-0050	121-0060	121-0070	121-0080	121-0090	121-0100	121-0110	121-0120
EACH 6-66	$1.10	1.10	1.10	1.10	2.39	2.39	2.39	3.36
EACH 72-138	$0.94	0.94	0.94	0.94	2.03	2.03	2.03	2.86



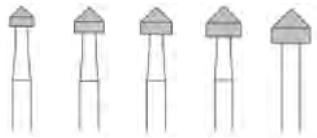
Dia. (mm)	3.30	3.50	3.70	4.00	4.20	4.50	5.00
Item#	121-0130	121-0140	121-0150	121-0160	121-0170	121-0180	121-0200
EACH 6-66	$3.36	3.36	3.36	4.28	4.28	4.28	4.28
EACH 72-138	$2.86	2.86	2.86	3.64	3.64	3.64	3.64

Busch® Setting Burs – Fig 413



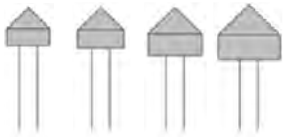
Dia. (mm)	1.00	1.25	1.75	2.00	2.25	2.50	2.75
Item#	121-8360	121-8370	121-8380	121-8390	121-8400	121-8410	121-8420
EACH 6-66	$2.76	2.76	2.76	2.76	2.76	4.14	4.14
EACH 72-138	$2.35	2.35	2.35	2.35	2.35	3.52	3.52

Sold Individually



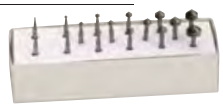
Dia. (mm)	3.00	3.75	4.00	4.50	5.00
Item#	121-8430	121-8440	121-8450	121-8470	121-8490
EACH 1-71	$5.38	5.38	6.80	6.80	6.80
EACH 72-143	$4.57	4.57	5.78	5.78	5.78

Sold Individually



Dia. (mm)	5.50	6.00	7.00	8.00
Item#	121-8510	121-8520	121-8530	121-8540
EACH 1-71	$7.83	7.83	7.83	9.43
EACH 72-143	$6.66	6.66	6.66	8.02

Description	Item#	Each
16-Piece Set (one each)	121-8541	$79.00



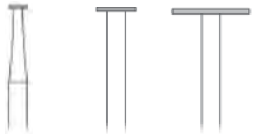
Busch® Wheels – Fig 2

Dia. (mm)	0.70	0.80	0.90	1.00	1.20	1.40	1.60	1.80
Item#	122-4003	122-4002	122-4001	122-4010	122-4020	122-4030	122-4050	122-4060
EACH 6-66	$0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
EACH 72-138	$0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82

Dia. (mm)	2.10	2.30	2.50	2.70	2.90	4.00	4.50	5.00
Item#	122-4070	122-4080	122-4090	122-4100	122-4110	122-4160	122-4180	122-4200
EACH 6-66	$0.97	0.97	2.02	2.02	2.02	3.91	3.91	3.91
EACH 72-138	$0.82	0.82	1.72	1.72	1.72	3.32	3.32	3.32

Busch® Saws – Fig 231S

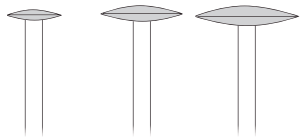
Sold Individually



Dia. (mm)	2.30	5.00	10.00
Item#	121-8025	121-8050	121-8100
EACH 1-71	$2.48	5.84	12.24
EACH 72-143	$2.11	4.96	10.40

Busch® Knife-Edge Routers – Fig 161

Sold Individually

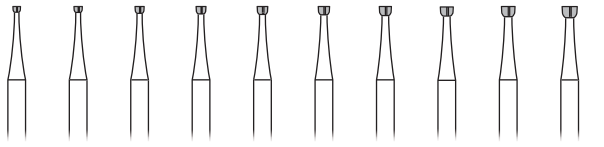


Dia. (mm)	7.00	10.00	14.00
Item#	121-7070	121-7100	121-7140
EACH 1-71	$15.55	22.08	27.78
EACH 72-143	$13.22	18.77	23.61

6pc *Six-piece minimum; Please order in multiples of six.*

Busch® Twin-Cut Cup Burs – Fig 411T

Unique cup burs for fast and safe prong shaping. Feature twin-cut blade geometry for shortening, rounding and burnishing prongs in a single step. Allow easy metal discharge through two slits.



Dia. (mm)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	2.00
Item#	121-1530	121-1531	121-1532	121-1533	121-1534	121-1535	121-1536	121-1537	121-1538	121-1540
EACH 6-66	$3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
EACH 72-138	$2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85

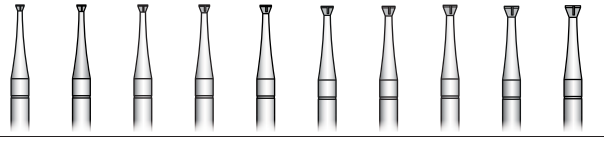
Busch® Fast-Cut Cup Burs – Fig 411C

Feature slim blade design for faster cutting, ensuring long bur life. Ideal when prongs are close together.

Dia. (mm)	1.00	1.20	1.40	1.50	1.60	1.80	2.10	2.30
Item#	121-1410	121-1420	121-1430	121-1440	121-1450	121-1460	121-1470	121-1480
EACH 6-66	$2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
EACH 72-138	$2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40

Busch® Fast-Cut Twin-Cut Cup Burs – Fig 411CT

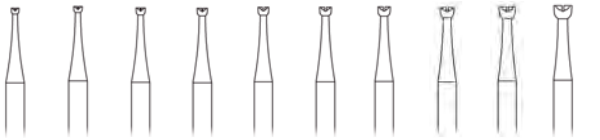
Fantastic combination of slim blade design Fast-cut burs with twin-cut blade geometry. Two slits eliminate clogging to cut easier and maintain tooth edges longer.



Dia. (mm)	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
Item#	121-1551	121-1552	121-1553	121-1554	121-1555	121-1556	121-1557	121-1558	121-1559	121-1560
EACH 6-66	$3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
EACH 72-138	$2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85

Busch® Clean-Cut Cup Burs – Fig 411CCC

Feature four slits for allowing metal particles to fall out. Eliminate clogging to cut easier and maintain tooth edges longer.



Dia. (mm)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.80	2.10	2.30
Item#	121-1510	121-1511	121-1512	121-1513	121-1514	121-1515	121-1516	121-1518	121-1521	121-1523
EACH 6-66	$3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
EACH 72-138	$2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58

Description	Item#	Each
10-Piece Set (one each)	121-1524	$31.88

Six-piece minimum; Please order in multiples of six.

Busch® Cup Burs – Fig 77b

Uniformly spaced teeth for accurate and smooth cutting.

Dia. (mm)	0.90	1.00	1.20	1.40	1.50	1.60	1.80
Item#	121-1001	121-1010	121-1020	121-1030	121-1040	121-1050	121-1060
EACH 6-66	$2.82	2.82	2.82	2.82	2.82	2.82	2.82
EACH 72-138	$2.40	2.40	2.40	2.40	2.40	2.40	2.40

Dia. (mm)	2.10	2.30	2.50	2.70	2.90	3.10
Item#	121-1070	121-1080	121-1090	121-1100	121-1110	121-1120
EACH 6-66	$2.82	2.82	4.78	4.78	4.78	6.44
EACH 72-138	$2.40	2.40	4.06	4.06	4.06	5.47

Description	Item#	Each
12-Piece Set (one each, except 0.90mm)	121-1130	$43.29

Busch® Pointed Burs – Fig 5

Dia. (mm)	0.90	1.00	1.20	1.40	1.60	1.80	2.10
Item#	122-1001	122-1010	122-1020	122-1030	122-1050	122-1060	122-1070
EACH 6-66	$1.10	1.10	1.10	1.10	1.10	1.10	1.10
EACH 72-138	$0.94	0.94	0.94	0.94	0.94	0.94	0.94

Dia. (mm)	2.30	2.50	2.70	2.90	3.10	3.30
Item#	122-1080	122-1090	122-1100	122-1110	122-1120	122-1130
EACH 6-66	$1.10	2.39	2.39	2.39	3.36	3.36
EACH 72-138	$0.94	2.03	2.03	2.03	2.86	2.86

Dia. (mm)	3.50	3.70	4.00	4.50	4.70	5.00
Item#	122-1140	122-1150	122-1160	122-1180	122-1190	122-1200
EACH 6-66	$3.36	3.36	4.28	4.28	4.28	4.28
EACH 72-138	$2.86	2.86	3.64	3.64	3.64	3.64

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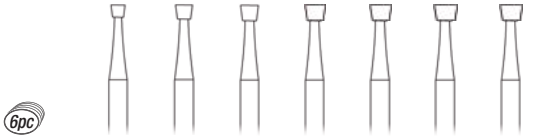
Busch®

Busch® Inverted Cone Burs – Fig 3

6pc ÷

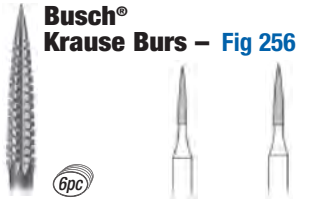
Dia. (mm)	0.70	0.80	0.90	1.00	1.20	1.40	1.60
Item#	122-0003	122-0002	122-0001	122-0010	122-0020	122-0030	122-0050
EACH 6-66	$0.97	0.97	0.97	0.97	0.97	0.97	0.97
EACH 72-138	$0.82	0.82	0.82	0.82	0.82	0.82	0.82



6pc

Dia. (mm)	1.80	2.10	2.30	2.70	2.90	3.10	3.70
Item#	122-0060	122-0070	122-0080	122-0100	122-0110	122-0120	122-0150
EACH 6-66	$0.97	0.97	0.97	2.02	2.02	3.08	3.08
EACH 72-138	$0.82	0.82	0.82	1.72	1.72	2.62	2.62

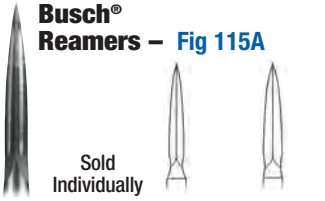
Busch® Krause Burs – Fig 256



6pc

Dia. (mm)	1.00	1.20
Item#	122-6010	122-6020
EACH 6-66	$3.15	3.15
EACH 72-138	$2.68	2.68

Busch® Reamers – Fig 115A



Sold Individually

Dia. (mm)	1.80	2.30
Item#	122-7130	122-7132
EACH 1-71	$6.99	6.99
EACH 72-143	$5.94	5.94

Busch® Carbide Starlight Polishers

Made of the finest carbide. Impart a unique high gloss on precious metals such as gold and platinum. Have 3/32" shanks

Shown actual size

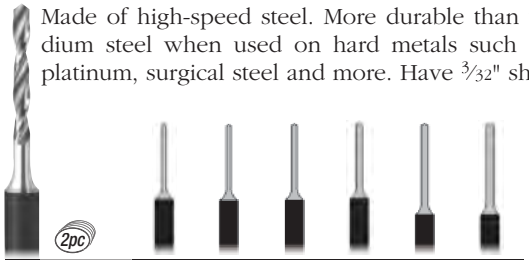
Type	Point	Barrel	Cylinder	Cone
Item#	122-7135	122-7133	122-7136	122-7134
EACH	$34.78	47.66	34.78	47.60

Description	Item#	Each
4-Piece Set (one each)	122-7137	$153.00

Use at 25,000-35,000rpm for best results.

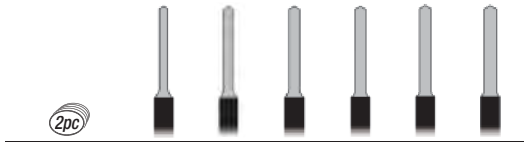
Busch® High-Speed Twist Drills – Fig 203HSS

Made of high-speed steel. More durable than tungsten vanadium steel when used on hard metals such as white gold, platinum, surgical steel and more. Have 3/32" shanks.



2pc

Dia. (mm)	0.50	0.60	0.70	0.80	0.90	1.00
Item#	122-6992	122-6993	122-6994	122-6995	122-6996	122-6997
EACH 2-70	$5.95	5.95	5.95	5.95	5.95	5.95
EACH 72-142	$5.06	5.06	5.06	5.06	5.06	5.06

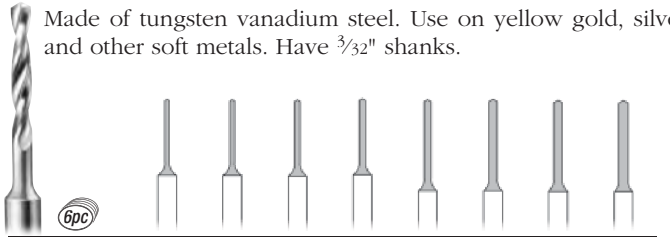


2pc

Dia. (mm)	1.10	1.20	1.30	1.40	1.50	1.60
Item#	122-6998	122-6999	122-7000	122-7001	122-7002	122-7003
EACH 2-70	$5.95	5.95	5.95	5.95	5.95	5.95
EACH 72-142	$5.06	5.06	5.06	5.06	5.06	5.06

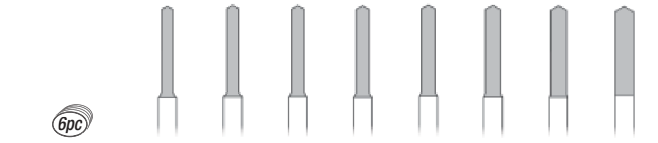
Busch® Twist Drills – Fig 77

Made of tungsten vanadium steel. Use on yellow gold, silver and other soft metals. Have 3/32" shanks.



6pc

Dia. (mm)	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
Item#	122-7005	122-7006	122-7007	122-7008	122-7009	122-7010	122-7011	122-7012
EACH 6-66	$2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39
EACH 72-138	$2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03



6pc

Dia. (mm)	1.40	1.50	1.60	1.70	1.80	1.90	2.10	2.30
Item#	122-7014	122-7015	122-7016	122-7017	122-7018	122-7019	122-7021	122-7023
EACH 6-66	$2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39
EACH 72-138	$2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03

Busch® Twist Drill Set – Fig 77

Includes 0.6, 0.7, 0.8, 0.9, 1.0, 1.2, 1.4, 1.5, 1.6, 1.8, 2.1 and 2.3mm sizes. Have 3/32" shanks.

Description	Item#	Each
12-Piece Set	122-7030	$28.65

6pc *Six-piece minimum; Please order in multiples of six.* 2pc *Two-piece minimum; Please order in multiples of*

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MAILLEFER Swiss Burs 3/32" Shank

MAILLEFER

Top quality precision burs manufactured in Switzerland Made of the best and long-lasting tungsten vanadium steel. Sold and priced in packages of six. Save money with these valued priced burs. Please consult ANSI (American National Standards Institute) for speed recommendations. **Please ask for quotes on larger quantities.**

Swiss Round Burs

Dia. (mm)	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20
Item#	122-8080	122-8081	122-8082	122-8083	122-8084	122-8085	122-8086	122-8087
PKG of Six 1-2	$3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85
PKG of Six 3-5	$3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54

Dia. (mm)	1.30	1.40	1.50	1.60	1.70	1.80	1.90
Item#	122-8088	122-8089	122-8090	122-8091	122-8092	122-8093	122-8094
PKG of Six 1-2	$3.85	3.85	3.85	3.85	3.85	3.85	3.85
PKG of Six 3-5	$3.54	3.54	3.54	3.54	3.54	3.54	3.54

Dia. (mm)	2.00	2.10	2.20	2.30	2.40	2.50	2.60
Item#	122-8095	122-8097	122-8098	122-8099	122-8100	122-8101	122-8102
PKG of Six 1-2	$3.85	3.85	3.85	3.85	8.20	8.20	8.20
PKG of Six 3-5	$3.54	3.54	3.54	3.54	7.54	7.54	7.54

A. Swiss Deluxe Bur Set

Includes (13) Round sizes 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.2, 1.4, 1.5, 1.6, 1.8, 2.1 and 2.3. (9) 90° Hart sizes 0.9, 1.0, 1.2, 1.4, 1.5, 1.6, 1.8, 2.1, and all nine Cup and both Krause burs. Packaged in an attractive wooden box.

Description	Item#	Each
33-Piece Set	122-8005	$48.95

Swiss 90° Hart Burs

Dia. (mm)	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70
Item#	122-8050	122-8051	122-8052	122-8053	122-8054	122-8055	122-8056	122-8057	122-8058
PKG of Six 1-2	$11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
PKG of Six 3-5	$10.86	10.86	10.86	10.86	10.86	10.86	10.86	10.86	10.86

Dia. (mm)	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60
Item#	122-8059	122-8060	122-8061	122-8062	122-8063	122-8064	122-8065	122-8066	122-8067
PKG of Six 1-2	$11.80	11.80	11.80	11.80	11.80	11.80	17.20	17.20	17.20
PKG of Six 3-5	$10.86	10.86	10.86	10.86	10.86	10.86	15.82	15.82	15.82

B. Reducing Collets

Convert your 1/8" or 3mm handpiece collets to hold 3/32" shank tools. Easy to use: slip the reducing collet into your handpiece collet, then slip the tool into the reducing collet. Make sure the reducing collet and the tool are fully inserted before operating.

Description	Item#	Each
1/8"–3/32" Collet	816-1501	$14.90
3mm–3/32" Collet	816-1504	$14.90

B

Swiss Cup Burs

Dia. (mm)	0.90	1.00	1.20	1.40	1.50	1.60	1.80	2.10	2.30
Item#	122-8010	122-8011	122-8013	122-8016	122-8017	122-8018	122-8022	122-8024	122-8026
PKG of Six 1-2	$11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
PKG of Six 3-5	$10.86	10.86	10.86	10.86	10.86	10.86	10.86	10.86	10.86

9-Piece Set (one each) 122-8045 $15.90

C. Gesswein® Lube-Stik

Use on grinding, cutting, drilling, piercing or similar tools to speed up production and increase tool life. Reduces both friction and heat buildup so that tools stay sharper, work faster and cut smoother. Easy to use: just run your tools into the soft lubricant every so often. Can also be used to reduce the effort needed for drawing operations. Supplied in handy push-up dispenser tube.

Description	Item#	EACH Prices 1-9	10+
Lube-Stik	816-2460	$5.25	$4.73

C

Swiss Krause Burs

Use these burs when setting to remove metal for seating the points of marquis, pear, heart and other fancy cut diamonds.

Dia. (mm)	1.00	1.20
Item#	122-8006	122-8007
PKG of Six 1-2	$10.50	10.50
PKG of Six 3-5	$9.66	9.66

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Cup Burs 3/32" Shank

Cup burs are used to quickly and easily remove burs and round off the ends of wires and prongs. Much easier than using a file. Measurements are taken from the outside of the head, so good rule of thumb is to select a bur 2 sizes larger than the wire or prong you are using. Please consult ANSI (American National Standards Institute) for speed recommendations.

Busch® Twin-Cut Cup Burs – Fig 411T

Unique cup burs for fast and safe prong shaping. Feature twin-cut blade geometry for shortening, rounding and burnishing prongs in a single step. Allow easy metal discharge through two slits.

Dia. (mm)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	2.00
Item#	121-1530	121-1531	121-1532	121-1533	121-1534	121-1535	121-1536	121-1537	121-1538	121-1540
EACH 6-66	$3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
EACH 72-138	$2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85

C. Busch® Fast-Cut Cup Burs – Fig 411C

Feature slim blade design for faster cutting, ensuring long bur life. Ideal when prongs are close together.

Dia. (mm)	1.00	1.20	1.40	1.50	1.60	1.80	2.10	2.30
Item#	121-1410	121-1420	121-1430	121-1440	121-1450	121-1460	121-1470	121-1480
EACH 6-66	$2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
EACH 72-138	$2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40

Busch® Fast-Cut Twin-Cut Cup Burs – Fig 411CT

Fantastic combination of slim blade design Fast-cut burs with twin-cut blade geometry. Two slits eliminate clogging to cut easier and maintain tooth edges longer.

Dia. (mm)	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
Item#	121-1551	121-1552	121-1553	121-1554	121-1555	121-1556	121-1557	121-1558	121-1559	121-1560
EACH 6-66	$3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
EACH 72-138	$2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85

Busch® Clean-Cut Cup Burs – Fig 411CCC

Feature four slits for allowing metal particles to fall out. Eliminate clogging to cut easier and maintain tooth edges longer.

Dia. (mm)	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.80	2.10	2.30
Item#	121-1510	121-1511	121-1512	121-1513	121-1514	121-1515	121-1516	121-1518	121-1521	121-1523
EACH 6-66	$3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
EACH 72-138	$2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58

Description	Item#	Each
10-Piece Set (one each)	121-1524	$31.88

Six-piece minimum; Please order in multiples of six.

Busch® Cup Burs – Fig 77b

Uniformly spaced teeth for accurate and smooth cutting.

Dia. (mm)	0.90	1.00	1.20	1.40	1.50	1.60	1.80
Item#	121-1001	121-1010	121-1020	121-1030	121-1040	121-1050	121-1060
EACH 6-66	$2.82	2.82	2.82	2.82	2.82	2.82	2.82
EACH 72-138	$2.40	2.40	2.40	2.40	2.40	2.40	2.40

Dia. (mm)	2.10	2.30	2.50	2.70	2.90	3.10
Item#	121-1070	121-1080	121-1090	121-1100	121-1110	121-1120
EACH 6-66	$2.82	2.82	4.78	4.78	4.78	6.44
EACH 72-138	$2.40	2.40	4.06	4.06	4.06	5.47

Description	Item#	Each
12-Piece Set (one each, except 0.90mm)	121-1130	$43.29

Fox® Champion Cup Burs – No teeth, two slits

Tooth-free cups that burnish rather than cut. Two slits allow metal particles to escape. To finish & polish prongs at the same time.

Dia. (mm)	0.90	1.00	1.10	1.20	1.30	1.40
Item#	124-7039	124-7040	124-7041	124-7042	124-7043	124-7044
EACH 6-66	$2.25	2.25	2.25	2.25	2.25	2.25
EACH 72-138	$1.91	1.91	1.91	1.91	1.91	1.91

Dia. (mm)	1.50	1.60	1.70	1.80	2.10	2.30
Item#	124-7045	124-7046	124-7047	124-7048	124-7050	124-7051
EACH 6-66	$2.25	2.25	2.25	2.28	2.25	2.25
EACH 72-138	$1.91	1.91	1.91	1.94	1.91	1.91

Description	Item#	Each
6-Piece Set (1.0, 1.2, 1.4, 1.6, 1.8, 2.1mm)	124-7052	$13.50

MAILLEFER Swiss Cup Burs

Precision engineered and economically priced. Made in Switzerland.

Dia. (mm)	0.90	1.00	1.20	1.40	1.50	1.60	1.80	2.10	2.30
Item#	122-8010	122-8011	122-8013	122-8016	122-8017	122-8018	122-8022	122-8024	122-8026
PKG of Six 1-2	$11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80	11.80
PKG of Six 3-5	$10.86	10.86	10.86	10.86	10.86	10.86	10.86	10.86	10.86

Description	Item#	Each
9-Piece Set (one each)	122-8045	$15.90

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High Speed Burs 3/32" Shank

Made of extremely rugged high-speed steel to withstand heat buildup under the most extreme conditions. On average our High Speed burs have 20% more fluting than other brands which creates a fine surface finish. Cut faster and last longer than vanadium steel dental burs. Please consult ANSI (American National Standards Institute) for speed recommendations. Made in USA.

High-Speed Round Burs

Size	1	2	3	4	5	6	7	8	9	10	11	12
Dia. (mm)	0.90	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10
Item#	**123-8010**	**123-8020**	**123-8030**	**123-8040**	**123-8050**	**123-8060**	**123-8070**	**123-8080**	**123-8090**	**123-8100**	**123-8110**	**123-8120**
EACH 1-5	**$3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**4.15**	**4.15**	**4.15**	**4.15**
EACH 6+	**$3.09**	**3.09**	**3.09**	**3.09**	**3.09**	**3.09**	**3.09**	**3.09**	**3.49**	**3.49**	**3.49**	**3.49**

Size	13	14	15	16	17	18	19	20	22	23	24
Dia. (mm)	3.30	3.50	3.80	4.00	4.30	4.50	4.70	5.00	5.20	5.40	5.60
Item#	**123-8130**	**123-8140**	**123-8150**	**123-8160**	**123-8170**	**123-8180**	**123-8190**	**123-8200**	**123-8220**	**123-8230**	**123-8240**
EACH 1-5	**$4.95**	**4.95**	**4.95**	**4.95**	**4.95**	**4.95**	**5.95**	**5.95**	**5.95**	**5.95**	**5.95**
EACH 6+	**$4.16**	**4.16**	**4.16**	**4.16**	**4.16**	**4.16**	**5.00**	**5.00**	**5.00**	**5.00**	**5.00**

Size	25	26	27	28	29	30	31	32	33	34
Dia. (mm)	5.90	6.30	6.70	7.20	7.60	8.00	8.90	9.60	10.40	11.10
Item#	**123-8250**	**123-8260**	**123-8270**	**123-8280**	**123-8290**	**123-8300**	**123-8310**	**123-8320**	**123-8330**	**123-8340**
EACH 1-5	**$5.95**	**6.98**	**6.98**	**6.98**	**6.98**	**6.98**	**8.55**	**8.55**	**9.29**	**9.29**
EACH 6+	**$5.00**	**5.86**	**5.86**	**5.86**	**5.86**	**5.86**	**7.18**	**7.18**	**7.80**	**7.80**

High-Speed 45° Hart Burs

Size	2	3	4	5	6	7	8	9	10
Dia. (mm)	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50	2.70
Item#	**123-5020**	**123-5030**	**123-5040**	**123-5050**	**123-5060**	**123-5070**	**123-5080**	**123-5090**	**123-5100**
EACH 1-5	**$3.80**	**3.80**	**3.80**	**3.80**	**3.80**	**3.80**	**3.80**	**4.89**	**4.89**
EACH 6+	**$3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**4.11**	**4.11**

Size	11	12	13	14	15	16	17	18
Dia. (mm)	2.90	3.10	3.30	3.50	3.80	4.00	4.30	4.50
Item#	**123-5110**	**123-5120**	**123-5130**	**123-5140**	**123-5150**	**123-5160**	**123-5170**	**123-5180**
EACH 1-5	**$4.89**	**4.89**	**5.88**	**5.88**	**5.88**	**5.88**	**5.88**	**5.88**
EACH 6+	**$4.11**	**4.11**	**4.94**	**4.94**	**4.94**	**4.94**	**4.94**	**4.94**

Size	19	20	22	24	26	28	30	34
Dia. (mm)	4.70	5.00	5.20	5.60	6.30	7.20	8.00	11.10
Item#	**123-5190**	**123-5200**	**123-5220**	**123-5240**	**123-5260**	**123-5280**	**123-5300**	**123-5340**
EACH 1-5	**$6.65**	**6.65**	**6.65**	**6.65**	**6.98**	**6.98**	**6.98**	**9.29**
EACH 6+	**$5.59**	**5.59**	**5.59**	**5.59**	**5.86**	**5.86**	**5.86**	**7.80**

A

A. High-Speed Round Bur Sets

Five convenient sets all in wooden boxes.

Bur Qty.	Sizes	Item#	Each
18	1–18	**124-4111**	**$76.35**
25	1–26	**124-4112**	**105.45**
29	1–30	**124-4113**	**128.39**
33	1–34	**124-4114**	**144.05**
36	1–12 (3 each)	**124-4115**	**124.85**

B

B. High-Speed 45° Hart Bur Sets

Select between four convenient sets all in wooden boxes.

Bur Qty.	Sizes	Item#	Each
17	2–18	**124-4551**	**$77.60**
14	2–28 (evens)	**124-4552**	**76.39**
24	2–30	**124-4553**	**120.00**
33	2–12 (3 each)	**124-4554**	**129.68**

C

C. Reducing Collets

Convert your 1/8" or 3mm handpiece collet to hold 3/32" shank tools. Easy to use: slip the reducing collet into your handpiece collet, then slip the tool into the reducing collet. Make sure the reducing collet and the tool are fully inserted before operating.

Description	Item#	Each
1/8"–3/32" Collet	**816-1501**	**$14.90**
3mm–3/32" Collet	**816-1504**	**14.90**

All prices subject to change without notice.

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

High Speed Burs continued.

A

A. High-Speed 90° Bearing Bur Sets

Select between five sets all in wooden boxes.

Bur Qty.	Sizes	Item#	Each
18	1–18	**124-4441**	**$84.85**
25	1–26	**124-4442**	**120.10**
14	2–28 (evens)	**124-4443**	**76.39**
33	1–34	**124-4444**	**166.80**
36	1–12 (3 each)	**124-4445**	**138.20**

High-Speed 90° Bearing Burs

Size	1	2	3	4	5	6	7	8	9	10	11	12
Dia. (mm)	0.90	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10
Item#	**123-0010**	**123-0020**	**123-0030**	**123-0040**	**123-0050**	**123-0060**	**123-0070**	**123-0080**	**123-0090**	**123-0100**	**123-0110**	**123-0120**
EACH 1-5	**$3.80**	**3.80**	**3.80**	**3.80**	**3.80**	**3.80**	**3.80**	**3.80**	**4.88**	**4.88**	**4.88**	**4.88**
EACH 6+	**$3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**3.19**	**4.10**	**4.10**	**4.10**	**4.10**

Size	13	14	15	16	17	18	19	20	22	23	24
Dia. (mm)	3.30	3.50	3.80	4.00	4.30	4.50	4.70	5.00	5.20	5.40	5.60
Item#	**123-0130**	**123-0140**	**123-0150**	**123-0160**	**123-0170**	**123-0180**	**123-0190**	**123-0200**	**123-0220**	**123-0230**	**123-0240**
EACH 1-5	**$5.88**	**5.88**	**5.88**	**5.88**	**5.88**	**5.88**	**6.65**	**6.65**	**6.65**	**6.65**	**6.65**
EACH 6+	**$4.94**	**4.94**	**4.94**	**4.94**	**4.94**	**4.94**	**5.59**	**5.59**	**5.59**	**5.59**	**5.59**

Size	25	26	27	28	29	30	31	32	33	34
Dia. (mm)	5.90	6.30	6.70	7.20	7.60	8.00	8.90	9.60	10.40	11.10
Item#	**123-0250**	**123-0260**	**123-0270**	**123-0280**	**123-0290**	**123-0300**	**123-0310**	**123-0320**	**123-0330**	**123-0340**
EACH 1-5	**$6.65**	**6.98**	**6.98**	**6.98**	**6.98**	**6.98**	**8.55**	**8.55**	**9.29**	**9.29**
EACH 6+	**$5.59**	**5.86**	**5.86**	**5.86**	**5.86**	**5.86**	**7.18**	**7.18**	**7.80**	**7.80**

B

B. High-Speed Setting Bur Sets

Four convenient sets all in wooden boxes.

Bur Qty.	Sizes	Item#	Each
18	1–18	**124-4661**	**$85.25**
25	1–26	**124-4662**	**120.10**
29	1–30	**124-4663**	**146.15**
33	1–34	**124-4664**	**166.80**

High-Speed Setting Burs

Size	1	2	3	4	5	6	7	8	9	10	11	12
Dia. (mm)	0.90	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10
Item#	**124-0010**	**124-0020**	**124-0030**	**124-0040**	**124-0050**	**124-0060**	**124-0070**	**124-0080**	**124-0090**	**124-0100**	**124-0110**	**124-0120**
EACH 1-5	**$3.85**	**3.85**	**3.85**	**3.85**	**3.85**	**3.85**	**3.85**	**3.85**	**3.85**	**4.89**	**4.89**	**4.89**
EACH 6+	**$3.23**	**3.23**	**3.23**	**3.23**	**3.23**	**3.23**	**3.23**	**3.23**	**3.23**	**4.11**	**4.11**	**4.11**

Size	13	14	15	16	17	18	19	20	22	23	24
Dia. (mm)	3.30	3.50	3.80	4.00	4.30	4.50	4.70	5.00	5.20	5.40	5.60
Item#	**124-0130**	**124-0140**	**124-0150**	**124-0160**	**124-0170**	**124-0180**	**124-0190**	**124-0200**	**124-0220**	**124-0230**	**124-0240**
EACH 1-5	**$5.88**	**5.88**	**5.88**	**5.88**	**5.88**	**5.88**	**5.88**	**6.65**	**6.65**	**6.65**	**6.65**
EACH 6+	**$4.94**	**4.94**	**4.94**	**4.94**	**4.94**	**4.94**	**4.94**	**5.59**	**5.59**	**5.59**	**5.59**

Size	25	26	27	28	29	30	31	32	33	34
Dia. (mm)	5.90	6.30	6.70	7.20	7.60	8.00	8.90	9.60	10.40	11.10
Item#	**124-0250**	**124-0260**	**124-0270**	**124-0280**	**124-0290**	**124-0300**	**124-0310**	**124-0320**	**124-0330**	**124-0340**
EACH 1-5	**$6.65**	**6.98**	**6.98**	**6.98**	**6.98**	**6.98**	**8.55**	**8.55**	**9.29**	**9.29**
EACH 6+	**$5.59**	**5.86**	**5.86**	**5.86**	**5.86**	**5.86**	**7.18**	**7.18**	**7.80**	**7.80**

High-Speed Bud Burs

Size	2	3	4	5	6	7	8	9	10	11	12	13
Dia. (mm)	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10	3.30
Item#	**123-1020**	**123-1030**	**123-1040**	**123-1050**	**123-1060**	**123-1070**	**123-1080**	**123-1090**	**123-1100**	**123-1110**	**123-1120**	**123-1130**
EACH 1-5	**$3.50**	**3.50**	**3.50**	**3.68**	**3.68**	**3.68**	**3.68**	**4.15**	**4.15**	**4.15**	**4.15**	**4.95**
EACH 6+	**$2.94**	**2.94**	**2.94**	**3.09**	**3.09**	**3.09**	**3.09**	**3.49**	**3.49**	**3.49**	**3.49**	**4.16**

Size	14	16	18	20	22	24	26	28	30	32	34
Dia. (mm)	3.50	4.00	4.50	5.00	5.20	5.60	6.30	7.20	8.00	9.60	11.10
Item#	**123-1140**	**123-1160**	**123-1180**	**123-1200**	**123-1220**	**123-1240**	**123-1260**	**123-1280**	**123-1300**	**123-1320**	**123-1340**
EACH 1-5	**$4.95**	**4.95**	**4.95**	**5.95**	**5.95**	**5.95**	**6.98**	**6.98**	**6.98**	**8.55**	**9.29**
EACH 6+	**$4.16**	**4.16**	**4.16**	**5.00**	**5.00**	**5.00**	**5.86**	**5.86**	**5.86**	**7.18**	**7.80**

A

A. High-Speed Bud Bur Sets

Two convenient sets both in wooden boxes.

Bur Qty.	Sizes	Item#	Each
19	2–26	**124-4221**	**$92.10**
23	2–34	**124-4222**	**105.45**

High-Speed Cone Burs

Size	2	3	4	5	6	7	8	9	10	11	12	13
Dia. (mm)	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10	3.30
Item#	**123-2020**	**123-2030**	**123-2040**	**123-2050**	**123-2060**	**123-2070**	**123-2080**	**123-2090**	**123-2100**	**123-2110**	**123-2120**	**123-2130**
EACH 1-5	**$3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**3.70**	**4.15**	**4.15**	**4.15**	**4.95**
EACH 6+	**$3.11**	**3.11**	**3.11**	**3.11**	**3.11**	**3.11**	**3.11**	**3.11**	**3.49**	**3.49**	**3.49**	**4.16**

Size	14	16	18	20	22	24	26	28	30	32	34
Dia. (mm)	3.50	4.00	4.50	5.00	5.20	5.60	6.30	7.20	8.00	9.60	11.10
Item#	**123-2140**	**123-2160**	**123-2180**	**123-2200**	**123-2220**	**123-2240**	**123-2260**	**123-2280**	**123-2300**	**123-2320**	**123-2340**
EACH 1-5	**$4.95**	**4.95**	**4.95**	**5.95**	**5.95**	**5.95**	**6.98**	**6.98**	**6.98**	**8.55**	**9.30**
EACH 6+	**$4.16**	**4.16**	**4.16**	**5.00**	**5.00**	**5.00**	**5.86**	**5.86**	**5.86**	**7.18**	**7.81**

B

B. High-Speed Cone Bur Sets

Two convenient sets both in wooden boxes.

Bur Qty.	Sizes	Item#	Each
19	2–26	**124-4331**	**$92.10**
23	2–34	**124-4332**	**105.45**

C. High-Speed Grand Bur Set

Includes all the following 119 burs packaged in an attractive wooden box:

- 25 Round burs, sizes 1–26
- 33 Setting burs, sizes 1–34
- 25 Bearing burs, sizes 1–26
- 17 Hart burs, sizes 2–18
- 19 Bud burs, sizes 2–26.

Description	Item#	Each
119-Piece Set	**124-4670**	**$538.95**

C

High Speed Burs continued.

High-Speed Flame Burs

Size	2	4	6	8	10	12	14
Dia. (mm)	1.10	1.50	1.90	2.30	2.70	3.10	3.50
Item#	**123-4020**	**123-4040**	**123-4060**	**123-4080**	**123-4100**	**123-4120**	**123-4140**
EACH 1-5	**$3.80**	**3.80**	**3.80**	**3.80**	**4.89**	**4.89**	**5.88**
EACH 6+	**$3.19**	**3.19**	**3.19**	**3.19**	**4.11**	**4.11**	**4.94**

Size	16	18	20	22	24	26	30
Dia. (mm)	4.00	4.50	5.00	5.20	5.60	6.30	8.00
Item#	**123-4160**	**123-4180**	**123-4200**	**123-4220**	**123-4240**	**123-4260**	**123-4300**
EACH 1-5	**$5.88**	**5.88**	**6.65**	**6.65**	**6.65**	**6.98**	**6.98**
EACH 6+	**$4.94**	**4.94**	**5.59**	**5.59**	**5.59**	**5.86**	**5.86**

High-Speed Tree Burs

Size	5	8	13	19	26	30
Dia. (mm)	1.70	2.30	3.30	4.70	6.30	8.00
Item#	**124-2050**	**124-2080**	**124-2130**	**124-2190**	**124-2260**	**124-2300**
EACH 1-5	**$3.80**	**3.80**	**5.88**	**6.65**	**6.98**	**6.98**
EACH 6+	**$3.19**	**3.19**	**4.94**	**5.59**	**5.86**	**5.86**

High-Speed 17° Bezel Cone Bur – 3/32" Shank

Use to drill an angled hole that matches the 17° angle on many settings, most notably bezel settings. Solves the problem of inserting a standard tapered prong or bezel setting into a standard shank.

Size	30
Dia. (mm)	8.00
Item#	**123-2301**
EACH 1-5	**$6.98**
EACH 6+	**$5.86**

Gesswein® Lube-Stik

Use on grinding, cutting, drilling, piercing or similar tools to speed up production and increase tool life. Reduces both friction and heat buildup so that tools stay sharper, work faster and cut smoother. Easy to use: just run your tools into the soft lubricant every so often. Can also be used to reduce the effort needed for drawing operations. Supplied in handy push-up dispenser tube.

Description	Item#	EACH Prices 1-9	10+
Lube-Stik	**816-2460**	**$5.25**	**$4.73**

High-Speed Square-Edge Wheels

Size	5	8	13	16	19	26	30	34
Dia. (mm)	1.70	2.30	3.30	4.00	4.70	6.30	8.00	11.10
Item#	**124-3050**	**124-3080**	**124-3130**	**124-3160**	**124-3190**	**124-3260**	**124-3300**	**124-3340**
EACH 1-5	**$3.80**	**3.80**	**5.88**	**5.88**	**6.65**	**6.98**	**6.98**	**9.29**
EACH 6+	**$3.19**	**3.19**	**4.94**	**4.94**	**5.59**	**5.86**	**5.86**	**7.80**

High-Speed Round-Edge Wheels

Size	5	8	13	16	19	26	30	34
Dia. (mm)	1.70	2.30	3.30	4.00	4.70	6.30	8.00	11.10
Item#	**123-9050**	**123-9080**	**123-9130**	**123-9160**	**123-9190**	**123-9260**	**123-9300**	**123-9340**
EACH 1-5	**$3.70**	**3.70**	**5.88**	**5.88**	**6.65**	**6.98**	**6.98**	**9.29**
EACH 6+	**$3.11**	**3.11**	**4.94**	**4.94**	**5.59**	**5.86**	**5.86**	**7.80**

High-Speed Cylinder Burs

Size	5	8	13	16	19	26	30	34
Dia. (mm)	1.70	2.30	3.30	4.00	4.70	6.30	8.00	11.10
Item#	**123-3050**	**123-3080**	**123-3130**	**123-3160**	**123-3190**	**123-3260**	**123-3300**	**123-3340**
EACH 1-5	**$3.85**	**3.85**	**5.88**	**5.88**	**6.65**	**6.98**	**6.98**	**9.29**
EACH 6+	**$3.23**	**3.23**	**4.94**	**4.94**	**5.59**	**5.86**	**5.86**	**7.80**

High-Speed Inverted Cone Burs

Size	5	8	13	19	26	30
Dia. (mm)	1.70	2.30	3.30	4.70	6.30	8.00
Item#	**123-6050**	**123-6080**	**123-6130**	**123-6190**	**123-6260**	**123-6300**
EACH 1-5	**$3.80**	**3.80**	**5.88**	**6.65**	**6.98**	**6.98**
EACH 6+	**$3.19**	**3.19**	**4.94**	**5.59**	**5.86**	**5.86**

High-Speed Reamers

Size	26	30	34
Dia. (mm)	6.30	8.00	11.10
Item#	**123-7260**	**123-7300**	**123-7340**
EACH 1-5	**$6.98**	**6.98**	**9.29**
EACH 6+	**$5.86**	**5.86**	**7.80**

High-Speed Slim Reamers

Size	9	13	19
Dia. (mm)	2.50	3.30	4.70
Item#	**124-1090**	**124-1130**	**124-1190**
EACH 1-5	**$4.89**	**5.88**	**6.65**
EACH 6+	**$4.11**	**4.94**	**5.59**

TiN (Titanium Nitride) Burs 3/32" Shank

Made of high-speed steel, with a TiN (titanium nitride) coating that increases wear resistance to 10–20 times that of plain steel. Significantly improves corrosion resistance, reduces friction and allows freer chip flow for better workpiece finishes. Sold individually or in convenient, money saving sets, so you always have the bur you need when you need it. Please consult ANSI (American National Standards Institute) for speed recommendations. Made in USA.

TiN Round Burs

Size	1	2	3	4	5	6	7	8	9
Dia. (mm)	0.90	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50
Item#	124-3701	124-3702	124-3703	124-3704	124-3705	124-3706	124-3707	124-3708	124-3709
EACH 1-5	$6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	7.15
EACH 6+	$5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	6.01

Size	10	11	12	13	14	15	16	17	18
Dia. (mm)	2.70	2.90	3.10	3.30	3.50	3.80	4.00	4.30	4.50
Item#	124-3710	124-3711	124-3712	124-3713	124-3714	124-3715	124-3716	124-3717	124-3718
EACH 1-5	$7.15	7.15	10.15	10.90	10.90	10.90	10.90	10.90	10.90
EACH 6+	$6.01	6.01	8.53	9.16	9.16	9.16	9.16	9.16	9.16

Description	Item#	Each
18-Piece Set (one each)	130-1006	$137.90

TiN 90° Bearing Burs

Size	1	2	3	4	5	6	7	8	9
Dia. (mm)	0.90	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50
Item#	124-3919	124-3920	124-3921	124-3923	124-3924	124-3925	124-3926	124-3927	124-3928
EACH 1-5	$6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	7.85
EACH 6+	$5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	6.59

Size	10	11	12	13	14	15	16	17	18
Dia. (mm)	2.70	2.90	3.10	3.30	3.50	3.80	4.00	4.30	4.50
Item#	124-3929	124-3930	124-3931	124-3932	124-3933	124-3934	124-3935	124-3936	124-3937
EACH 1-5	$7.85	7.85	10.85	11.85	11.85	11.85	11.85	11.85	11.85
EACH 6+	$6.59	6.59	9.11	9.95	9.95	9.95	9.95	9.95	9.95

Description	Item#	Each
18-Piece Set (one each)	130-1013	$148.79

TiN 45° Hart Burs

Size	2	3	4	5	6	7	8	9	10
Dia. (mm)	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50	2.70
Item#	124-3902	124-3903	124-3904	124-3905	124-3906	124-3907	124-3908	124-3909	124-3910
EACH 1-5	$6.85	6.85	6.85	6.85	6.85	6.85	6.85	7.85	7.85
EACH 6+	$5.75	5.75	5.75	5.75	5.75	5.75	5.75	6.59	6.59

Size	11	12	13	14	15	16	17	18
Dia. (mm)	2.90	3.10	3.30	3.50	3.80	4.00	4.30	4.50
Item#	124-3911	124-3912	124-3913	124-3914	124-3915	124-3916	124-3917	124-3918
EACH 1-5	$7.85	10.85	11.85	11.85	11.85	11.85	11.85	11.85
EACH 6+	$6.59	9.11	9.95	9.95	9.95	9.95	9.95	9.95

Description	Item#	Each
17-Piece Set (one each)	130-1012	$140.00

TiN Setting Burs

Size	1	2	3	4	5	6	7	8	9
Dia. (mm)	0.90	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50
Item#	124-3801	124-3802	124-3803	124-3804	124-3805	124-3806	124-3807	124-3808	124-3809
EACH 1-5	$6.85	6.85	6.85	6.85	6.85	6.85	6.85	6.85	7.85
EACH 6+	$5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	6.59

Size	10	11	12	13	14	15	16	17	18
Dia. (mm)	2.70	2.90	3.10	3.30	3.50	3.80	4.00	4.30	4.50
Item#	124-3810	124-3811	124-3812	124-3813	124-3814	124-3815	124-3816	124-3817	124-3818
EACH 1-5	$7.85	7.85	10.85	11.85	11.85	11.85	11.85	11.85	11.85
EACH 6+	$6.59	6.59	9.11	9.95	9.95	9.95	9.95	9.95	9.95

Description	Item#	Each
18-Piece Set (one each)	130-1000	$148.79

A. TiN Deluxe Bur Set

Includes one of each bur listed above. Packaged in an attractive wooden box.

Description	Item#	Each
71-Piece Set	130-1014	$575.80

A

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Jeweler's Carbide Burs 3/32" Shank

Burs individually hand-cut with diamond wheels. All have fine teeth. Outlast and cut faster than any other burs. Sizes 4-8 feature one-piece construction; sizes 9 and larger are securely brazed onto 3/32" steel shanks. Must be run at maximum speed—will chip if started on work at slow speed or if not removed from work at fast speed. Can be resharpened. Please consult ANSI (American National Standards Institute) for speed recommendations. Made in USA.

Jeweler's Carbide Round Burs

Size	4	5	6	7	8	9
Dia. (mm)	1.50	1.70	1.90	2.10	2.30	2.50
Item#	125-5040	125-5050	125-5060	125-5070	125-5080	125-5090
EACH	$20.95	20.95	20.95	20.95	20.95	22.25

Size	10	11	12	13	14	16
Dia. (mm)	2.70	2.90	3.10	3.30	3.50	4.00
Item#	125-5100	125-5110	125-5120	125-5130	125-5140	125-5160
EACH	$22.25	22.25	22.25	23.55	23.55	23.55

Size	18	20	24	26	28	30
Dia. (mm)	4.50	5.00	5.60	6.30	7.20	8.00
Item#	125-5180	125-5200	125-5240	125-5260	125-5280	125-5300
EACH	$23.55	23.55	23.55	23.55	36.65	36.65

Jeweler's Carbide 90° Bearing Bur

Size	4	5	6	7	8	9	10	11
Dia. (mm)	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90
Item#	125-0040	125-0050	125-0060	125-0070	125-0080	125-0090	125-0100	125-0110
EACH	$20.89	20.89	20.89	20.89	20.89	22.25	22.25	22.25

Size	12	13	14	15	16	18	20	22
Dia. (mm)	3.10	3.30	3.50	3.80	4.00	4.50	5.00	5.20
Item#	125-0120	125-0130	125-0140	125-0150	125-0160	125-0180	125-0200	125-0220
EACH	$22.25	23.55	23.55	23.55	23.55	23.55	23.55	23.55

Size	23	24	25	26	27	28	29	30
Dia. (mm)	5.40	5.60	5.90	6.30	6.70	7.20	7.60	8.00
Item#	125-0230	125-0240	125-0250	125-0260	125-0270	125-0280	125-0290	125-0300
EACH	$23.55	23.55	23.55	23.55	36.65	36.65	36.65	36.65

Jeweler's Carbide 45° Hart Burs

Size	4	5	6	7	8	9	10
Dia. (mm)	1.50	1.70	1.90	2.10	2.30	2.50	2.70
Item#	125-4040	125-4050	125-4060	125-4070	125-4080	125-4090	125-4100
EACH	$20.95	20.95	20.95	20.95	20.95	22.25	22.25

Size	11	12	13	14	15	16	18
Dia. (mm)	2.90	3.10	3.30	3.50	3.80	4.00	4.50
Item#	125-4110	125-4120	125-4130	125-4140	125-4150	125-4160	125-4180
EACH	$22.25	22.25	23.55	23.55	23.55	23.55	23.55

Size	20	22	24	26	28	30
Dia. (mm)	5.00	5.20	5.60	6.30	7.20	8.00
Item#	125-4200	125-4220	125-4240	125-4260	125-4280	125-4300
EACH	$23.55	23.55	23.55	23.55	36.65	36.65

Jeweler's Carbide Setting Burs

Size	4	5	6	7	8	9	10	11	12
Dia. (mm)	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10
Item#	125-6040	125-6050	125-6060	125-6070	125-6080	125-6090	125-6100	125-6110	125-6120
EACH	$20.95	20.95	20.95	20.95	20.95	22.25	22.25	22.25	22.25

Size	13	14	15	16	17	18	19	20
Dia. (mm)	3.30	3.50	3.80	4.00	4.30	4.50	4.70	5.00
Item#	125-6130	125-6140	125-6150	125-6160	125-6170	125-6180	125-6190	125-6200
EACH	$23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55

Size	22	23	24	25	26	28	29	30
Dia. (mm)	5.20	5.40	5.60	5.90	6.30	7.20	7.60	8.00
Item#	125-6220	125-6230	125-6240	125-6250	125-6260	125-6280	125-6290	125-6300
EACH	$23.55	23.55	23.55	23.55	23.55	36.65	36.65	36.65

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Jeweler's Carbide Burs continued.

Jeweler's Carbide Bud Burs

Size	4	6	8	10	12	14	16
Dia. (mm)	1.50	1.90	2.30	2.70	3.10	3.50	4.00
Item#	**125-1040**	**125-1060**	**125-1080**	**125-1100**	**125-1120**	**125-1140**	**125-1160**
EACH	**$20.95**	**20.95**	**20.95**	**22.25**	**22.25**	**23.55**	**23.55**

Size	18	20	24	26	28	30
Dia. (mm)	4.50	5.00	5.60	6.30	7.20	8.00
Item#	**125-1180**	**125-1200**	**125-1240**	**125-1260**	**125-1280**	**125-1300**
EACH	**$23.55**	**23.55**	**23.55**	**23.55**	**36.65**	**36.65**

Jeweler's Carbide Cone Burs

Size	4	6	8	10	12	14	16
Dia. (mm)	1.50	1.90	2.30	2.70	3.10	3.50	4.00
Item#	**125-2040**	**125-2060**	**125-2080**	**125-2100**	**125-2120**	**125-2140**	**125-2160**
EACH	**$20.95**	**20.95**	**20.95**	**22.25**	**22.25**	**23.55**	**23.55**

Size	18	20	24	26	28	30
Dia. (mm)	4.50	5.00	5.60	6.30	7.20	8.00
Item#	**125-2180**	**125-2200**	**125-2240**	**125-2260**	**125-2280**	**125-2300**
EACH	**$23.55**	**23.55**	**23.55**	**23.55**	**36.65**	**36.65**

Jeweler's Carbide Wheel Burs

Size	26	30
Dia. (mm)	6.30	8.00
Item#	**125-7260**	**125-7300**
EACH	**$23.55**	**36.65**

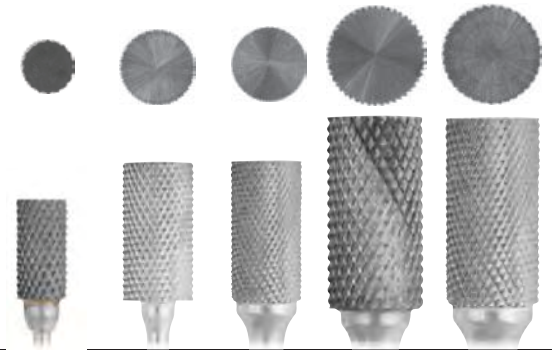
Jeweler's Carbide Cylinder Burs

Size	26	30
Dia. (mm)	6.30	8.00
Item#	**125-3260**	**125-3300**
EACH	**$23.55**	**36.65**

Carbide Cylinder Burs

For cutting and smoothing the inside of rings and cylinders as well as for edge breaking. Available in three styles resulting in a fine, very fine or super fine finish. All are 'double cut' which produces a smoother surface and allows better operator control of the bur. Solid carbide heads are securely brazed onto steel shanks. Made in USA.

Shown actual size



Finish	Fine	Very Fine	Super Fine	Fine	Very Fine
Head Diameter	1/4"	3/8"	3/8"	1/2"	1/2"
Head Length	1/2"	3/4"	3/4"	1"	1"
Shank	3/32"	1/8"	1/8"	1/4"	1/4"
Item#	**129-0105**	**129-0110**	**129-0115**	**129-0030**	**129-0020**
EACH	**$12.77**	**21.10**	**25.95**	**31.85**	**31.85**

Wolf Wax High Speed Steel Cylinder Burs

Made of high-speed steel. Coarse cut for rapid removal of wax. Teeth on the end for milling. Longer cutting surface. Shorter shank (25mm) reduces centrifugal wobble.

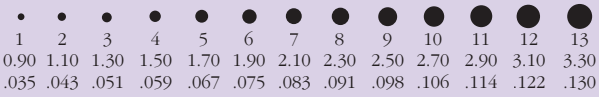
Dia. (mm)	6.3	8.0	11.1
Shank	3/32"	1/8"	1/8"
Item#	**260-2682**	**260-2683**	**260-2684**
EACH	**$14.82**	**16.44**	**21.56**

A, B Steel Florentine Wheels

These medium grade wheels leave a deep bright cut on almost any piece of jewelry. Made of case-hardened steel for long life. Designed to match a #18 hand liner.

Head Dia. x L	A. 1/2" x 1/8"	B. 3/4" x 1/8"
Shank	3/32"	1/8"
Item#	**845-1338**	**845-1324**
EACH	**$57.95**	**49.95**

BUR SIZE CHART – For High-Speed, Titanium Nitrided and Jeweler's Carbide Burs only



SIZE	1	2	3	4	5	6	7	8	9	10	11	12	13
mm	0.90	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10	3.30
inches	.035	.043	.051	.059	.067	.075	.083	.091	.098	.106	.114	.122	.130

SIZE	14	15	16	17	18	19	20	22	23	24	25
mm	3.50	3.80	4.00	4.30	4.50	4.70	5.00	5.20	5.40	5.60	5.90
inches	.138	.150	.157	.169	.177	.185	.197	.205	.213	.220	.232

SIZE	26	27	28	29	30	31	32	33	34
mm	6.30	6.70	7.20	7.60	8.00	8.90	9.60	10.40	11.10
inches	.248	.264	.283	.299	.315	.350	.378	.409	.437

All prices subject to change without notice.

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Busch® High Tech Carbide Tools 3/32" Shank

Carbide burs and drills are known for their particular hardness and the resultant tool life, as well as their cutting capacity. These advantageous properties now also make it possible to economically process materials, which are very hard and difficult to cut (such as platinum, white gold, titanium, and steel). Let yourself be captivated by reproducible results and smooth, shiny surfaces!

Busch AU style carbide burs cut more aggressively than standard carbides. Edges are more precise (making setting easier) and they produce a brighter finish. Available in Round as well as 90° and 70° Hart shaped burs. Round burs are packaged six to a box, available only in multiples of six. Both 90° and 70° Hart burs are packaged two to a box, available only in multiples of two. Shanks are marked with a gold band for easy identification.

Busch Carbide Twist Drills have a robust 2-blade construction and generously sized chip channels. Made of super-hard fine grain carbide these drills are designed to work both on the harder metals associated with carbide tools and on white gold as well. Numerous perfect drill holes can be replicated with the same tool when using a coolant such as our Lube-Stik #816-2460 (see p. 480). Twist drills are packaged two to a box, available only in multiples of two.

Please consult ANSI (American National Standards Institute) for speed recommendations. Made in Germany.

Please ask for quotes on larger quantities.

Busch® Round Carbide Burs – Fig 1AU

Dia. (mm)	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30
Item#	125-5404	125-5405	125-5406	125-5407	125-5408	125-5409	125-5410	125-5411	125-5412	125-5413	125-5414	125-5415	125-5416	125-5417	125-5418	125-5419	125-5420	125-5421	125-5422	125-5423
EACH	$6.90	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52

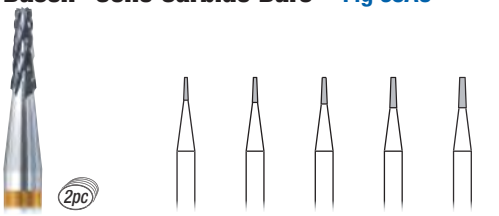
Busch® 90° Hart Carbide Burs – Fig 414AU

Dia. (mm)	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30
Item#	125-5439	125-5440	125-5441	125-5442	125-5443	125-5444	125-5445	125-5446	125-5447	125-5448	125-5449	125-5450	125-5451	125-5452	125-5453
EACH	$17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70

Busch® 70° Hart Carbide Burs – Fig 446AU

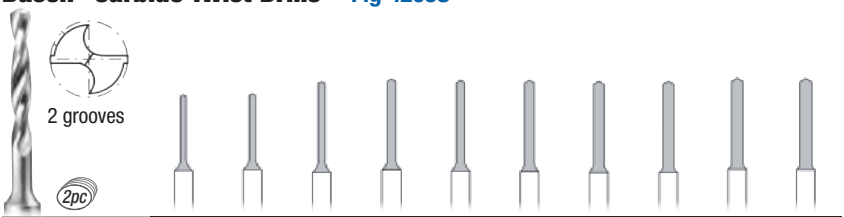
Dia. (mm)	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30
Item#	125-5459	125-5460	125-5461	125-5462	125-5463	125-5464	125-5465	125-5466	125-5467	125-5468	125-5469	125-5470	125-5471	125-5472	125-5473
EACH	$17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70	17.70

Busch® Cone Carbide Burs – Fig 38AU



Dia. (mm)	0.60	0.70	0.80	0.90	1.00
Item#	125-5476	125-5477	125-5478	125-5479	125-5480
EACH 2-22	$12.23	12.23	12.23	12.23	12.23

Busch® Carbide Twist Drills – Fig 4203S



Dia. (mm)	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60
Item#	125-5487	125-5488	125-5489	125-5490	125-5491	125-5492	125-5493	125-5494	125-5495	125-5496
EACH 2-22	$14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
EACH 24+	$12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45

6pc *Six-piece minimum; Please order in multiples of six.*

2pc *Two-piece minimum; Please order in multiples of two.*

Busch® Super Carbide Burs 3/32" Shank

Made of the finest tungsten carbide, accurately fluted and honed to sharp cutting edges, end cut. Consist of heads brazed onto 3/32" steel Shanks. Have coarse tooth structure. Designed to operate at very high speeds. Cannot be resharpened. Please consult ANSI (American National Standards Institute) for speed recommendations. Made in Germany.

Busch® Round Burs – Fig 1

Dia. (mm)	0.70	0.80	1.00	1.20	1.40	1.60	1.80	2.30
Item#	126-0005	126-0010	126-0020	126-0030	126-0040	126-0050	126-0060	126-0080
EACH 1-9	$3.31	3.31	3.31	3.31	3.31	3.31	3.31	3.31
EACH 10+	$2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98

Busch® Square Cylinder Burs – Fig 15

Dia. (mm)	1.00	1.20
Item#	126-0570	126-0580
EACH 1-9	$3.31	3.31
EACH 10+	$2.98	2.98

Busch® Square Cylinder Cross-Cut Burs – Fig 21

Dia. (mm)	1.00	1.20	1.40	1.60	1.80
Item#	126-5570	126-5580	126-5590	126-5600	126-5610
EACH 1-9	$3.31	3.31	3.31	3.31	3.31
EACH 10+	$2.98	2.98	2.98	2.98	2.98

Busch® Universal Cylinder Burs – Fig 15U

Dia. (mm)	1.00	1.20
Item#	126-0575	126-0585
EACH 1-9	$3.63	3.63
EACH 10+	$3.27	3.27

Busch® Universal Cylinder Cross-Cut Burs – Fig 21U

Dia. (mm)	1.00	1.20	1.40	1.60	1.80
Item#	126-5575	126-5585	126-5595	126-5605	126-5615
EACH 1-9	$3.63	3.63	3.63	3.63	3.63
EACH 10+	$3.27	3.27	3.27	3.27	3.27

Busch® Square Cone Burs – Fig 17

Dia. (mm)	0.80	0.90	1.00	1.40
Item#	126-7037	126-7038	126-1700	126-1710
EACH 1-9	$3.31	3.31	3.31	3.31
EACH 10+	$2.98	2.98	2.98	2.98

Busch® Square Cone Cross-Cut Burs – Fig 23

Dia. (mm)	1.00	1.40	1.60	1.80
Item#	126-7000	126-7010	126-7020	126-7030
EACH 1-9	$3.31	3.31	3.31	3.31
EACH 10+	$2.98	2.98	2.98	2.98

Busch® Universal Cone Burs – Fig 17U

Dia. (mm)	1.00	1.40
Item#	126-1705	126-1715
EACH 1-9	$3.63	3.63
EACH 10+	$3.27	3.27

Busch® Universal Cone Cross-Cut Burs – Fig 23U

Dia. (mm)	1.00	1.40	1.60	1.80	2.10
Item#	126-7005	126-7015	126-7025	126-7035	126-7045
EACH 1-9	$3.63	3.63	3.63	3.63	3.63
EACH 10+	$3.27	3.27	3.27	3.27	3.27

Busch® Inverted Cone Burs – Fig 3

Dia. (mm)	0.80	1.00	1.20	1.40	1.60	1.80
Item#	126-0340	126-0350	126-0360	126-0370	126-0380	126-0390
EACH 1-9	$3.31	3.31	3.31	3.31	3.31	3.31
EACH 10+	$2.98	2.98	2.98	2.98	2.98	2.98

Busch® Wheel Bur – Fig 2

Dia. (mm)	1.20
Item#	126-0140
EACH 1-9	$3.31
EACH 10+	$2.98

SS White® Carbide Burs 3/32" Shank

High-quality tungsten carbide burs securely brazed on heat-treated 3/32" steel shanks and approximately 1¾" in length. Bur teeth are reinforced with extra carbide for elimination of premature chipping. Superior fluting improves cutting edges for pinpoint accuracy. All are end cut. Cannot be resharpened. Please consult ANSI (American National Standards Institute) for speed recommendations. Available only in multiples of five. Made in USA.

Round Burs

5pc	•	•	•	•
Style	W1	W2	W3	W4
Dia. (mm)	0.79	0.99	1.19	1.40
Item#	**128-0010**	**128-0020**	**128-0030**	**128-0040**
EACH Prices				
5	**$3.05**	**3.05**	**3.05**	**3.05**
10+	**$2.59**	**2.59**	**2.59**	**2.59**

5pc	•	•	•	•
Style	W5	W6	W7	W8
Dia. (mm)	1.60	1.80	2.10	2.31
Item#	**128-0050**	**128-0060**	**128-0070**	**128-0080**
EACH Prices				
5	**$3.05**	**3.05**	**3.05**	**3.05**
10+	**$2.59**	**2.59**	**2.59**	**2.59**

Square Cylinder Burs

5pc	•	•
Style	W57	W59
Dia. (mm)	0.99	1.40
Item#	**128-0570**	**128-0590**
EACH Prices		
5	**$3.05**	**3.05**
10+	**$2.59**	**2.59**

Square Cylinder Cross-Cut Burs

5pc	•	•	•	•
Style	W557	W558	W559	W560
Dia. (mm)	0.99	1.19	1.40	1.60
Item#	**128-5570**	**128-5580**	**128-5590**	**128-5600**
EACH Prices				
5	**$3.05**	**3.05**	**3.05**	**3.05**
10+	**$2.59**	**2.59**	**2.59**	**2.59**

Square Cone Cross-Cut Burs

5pc	•	•	•	•
Style	W700	W701	W702	W703
Dia. (mm)	0.56	0.76	1.11	1.55
Item#	**128-7000**	**128-7010**	**128-7020**	**128-7030**
EACH Prices				
5	**$3.05**	**3.05**	**3.05**	**3.05**
10+	**$2.59**	**2.59**	**2.59**	**2.59**

Inverted Cone Burs

5pc	•	•	•	•	•
Style	W34	W35	W36	W37	W38
Dia. (mm)	0.79	0.99	1.19	1.40	1.60
Item#	**128-0340**	**128-0350**	**128-0360**	**128-0370**	**128-0380**
EACH Prices					
5	**$3.05**	**3.05**	**3.05**	**3.05**	**3.05**
10+	**$2.59**	**2.59**	**2.59**	**2.59**	**2.59**

Wheel Bur

5pc	•
Style	W14
Dia. (mm)	1.19
Item#	**128-0140**
EACH Prices	
5	**$3.05**
10+	**$2.59**

End Bur – Cut on top only

5pc	•
Style	W957
Dia. (mm)	0.99
Item#	**128-9570**
EACH Prices	
5	**$3.05**
10+	**$2.59**

A

A. Reducing Collets

Convert your 1/8" or 3mm handpiece collets to hold 3/32" shank tools. Easy to use: slip the reducing collet into your handpiece collet, then slip the tool into the reducing collet. Make sure the reducing collet and the tool are fully inserted before operating.

Description	Item#	Each
1/8"–3/32" Collet	**816-1501**	**$14.90**
3mm–3/32" Collet	**816-1504**	**14.90**

B

B. Gesswein® Lube-Stik

Use on grinding, cutting, drilling, piercing or similar tools to speed up production and increase tool life. Reduces both friction and heat buildup so that tools stay sharper, work faster and cut smoother. Can also be used to reduce the effort needed for drawing operations. Supplied in handy push-up dispenser tube.

Description	Item#	EACH Prices 1-9	10+
Lube-Stik	**816-2460**	**$5.25**	**$4.73**

5pc *Five-piece minimum; Please order in multiples of Five.*

Gesswein® Friction Grip Carbide Burs 1/16" Shank

Shown actual size

Made from super-hard carbide securely brazed onto 1/16" steel shanks. They withstand extremely high speeds up to 350,000rpm but please consult ANSI (American National Standards Institute) for speed recommendations. Designed to get into small spaces. All fit our NSK Presto Air Turbine 850-7235, (p. 451). See below for reducing collets from 1/8", 3mm or 3/32" to 1/16". Made in USA.

Your handpiece doesn't accept 1/16" shanks? Use a reducing collet. (see below)

Round

Dia. (mm)	0.51	0.61	0.79	0.99	1.19
Dia. (inches)	.020	.024	.031	.039	.047
Item#	**128-9700**	**128-9705**	**128-9710**	**128-9715**	**128-9720**
EACH 1-4	**$3.50**	**3.50**	**3.50**	**3.50**	**3.50**
EACH 5+	**$3.33**	**3.33**	**3.33**	**3.33**	**3.33**

Dia. (mm)	1.40	1.60	1.80	2.11	2.31
Dia. (inches)	.055	.063	.071	.083	.091
Item#	**128-9725**	**128-9730**	**128-9735**	**128-9740**	**128-9745**
EACH 1-4	**$3.50**	**3.50**	**3.50**	**3.50**	**3.50**
EACH 5+	**$3.33**	**3.33**	**3.33**	**3.33**	**3.33**

Cone Square

Dia. (mm)	0.46	0.56	0.76
Dia. (inches)	.018	.022	.030
Item#	**128-9840**	**128-9845**	**128-9850**
EACH 1-4	**$3.50**	**3.50**	**3.50**
EACH 5+	**$3.33**	**3.33**	**3.33**

Cone Square Cross Cut

Dia. (mm)	0.46	0.56	0.76	1.12	1.55
Dia. (inches)	.018	.022	.030	.044	.061
Item#	**128-9785**	**128-9790**	**128-9795**	**128-9800**	**128-9805**
EACH 1-4	**$3.50**	**3.50**	**3.50**	**3.50**	**3.50**
EACH 5+	**$3.33**	**3.33**	**3.33**	**3.33**	**3.33**

Inverted Cone

Dia. (mm)	0.79	0.99	1.19	1.40	1.60	1.80
Dia. (inches)	.031	.039	.047	.055	.063	.071
Item#	**128-9755**	**128-9760**	**128-9765**	**128-9770**	**128-9775**	**128-9780**
EACH 1-4	**$3.50**	**3.50**	**3.50**	**3.50**	**3.50**	**3.50**
EACH 5+	**$3.33**	**3.33**	**3.33**	**3.33**	**3.33**	**3.33**

Pear

Dia. (mm)	0.79	0.99	1.19
Dia. (inches)	.031	.039	.047
Item#	**128-9855**	**128-9860**	**128-9865**
EACH 1-4	**$3.50**	**3.50**	**3.50**
EACH 5+	**$3.33**	**3.33**	**3.33**

Cylinder Square

Dia. (mm)	0.79	0.99	1.19
Dia. (inches)	.031	.039	.047
Item#	**128-9810**	**128-9815**	**128-9820**
EACH 1-4	**$3.50**	**3.50**	**3.50**
EACH 5+	**$3.33**	**3.33**	**3.33**

Cylinder Square Cross Cut

Dia. (mm)	0.79	0.99	1.19
Dia. (inches)	.031	.039	.047
Item#	**128-9825**	**128-9830**	**128-9835**
EACH 1-4	**$3.50**	**3.50**	**3.50**
EACH 5+	**$3.33**	**3.33**	**3.33**

Cylinder Dome Cross Cut

Dia. (mm)	0.79	0.99	1.19
Dia. (inches)	.031	.039	.047
Item#	**128-9870**	**128-9875**	**128-9880**
EACH 1-4	**$3.50**	**3.50**	**3.50**
EACH 5+	**$3.33**	**3.33**	**3.33**

A. Reducing Collets

Instantly converts your 1/8", 3mm or 3/32" collet to hold a 1/16" tool shank. Simply slip reducing collet into collet on your rotary handpiece to use 1/16" shanked tools. Make sure both the reducing collet and the tool shank are fully inserted into the handpiece collet. Stainless steel.

Size	Item#	Each
1/8" to 1/16"	**816-1502**	**$14.90**
3mm to 1/16"	**816-1505**	**14.90**
3/32" to 1/16"	**816-1503**	**14.90**

A

B. Face Shield

Complete protection with excellent optics.

Lightweight plastic shield for full face and neck protection while grinding, drilling or polishing. Can be worn over dust masks, respirators and glasses. Features pivoting visor for easy raising and lowering, molded visor edge for reinforcement, cushioned vinyl comfort band and adjustable headbands. Visor measures 8"L x 12"W x .040" thick. Does not eliminate need for safety glasses.

	Description	Item#	Each
B.	Face Shield	**270-0210**	**$21.00**
	Replacement Visor	270-0212	4.65
	Replacement Vinyl Sweatband	270-0214	1.48

B

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Gesswein® Solid Carbide Burs

Plain cut

Double cut

Gesswein Solid Carbide Burs are made from laboratory-certified raw material. Most are machine-ground by CNC, producing geometric uniformity in shape and depth of flute. Controlled material selection and CNC manufacturing ensure high product consistency from order to order for dependable cutting action and much longer bur life. All Gesswein Solid Carbide Burs feature one-piece construction (head and shank made of one piece of carbide) unless otherwise indicated. Supplied in two fluting styles: plain cut, which provides aggressive cutting action for fast stock removal, leaving a better finish than plain cut. Made in USA.

Maximum Speed Recommendations (rpm):

Bur Cutting Diameter	1/16"	3/32"	1/8"	3/16"	1/4"
Stainless Steel	75,000	65,000	55,000	40,000	35,000
Other Common Materials	50,000	45,000	35,000	27,500	25,000

These are suggested speeds only. Faster and slower speeds may be used for different materials.
Please consult ANSI (American National Standards Institute) for speed recommendations.

Gesswein® Solid Carbide Burs ¼" Shank; 2" Overall

One-piece construction. ¼" and 3/16" cutting diameters on ¼" shanks. Can be resharpened. 6mm shanks and double cut available on special order.

Cutting Diameter	1/4"	1/4"	1/4"	1/4"	3/16"	1/4"
Head Length	3/4"	1/2"	5/8"	5/8"	5/8"	5/8"
Included Angle	14°	22°	–	–	–	–
Plain Cut Item#	**129-2840**	**129-2140**	**129-2740**	**129-2640**	**129-2230**	**129-2240**
1-4 (each)	**$16.45**	**14.85**	**15.40**	**15.40**	**14.35**	**14.35**
5+	**$15.63**	**14.11**	**14.63**	**14.63**	**13.63**	**13.63**

Cutting Diameter	1/4"	3/16"	1/4"	3/16"	1/4"	1/4"
Head Length	3/8"	1/8"	3/16"	5/8"	5/8"	5/16"
Included Angle	–	–	–	–	–	10°
Plain Cut Item#	**129-2440**	**129-2330**	**129-2340**	**129-2030**	**129-2040**	**129-2940**
1-4 (each)	**$16.60**	**13.45**	**13.45**	**13.05**	**13.05**	**15.75**
5+	**$15.77**	**12.78**	**12.78**	**12.40**	**12.40**	**14.96**

A

A. Gesswein® Solid Carbide Bur Set – ¼" Shank; 2" Overall

Includes one each of the twelve burs listed above. Packaged in a sturdy hardwood box.

Description	Item#	Each
Plain Cut Set	**129-2000**	**$185.50**

B

B. Gesswein® Lube-Stik

Use on any grinding, cutting, drilling, piercing or similar tool to speed up production and increase tool life. Lube-Stik reduces friction and heat buildup so that tools stay sharper, work faster and cut smoother. Easy to use—just run your tool in the soft lubricant. Supplied in a handy push-up dispenser tube.

Description	Item#	EACH Prices 1-9	10+
Lube-Stik	**816-2460**	**$5.25**	**$4.73**

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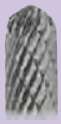
Plain


Double

Gesswein® Solid Carbide Burs 1/8" Shank; 1½" Overall

One-piece construction. 3/16" and 5/32" cutting diameters on 1/8" shanks. Available in plain and double cut. Can be resharpened. 3mm shanks available on special order. Made in USA.

Cutting Diameter	5/32"	3/16"	5/32"	3/16"	3/16"	3/16"
Head Length	1/2"	1/2"	1/2"	1/2"	5/32"	9/32"
Plain Cut Item#	**129-1630**	**129-1640**	**129-1650**	**129-1660**	**129-1670**	**129-1680**
1-4 (each)	**$17.75**	**17.75**	**17.75**	**17.75**	**17.75**	**17.75**
5+	**$16.86**	**16.86**	**16.86**	**16.86**	**16.86**	**16.86**
Double Cut Item#	**129-1635**	**129-1645**	**129-1655**	**129-1665**	**129-1675**	**129-1685**
1-4 (each)	**$19.70**	**19.70**	**19.70**	**19.70**	**19.70**	**19.70**
5+	**$18.72**	**18.72**	**18.72**	**18.72**	**18.72**	**18.72**

Cutting Diameter	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"
Head Length	1/2"	1/2"	3/8"	1/2"	1/2"	1/4"
Plain Cut Item#	**129-1690**	**129-1706**	**129-1710**	**129-1720**	**129-1730**	**129-1740**
Included Angle	–	–	–	4°	16°	10°
1-4 (each)	**$17.75**	**17.75**	**17.75**	**17.75**	**17.75**	**17.75**
5+	**$16.86**	**16.86**	**16.86**	**16.86**	**16.86**	**16.86**
Double Cut Item#	**129-1695**	**129-1707**	**129-1715**	**129-1725**	**129-1735**	**129-1745**
1-4 (each)	**$19.70**	**19.70**	**19.70**	**19.70**	**19.70**	**19.70**
5+	**$18.72**	**18.72**	**18.72**	**18.72**	**18.72**	**18.72**

A. Gesswein® Solid Carbide Bur Sets – 1/8" Shank; 1½" Overall

Each set includes one each of the 12 respective burs listed above. Packaged in a sturdy hardwood box.

Description	Item#	Each
Plain Cut Set	**129-0960**	**$217.25**
Double Cut Set	**129-0965**	**235.90**

A

Gesswein® Solid Carbide Burs 1/8" Shank; 3" Overall

One-piece construction. 1/8" cutting diameter on 1/8" shanks. Available in plain and double cut. Can be resharpened. Made in USA.

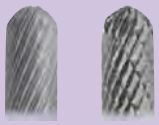
Shown actual size

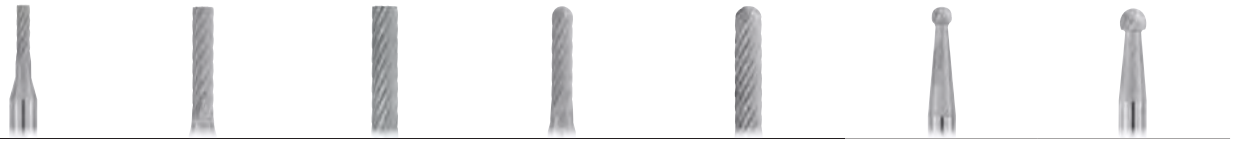
Cutting Diameter	1/8"	1/8"	1/8"	1/8"	1/8"
Head Length	9/16"	1/8"	1/2"	1/2"	7/16"
Plain Cut Item#	**129-1210**	**129-1220**	**129-1230**	**129-1240**	**129-1250**
1-4 (each)	**$9.85**	**9.85**	**9.85**	**9.85**	**9.85**
5+	**$9.36**	**9.36**	**9.36**	**9.36**	**9.36**
Double Cut Item#	**129-1215**	**129-1225**	**129-1235**	**129-1245**	**129-1255**
1-4 (each)	**$10.80**	**10.80**	**10.80**	**10.80**	**10.80**
5+	**$10.26**	**10.26**	**10.26**	**10.26**	**10.26**

All prices subject to change without notice.

Gesswein® Solid Carbide Burs ⅛" Shank; 1½" Overall

Each features one-piece construction—head and shank are fashioned from a single piece of carbide. Available in two fluting styles: plain cut and double cut. Plain cut provides aggressive cutting action for fast stock removal, leaving a slightly rough finish. Double cut makes small chips for efficient stock removal, leaving a better finish than plain cut. Can be resharpened. Measure 1½" long. Made in USA.


Plain Double



Cutting Diameter	1/16"	3/32"	1/8"	3/32"	1/8"	3/32"	1/8"
Head Length	1/4"	7/16"	9/16"	7/16"	9/16"	3/32"	1/8"
Plain Cut Item#	**129-1010**	**129-1020***	**129-1030***	**129-1040**	**129-1050***	**129-1060**	**129-1070***
1-4 (each)	**$6.30**	**6.30**	**6.30**	**6.30**	**6.30**	**6.30**	**6.30**
5+	**$5.99**	**5.99**	**5.99**	**5.99**	**5.99**	**5.99**	**5.99**
Double Cut Item#	**129-1015**	**129-1025***	**129-1035***	**129-1045**	**129-1055***	**129-1065**	**129-1075***
1-4 (each)	**$6.90**	**6.90**	**6.90**	**6.90**	**6.90**	**6.90**	**6.90**
5+	**$6.56**	**6.56**	**6.56**	**6.56**	**6.56**	**6.56**	**6.56**

**Items available in 12-Piece Set below.*

Cutting Diameter	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
Head Length	7/32"	1/2"	1/4"	1/4"	1/4"	5/16"	3/8"
Plain Cut Item#	**129-1080***	**129-1090***	**129-1100***	**129-1110***	**129-1120***	**129-1130**	**129-1140**
1-4 (each)	**$6.30**	**6.30**	**6.30**	**6.30**	**6.30**	**6.30**	**6.30**
5+	**$5.99**	**5.99**	**5.99**	**5.99**	**5.99**	**5.99**	**5.99**
Double Cut Item#	**129-1085***	**129-1095***	**129-1105***	**129-1115***	**129-1125***	**129-1135**	**129-1145**
1-4 (each)	**$6.90**	**6.90**	**6.90**	**6.90**	**6.90**	**6.90**	**6.90**
5+	**$6.56**	**6.56**	**6.56**	**6.56**	**6.56**	**6.56**	**6.56**

**Items available in 12-Piece Set below.*

Cutting Diameter	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
Head Length	7/16"	11/32"	5/8"	1/2"	1/8"	3/16"
Included Angle	14°	12°	7°	8°	10°	10°
Plain Cut Item#	**129-1150**	**129-1160**	**129-1170***	**129-1180***	**129-1190**	**129-1200***
1-4 (each)	**$6.30**	**6.15**	**6.15**	**6.30**	**6.30**	**6.30**
5+	**$5.99**	**5.84**	**5.84**	**5.99**	**5.99**	**5.99**
Double Cut Item#	**129-1155**	**129-1165**	**129-1175***	**129-1185***	**129-1195**	**129-1205***
1-4 (each)	**$6.90**	**6.90**	**6.90**	**6.90**	**6.90**	**6.90**
5+	**$6.56**	**6.56**	**6.56**	**6.56**	**6.56**	**6.56**

**Items available in 12-Piece Set below.*

A, B Gesswein® Solid Carbide Bur Sets – ⅛" Shank; 1½" Overall

Each set includes one each of the 12 respective burs marked with asterisks above. Packaged in a sturdy hardwood box.

Description	Item#	Each
A. Plain Cut Set	**129-1000**	**$71.65**
B. Double Cut Set	**129-1005**	**79.50**

Plain

Double

Gesswein® Solid Carbide Burs 3/32" Shank; 1 1/4" Overall

One-piece construction available in plain or double cut. 1/16" and 3/32" cutting diameters on 3/32" shanks. Can be resharpened. Made in USA.

Cutting Diameter	1/16"	3/32"	3/32"	3/32"	3/32"
Head Length	1/4"	3/8"	3/8"	3/32"	1/8"
Plain Cut Item#	**129-1400**	**129-1410**	**129-1420**	**129-1430**	**129-1440**
1-4 (each)	**$9.25**	**9.25**	**9.25**	**9.25**	**9.25**
5+	**$8.79**	**8.79**	**8.79**	**8.79**	**8.79**
Double Cut Item#	**129-1405**	**129-1415**	**129-1425**	**129-1435**	**129-1445**
1-4 (each)	**$10.20**	**10.20**	**10.20**	**10.20**	**10.20**
5+	**$9.69**	**9.69**	**9.69**	**9.69**	**9.69**

Cutting Diameter	3/32"	3/32"	3/32"	3/32"
Head Length	1/4"	1/4"	1/4"	1/8"
Plain Cut Item#	**129-1450**	**129-1460**	**129-1470**	**129-1480**
1-4 (each)	**$9.25**	**9.25**	**9.25**	**9.25**
5+	**$8.79**	**8.79**	**8.79**	**8.79**
Double Cut Item#	**129-1455**	**129-1465**	**129-1475**	**129-1485**
1-4 (each)	**$10.20**	**10.20**	**10.20**	**10.20**
5+	**$9.69**	**9.69**	**9.69**	**9.69**

A. Gesswein® Solid Carbide Bur Sets – 3/32" Shank; 1 1/4" Overall

Each set includes one each of the nine respective burs above. Packaged in a sturdy hardwood box.

Description	Item#	Each
Plain Cut Set	**129-0940**	**$79.95**
Double Cut Set	**129-0945**	**87.70**

A

B. Reducing Collets

Instantly converts your 1/8" or 3mm collet to hold a 3/32" tool shank. Simply slip reducing collet into collet on your rotary handpiece to use 3/32" shanked tools. Make sure both the reducing collet and the tool shank are fully inserted into the handpiece collet. Stainless steel.

Size	Item#	Each
1/8" to 3/32"	**816-1501**	**$14.90**
3mm to 3/32"	**816-1504**	**14.90**

B

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Gesswein® Carbide Burs ⅛" Shank; 1½" Overall

Carbide heads with ¼" cutting diameter securely brazed on heat-treated ⅛" steel shanks. Can be resharpened. 3mm shanks available on special order. Made in USA.

Plain

Double

Cutting Diameter	¼"	¼"	¼"	¼"	¼"
Head Length	½"	3/16"	½"	½"	⅜"
Included Angle	22°	–	–	–	–
Plain Cut Item#	**129-1820**	**129-1810**	**129-1800**	**129-1770**	**129-1790**
1-4 (each)	**$11.35**	**11.35**	**11.35**	**11.35**	**11.35**
5+	**$10.78**	**10.78**	**10.78**	**10.78**	**10.78**
Double Cut Item#	**129-1825**	**129-1815**	**129-1805**	**129-1775**	**129-1795**
1-4 (each)	**$12.50**	**12.50**	**12.50**	**12.50**	**12.50**
5+	**$11.88**	**11.88**	**11.88**	**11.88**	**11.88**

Cutting Diameter	¼"	¼"	¼"	¼"
Head Length	¼"	3/16"	½"	¼"
Included Angle	–	–	–	10°
Plain Cut Item#	**129-1780**	**129-1750**	**129-1761**	**129-1830**
1-4 (each)	**$11.35**	**11.35**	**11.35**	**11.35**
5+	**$10.78**	**10.78**	**10.78**	**10.78**
Double Cut Item#	**129-1785**	**129-1755**	**129-1766**	**129-1835**
1-4 (each)	**$12.50**	**12.50**	**12.50**	**12.50**
5+	**$11.88**	**11.88**	**11.88**	**11.88**

A. Gesswein® Carbide Bur Sets – ⅛" Shank; 1½" Overall

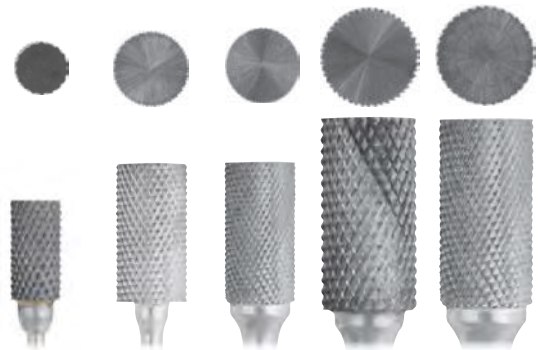
Each set includes one each of the nine respective burs listed above. Packaged in a sturdy hardwood box.

Description	Item#	Each
Plain Cut Set	**129-1700**	**$109.50**
Double Cut Set	**129-1705**	**120.50**

A

Carbide Cylinder Burs

For cutting and smoothing the inside of rings and cylinders as well as for edge breaking. Available in three styles resulting in a fine, very fine or super fine finish. All are 'double cut' which produces a smoother surface and allows better operator control of the bur. Solid carbide heads are securely brazed onto steel shanks. Made in USA.



Finish	Fine	Very Fine	Super Fine	Fine	Very Fine
Head Diameter	¼"	⅜"	⅜"	½"	½"
Head Length	½"	¾"	¾"	1"	1"
Shank	3/32"	⅛"	⅛"	¼"	¼"
Item#	**129-0105**	**129-0110**	**129-0115**	**129-0030**	**129-0020**
EACH	**$12.77**	**21.10**	**25.95**	**31.85**	**31.85**

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A. Wooden Bur Boxes – For 3/32" Shanks

Sturdy, attractive wooden boxes for holding burs or tools with 3/32" shanks.

	Description	Item#	Each
A.	200-Hole Box	**814-1200**	**$25.75**
	100-Hole Box	**814-1205**	**13.50**
	36-Hole Box	**814-1210**	**7.95**

A

B. Handy Block – For 3/32" or 1/8" Shanks

Cured hardwood block with 88 holes for burs or tools with 3/32" or 1/8" shanks. Slanted design lets you see all items at a glance. Stay-put rubber pads prevent sliding. Measures 6" x 4 1/2".

Description	Holes	Item#	Each
Handy Block	3/32", 1/8"	**814-1215**	**$14.95**

B

C, D Rotating Bur Holders – For Burs and Tools

Tiered plastic stands rotate on ball bearings for smooth action. Measure 7" dia. x 4"H.

Style 126
- 45 holes for burs with 1/16" shanks
- 69 two-step holes for burs with 3/32" or 1/8" shanks
- 12 holes for burs with 1/4" shanks

Style 112
- 92 holes for burs with 3/32" or 1/8" shanks
- 13 holes for burs with 1/4" shanks
- 7 holes for 1/16" to 5/32" drills
- 2 3/4" dia. x 3"H center cup for hand tools

	Description	Shank Size	Item#	Each
C.	Style 126	1/16", 3/32" or 1/8", 1/4"	**850-0004**	**$16.55**
D.	Style 112	1/16" to 5/32", 3/32" or 1/8", 1/4	**850-0006**	**16.55**

C

D

E. Econo Rotating Bur Holder – For 3/32" Shanks

Accepts up to 150 burs or tools with 3/32" shanks. Rotates to keep items within easy reach. Measures 6" dia. x 4"H.

Description	Holes	Item#	Each
Econo Rotating Bur Holder	3/32"	**124-4720**	**$12.75**

E

F. Mini Bur Stand with Cover – For 3/32" or 1/8" Shanks

A compact tiered plastic stand for holding up to 24 tools with 3/32" shanks and 24 tools with 1/8" shanks. Clear plastic cover keeps all items dust-free without hiding them from view.
Measures 2 1/8" dia. x 2 1/2"H.

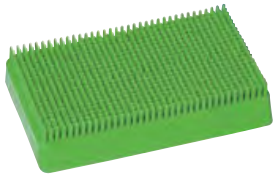
Description	Holes	Item#	Each
Mini Bur Stand with Cover	3/32", 1/8"	**850-0007**	**$4.00**

F

G. Plastic Bur Holder – For 3/32" Shanks

Accepts up to 100 burs or tools with 3/32" shanks. Supplied with tilt stand. Measures 5" x 3".

			EACH Prices	
Description	Holes	Item#	1-2	3+
Plastic Bur Holder	3/32"	**840-0007**	**$4.95**	**$3.96**



G

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A, B Gesswein® High-Speed Steel Blanks and Cutters

A

B

Use with CNC, pantograph or duplicating machines. Made of premium high-speed steel and heat-treated to a hardness of 62–65 HRC in a process that retains toughness. Not as durable as carbide cutters but effective for tasks that require greater tip resiliency, such as making deep, fine cuts. We suggest they be ground by plunge-cut or cross-feed method with a soft grinding wheel. Centerless ground to a tolerance of +.0000"/-.0002", with flats that are within .001" above center. All have flat length of 0.565" except #151-9630 and #151-9660, which have flat length of 0.400".

Description	Dia. x L	Item#	EACH Prices 1-5	6+
A. Single-Split Cutter	1/8" x 1 1/2"	151-9630	$5.25	$4.46
	3/16" x 2"	151-9635	7.50	6.38
	1/4" x 2 1/4"	151-9640	10.00	8.50
	5/16" x 2 3/8"	151-9645	15.00	12.75
	3/8" x 2 1/2"	151-9650	18.85	16.02
	1/2" x 2 1/2"	151-9655	29.50	25.08
B. Double-Split Cutter	1/8" x 1 1/2"	151-9660	6.95	5.91
	3/16" x 2"	151-9665	10.35	8.80
	1/4" x 2 1/4"	151-9670	14.25	12.11
	5/16" x 2 3/8"	151-9675	21.95	18.66
	3/8" x 2 1/2"	151-9680	28.85	24.52
	1/2" x 2 1/2"	151-9685	42.50	36.13

C. Gesswein® Solid Carbide Drills

Jobbers Length, Fractional Inch Sizes

C

Standard spiral, two-flute long-life drills with 118° drill points. Use on tool steels, cast steel, aluminum, bronze and nonmetallic materials. All drills are machine-ground (many by CNC). Gesswein Carbide Drills have consistent, uniform flute depths, so they produce dependable results order-to-order.

Tolerances:

Drill diameter: +.0000/-.0005"
Shank diameter: +.000/-.001"

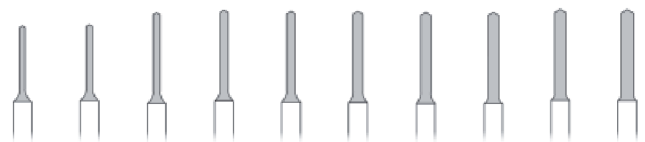
Size	Diameter (inches)	Head Length	Overall Length	Item#	Each
1/32"	.0312	1/2"	1 1/4"	155-2135	$11.40
3/64"	.0468	3/4"	1 1/2"	155-2140	9.60
1/16"	.0625	3/4"	1 1/2"	155-2145	11.05
5/64"	.0781	7/8"	1 3/4"	155-2150	12.55
3/32"	.0937	1"	2"	155-2155	11.65
7/64"	.1094	1 1/4"	2 1/4"	155-2160	12.55
1/8"	.1250	1 1/4"	2 1/4"	155-2165	13.95
5/32"	.1562	1 3/8"	2 1/2"	155-2175	19.99
3/16"	.1875	1 5/8"	2 3/4"	155-2185	21.69
1/4"	.2500	2"	3 1/4"	155-2205	31.35
C. 6-Piece Set (one each of following popular sizes: 1/16", 1/8", 3/16", 1/4", 5/16", 3/8")				155-2207	180.00

D. Busch® Carbide Twist Drills – Fig 4203S – 3/32" Shank

D

2 grooves

2pc



Dia. (mm)	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60
Item#	125-5487	125-5488	125-5489	125-5490	125-5491	125-5492	125-5493	125-5494	125-5495	125-5496
EACH 2-22	$14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
EACH 24+	$12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45	12.45

2pc *Two-piece minimum; Please order in multiples of two.*

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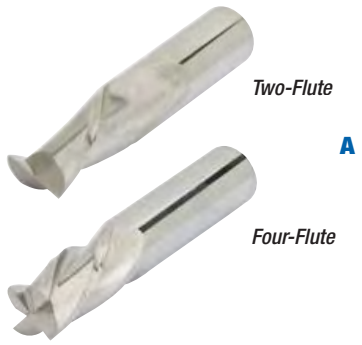
A, B Solid Carbide Square-Nose End Mills

Made of premium micro-grain carbide for superior performance and greater wear resistance. Stay sharp longer than regular carbide end mills, with less chipping and breaking. Available in two-flute and four-flute styles. Right-hand, center cutting, 30° spiral.

Tolerances:

Cutting Diameter +.0000/-.0020"
Shank Diameter -.0001/-.0004"

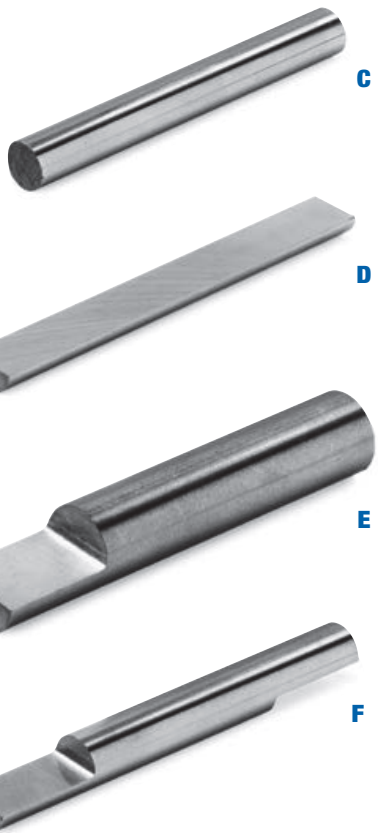
	Cutting Diameter	Shank Diameter	Head Length	Overall Length	Two-Flute Item#	Four-Flute Item#	Each
A.	1/16"	1/8"	3/16"	1 1/2"	**156-0070**	**156-0060**	**$10.95**
	3/32"	1/8"	3/8"	1 1/2"	**156-0150**	**156-0140**	**10.50**
	1/8"	1/8"	1/2"	1 1/2"	**156-0220**	**156-0210**	**10.65**
	3/16"	3/16"	5/8"	2"	**156-0380**	**156-0370**	**14.20**
	1/4"	1/4"	3/4"	2 1/2"	**156-0540**	**156-0530**	**16.85**
	9/32"	5/16"	3/4"	2 1/2"	**156-0620**	**156-0610**	**22.50**
	5/16"	5/16"	13/16"	2 1/2"	**156-0700**	**156-0690**	**23.15**
	3/8"	3/8"	1"	2 1/2"	**156-0860**	**156-0850**	**27.80**
	1/2"	1/2"	1"	3"	**156-1180**	**156-1170**	**43.75**
B.	6-Piece Set (one each of following popular sizes: 1/8", 3/16", 1/4", 5/16", 3/8", 1/2" diameters)				**156-1500**	**156-1510**	**151.95**



C-F Gesswein® Super Carbide Blanks and Cutters

Stay sharper and last up to five times longer than standard carbide due to high cobalt content. Ideal for use on tool steel, stainless steel, Inconel and other high-temperature metals. Centerless ground. Overall tolerance: +.0000/-.0005". Split tolerance: +.000/-.001". Hardness: 91.8 HRC. Density: 14.74g/cc. Transverse rupture strength: 400,000 PSI. Use with pantograph or duplicating machines.

	Description	Dia. x L	Item#	EACH Prices 1-5	6+
C.	Round Blank	1/8" x 1 1/2"	**150-4000**	**$3.40**	**$2.89**
		1/8" x 3"	**150-4010**	**7.40**	**6.29**
		1/8" x 6"	**150-4016**	**17.00**	**14.45**
		3/16" x 2"	**150-4020**	**8.00**	**6.80**
		3/16" x 6"	**150-4026**	**23.75**	**20.19**
		1/4" x 2"	**150-4030**	**12.15**	**10.33**
		1/4" x 6"	**150-4036**	**38.15**	**32.43**
		3/8" x 2"	**150-4040**	**25.50**	**21.68**
D.	Half-Round Blank	1/8" x 1 1/2"	**150-5000**	**15.90**	**13.52**
		3/16" x 2"	**150-5005**	**31.20**	**26.52**
		1/4" x 2"	**150-5010**	**43.00**	**36.55**
		3/8" x 2"	**150-5015**	**72.00**	**61.20**
E.	Single-Split Cutter	1/8" x 1 1/2"	**150-3000**	**4.90**	**4.17**
		3/16" x 1 1/2"	**150-3010**	**10.00**	**8.50**
		1/4" x 2"	**150-3020**	**16.00**	**13.60**
		3/8" x 2"	**150-3030**	**32.90**	**27.97**
		1/2" x 3"	**150-3100**	**61.75**	**52.49**
F.	Double-Split Cutter	1/8" x 1 1/2"	**150-5100**	**7.80**	**6.63**
		3/16" x 2"	**150-5105**	**15.90**	**13.52**
		1/4" x 2"	**150-5110**	**23.75**	**20.19**
		3/8" x 2"	**150-5115**	**40.40**	**34.34**



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Interested in CAD/CAM but not sure if it is right for you?

If you're already using CAD (Computer Aided Design) you already know the main benefits:

- Easily create custom pieces for your select clients. Respond to local interests making you and your firm the first place customers think of when they want something truly special.
- Quickly show the concept, get immediate customer input for revisions and close the sale while the excitement of the design plan is at its highest.
- Break away from the limitations of hand carving; saving time, effort and providing utmost perfection in your models.

Having both your own CAD and CAM (Computer Aided Manufacturing) is an extension of this immediacy:

- You control the production schedule so there is no waiting on your supplier's schedule and you completely eliminate delivery time.
- By keeping production in-house, your unique designs are secure.
- If you produce two models or more a week the EnvisionTEC Micro is an economical choice.

The EnvisionTEC units (see pp. 182-183) use resin to build your model allowing you to make models you simply cannot create with a mill system. Models are the highest quality — amazing detail down to 25 microns. Cost of the resin material is approximately $1 per piece.

Easy-to-use, the machines operate without supervision — turn them on and let them go. You can even directly turn your resin model into a rubber mold by using the HTM-140 or Photosilver resins.

The latest technology with the latest capabilities is available to you and your firm letting you compete with other designers on a level playing field.

Interested? Call in to speak with one of our specialists to explore how our CAD/CAM and Rapid Prototyping options can help you.

"…I have worked with and have experience in ALL machines… milling machines, Roland, Solidscape, Perfactory. I gotta tell you honestly…I love my [Aureus] desktop. I would not trade it for anything else."

— Hien Nguyen, Owner
Trademark Jewellery

We offer the machinery and resins you need to save time and money while you keep total control over your intellectual property and unique designs.

Our software is easy to learn and easy to use. You'll quickly be producing intricate models.

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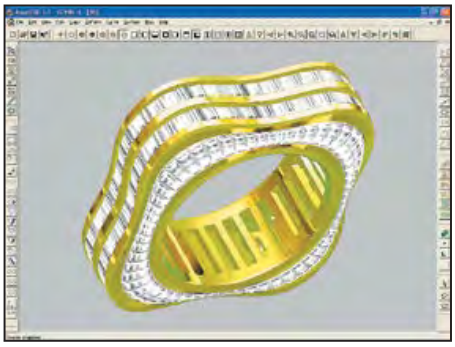
A. JewelCAD Pro – 3-D Design Software

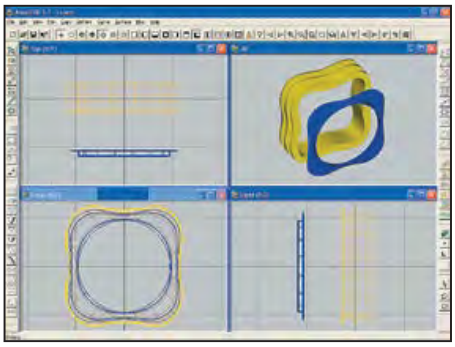
JewelCAD Pro is the new generation of jewelry designing and modeling software that is more powerful and efficient than its predecessor, JewelCAD. It has a completely new programming core that allows fast and up-to-date extension of features. JewelCAD Pro still maintains the simple user interface and similar way of working in JewelCAD so that current users can operate it easily.

Features:

- Non-engineering approach for easy learning and fast operation.
- Only basic knowledge in computers is needed to master the software in several weeks.
- JewelCAD Pro is much improved in its STL data export, photo quality rendering and automatic tools for diamond setting.
- Ideally suited for jewelry designers and design studios to create custom jewelry and publish marketing material.
- Supports real-time move, size and rotate during rendering and support bounding box transformation on objects.
- Generates isoparametric curves on surface and can be converted to simple curves for modeling and stone setting.
- Allows creating curves on surface.
- Easier and more effective manipulation of control points on surface, also allowing addition of local control points.

Description	Item#	Each
JewelCAD Pro V5.1	**266-4009**	**$3,995.00**





A

B. 3DESIGN® CAD7 Jewelry Modeling Software

User-friendly software for advanced 3-D model creation!

Tailored specifically to the needs of jewelry makers, this feature-packed software allows you to design intricate models in mere hours. Enables efficient sharing of ideas with customers and managers alike, speeding up approval. Creates files accepted by CNC and rapid prototyping machines for final model production, such as the EnvisionTEC Aureus (see p. 182).

Features:

- Intuitive interface with option to split view for working on multiple design aspects at once, palettes for keeping tools readily accessible and mouse-over properties of all icons for rapid identification.
- Full catalog of predesigned components for fast model creation, including rings, settings, stones and even Swarovski Crystallized Elements.
- Draft wizard to import your own model sketches for ultimate customizability.
- History-driven construction method for easy modification of models at any time without having to start again from scratch.
- Fine-tuned control of all metal and stone parameters, textures and lighting for faithful representation of models to clients and coworkers.
- STL file format for seamless exporting to CNC and rapid prototyping machines.
- JAVA foundation for universal compatibility with Microsoft Windows, Mac OS X and Linux operating systems.
- On-line contextual help system for the most current assistance available.
- Includes several detailed tutorials and demos to help you get rapidly acquainted. Compatible with Microsoft Windows, Mac OS X and Linux operating systems. Available in 17 languages: English, Spanish, French, German, Italian, Greek, Russian, Polish, Hungarian, Czech, Chinese, Japanese and Korean.

Description	Item#	Each
3DESIGN CAD7 Software	**262-0119**	**$6,600.00**

B

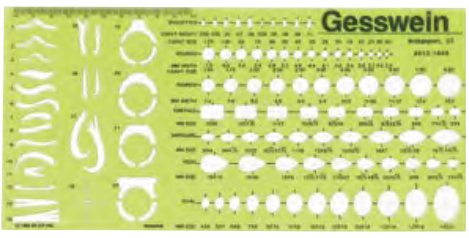
Actual renderings created with 3DESIGN CAD7

C. Jewelry Drawing Template

An easy-to-use calibrated template for jewelry designers. Immediately improves your jewelry designs and simplifies the task of determining stone sizes required for your jewelry.

Contains stone shape profiles and sizes, as well as shank top and side views. Great for sketches and wax work. Measures 10¼"L x 4¾"W. Includes instructions.

Description	Item#	EACH Prices 1-4	5+
Jewelry Drawing Template	**812-1660**	**$25.00**	**$22.50**



C

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A

A. EnvisionTEC Aureus® RP

High-resolution desktop system for rapid prototyping and direct manufacturing.

Based on the principle of photopolymerization, the Aureus builds 3-D resin models with the finest CAM finish. The 3-D models can be cast directly into precious metal or vulcanized into a rubber mold, depending on which resin is selected. Using state of the art Direct Light Projection technology from Texas Instruments, the Aureus directs light through a projector which allows for numerous models to be built at the same time. For example, 15 models can be built in the same time it takes a 3-D printer to make just 5! The Aureus is the perfect choice for the small to medium company looking to fulfill their production requirements.

Features:

- Constant build speed up to 3-7 mm/hour (material dependent)
- Medium size working area can build up to 10-15 rings at a time
- Minimal moving parts and consumable components allow easy servicing by the user.
- Models suitable for direct casting or for rubber molding
- Using an Ethernet interface, the Aureus can be connected directly to a PC workstation or integrated into a network.
- An embedded PC allows the Aureus to work independently from the preprocessing workstation. Includes a software suite for easy monitoring from any PC on the network and fast importing of STL data files.

Specifications:

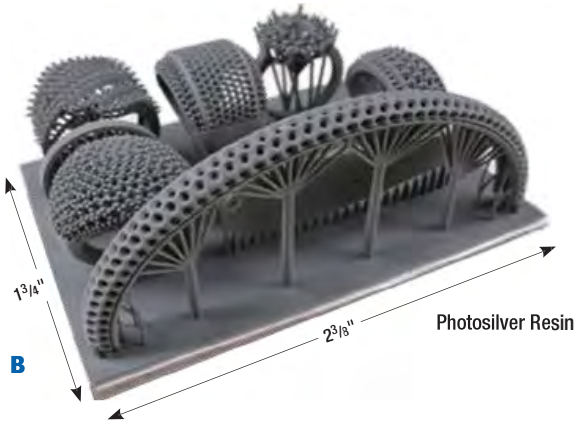
Build Envelope	2⅜"L x 1¾"W x 4"H (60 x 45 X 100mm ± 2mm)
Build Speed	3–7mm/hour at 35µm Z-voxel thickness (material dependent)
ERM Voxel Size (x,y)	43µm (a "voxel" is a volumetric pixel)
Z-Voxel Thickness	25–35µm (adjusted by each material module)
Resolution SXGA+	1400 x 1050px
Warranty	1 year on factory parts and labor
Footprint	21"L x 17"W x 31"H
Weight	77.16 lb (35 kg)
Electrical	100-120V, 2A, 50/60Hz

Aureus Package Includes:

EnvisionTEC Aureus Machine
EnvisonTEC Aureus Post Curing System
½ kg Resin of your choice
Basement Tray
Magics Software and Perfactory Software Suite
2 days of training and installation
Freight Door-to-Door (Continental USA)

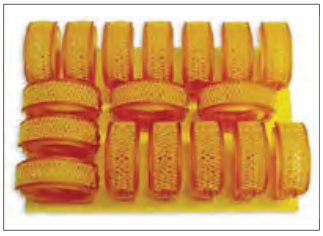
	Description		Item#	Each
A.	Aureus RP Machine Package		**262-0110**	**Call for Pricing**

Breakage resistant models



B Photosilver Resin

C WIC 100 Resin



D PIC 100

B-D EnvisionTEC Resin Materials for Aureus

	Description	Resin Type	Application	Item#	Each
B.	PIC 100, 1kg	Thermoplastic	Direct Casting	**262-0114**	**$429.00**
C.	WIC 100, 1kg	Wax Filled	Direct Casting	**262-0115**	**450.00**
D.	Photosilver, 1kg	Ceramic Filled	Rubber Molding	**262-0127**	**489.00**
	HTM-140, 1kg	High Temperature Nano Filled	Rubber Molding	**262-0138**	**450.00**

***For best results in casting RP models, use All Cast Fast Setting Investment (see p. 211)**

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A. EnvisionTEC Perfactory® Micro

High-resolution desktop system for rapid prototyping and direct manufacturing.

The Micro model maker is the smallest desktop 3-dimensional printer — with the highest resolution. It is a low cost, easy maintenance and user friendly personal desktop 3-dimensional manufacturing system. Using state of the art Direct Light Projection technology from Texas Instruments, the Perfactory Micro System produces the finest detail in the shortest period of time using an LED light source with zero maintenance and very low acquisition costs.

Features:

- Small footprint for those with limited space
- Small working area can build up to 4-5 rings at a time
- No calibration required for machine
- Minimal moving parts and quiet running
- New LED light source for up to 30,000 hours life expectancy
- Models suitable for direct casting or for rubber molding
- Low acquisition cost and easy to operate

Specifications:

Build Envelope	1.58"L x 1.18"W x 3.94"H (40 x 30 x 100mm)
ERM Voxel Size (x,y)	31 µm (0.0012")
Linear Z Axis Resolution	1 µm
Z Voxel Thickness	25 µm (0.0010") to 35 µm (0.0014") (material dependent)
Light Source	LED
Warranty	2 years on factory parts and labor
Footprint	9"L x 8"W x 24"H (23cm x 18cm x 58cm)
Weight	29 lbs. (13 kg)
Electrical	110V, 3A, 50/60Hz

Perfactory Micro package Includes:

Perfactory Micro Machine
EnvisionTEC Micro Post Curing Light Box
½ kg Resin of your choice
Magics Software and Perfactory Software Suite
2 days of training
Freight Door-to-Door (Continental USA)

	Description	Item#	Each
A.	Perfactory Micro Package	**262-0140**	**Call for Pricing**

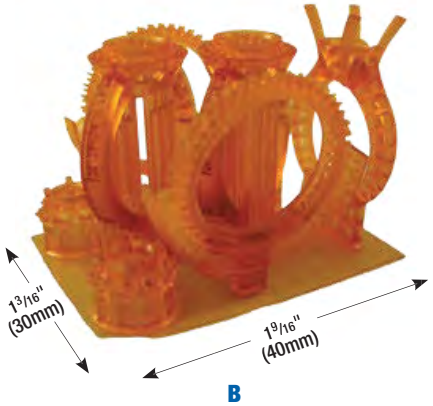
A

B. EnvisionTEC Resin Materials – Specially Formulated for use in the Perfactory® Micro

Description	Resin Type	Application	Size	Item#	Each	Size	Item#	Each
PIC 100M	Thermoplastic	Direct Casting	½ kg	**262-0153**	**$350.00**	1kg	**262-0152**	**$700.00**
HTM-140M	Nano Filled	High Temperature Rubber Molding	½ kg	**262-0155**	**350.00**	1kg	**262-0154**	**700.00**
EC500M	Plastic/Wax	Direct Casting	½ kg	**262-0151**	**350.00**	1kg	**262-0150**	**700.00**

For best results in casting RP models, use All Cast Fast Setting Investment (see p. 211)

Breakage resistant models



B

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Ferris® File-A-Wax®

Start your model making with the finest carving wax in the industry. It's the accepted standard for making a wide variety of designs, especially detailed carvings. Easily turned on a lathe and burns out cleanly from flasks. Cannot be steam dewaxed, not recommended for wax injectors. Available in three hardness grades. **Green:** A very hard wax, it can't be flexed. Ideal for sharp edges, intricate carvings and delicate engraving. Melting temperature: 240°F (115.6°C). **Purple:** General purpose, hard with some flexibility. Melting temperature: 230°F (110°C). **Blue:** Less hard and more flexible than green or purple. Melting temperature: 220°F (104.5°C).

Ferris File-A-Wax
available in green, purple and blue.

A-I Ferris® File-A-Wax® Ring Tubes

All measure 6" long. Tubes have 5/8" diameter hole.

	Description	Dimensions	Green	Purple	Blue	EACH Prices* 1-2	3-5*	6+*
A.	Solid Round	7/8" O.D.	261-5380	261-5385	261-5400	$6.95	$6.60	$6.26
B.	Solid Round	1 1/16" O.D.	261-5450	261-5460	261-5500	6.95	6.60	6.26
C.	Round, Centered	7/8" O.D.	261-5700	261-5660	261-5650	6.95	6.60	6.26
D.	Round, Centered	1 1/16" O.D.	261-5810	261-5815	261-5820	6.95	6.60	6.26
E.	Round, Off-Center	1 1/16" O.D.	261-5800	261-5805	261-5750	6.95	6.60	6.26
F.	Flat-Top	1"W x 1"H	261-5835	261-5836	261-5840	6.95	6.60	6.26
G.	Flat-Top	1"W x 1 1/8"H	261-5825	261-5826	261-5830	6.95	6.60	6.26
H.	Med. Flat-Top	1 1/8"W x 1 1/8"H	261-5845	261-5846	261-5855	6.95	6.60	6.26
I.	Lg. Flat-Top	1 3/16"W x 1 5/16"H	261-5550	261-5555	261-5600	6.95	6.60	6.26

O.D. = approximate outside diameter **Quantity discount for orders of one item number only; not assorted.*

See pp. 185, 189 for more Wax Ring Tubes.

J, K Ferris® File-A-Wax® Slices

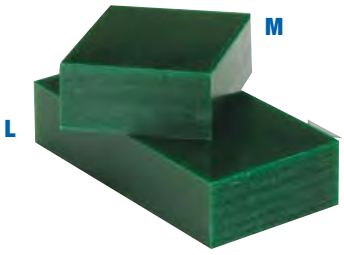
Each slice is 3 5/8"L x 1 1/2"W. Assorted thicknesses come in each box.

	Description	Color	Dimensions	Item#	EACH Prices 1-2	3-5	6+
	1 lb. of slices (B.S.L.)	Green	3/16" to 1" thick	261-5005	$24.40	$23.18	$21.96
	1/2 lb. of slices (A.S.L.)		1/8" to 1/4" thick	261-5020	18.90	17.96	17.01
	1 lb. of slices (B.S.L.)	Purple	3/16" to 1" thick	261-5010	24.40	23.18	21.96
	1/2 lb. of slices (A.S.L.)		1/8" to 1/4" thick	261-5025	18.90	17.96	17.01
J.	1 lb. of slices (B.S.L.)	Blue	3/16" to 1" thick	261-5015	24.40	23.18	21.96
K.	1/2 lb. of slices (A.S.L.)		1/8" to 1/4" thick	261-5030	18.90	17.96	17.01

L, M Ferris® File-A-Wax® Blocks

Blocks are available individually in 2 weights: 1/2 lb. and 1 lb.

	Description	Color	Dimensions	Item#	EACH Prices 1-2	3-5	6+
L.	1 lb. blocks	Green	6"L x 3 5/8"W x 1 1/2" thick	261-5100	$22.75	$21.61	$20.48
M.	1/2 lb. blocks		3 1/2"L x 3 1/2"W x 1 1/8" thick	261-5050	10.85	10.31	9.77
	1 lb. blocks	Purple	6"L x 3 5/8"W x 1 1/2" thick	261-5200	22.75	21.61	20.48
	1/2 lb. blocks		3 1/2"L x 3 1/2"W x 1 1/8" thick	261-5150	10.85	10.31	9.77
	1 lb. blocks	Blue	6"L x 3 5/8"W x 1 1/2" thick	261-5300	22.75	21.61	20.48
	1/2 lb. blocks		3 1/2"L x 3 1/2"W x 1 1/8" thick	261-5250	10.85	10.31	9.77



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Matt® Carving Wax

Formulated to meet the demanding specifications of professional wax carvers. Compounded with special care to avoid contamination, pitting and air bubbles. Accurately shaped to minimize preparation time. Choose from three color-coded grades of flexibility. **Green:** (rigid) cuts clean and crisp, excellent for detailed carving and milling. Melting temperature: 230°F. **Purple:** (all-purpose) easy to work, good for chip carving. Melting temperature: 225°F. **Blue:** (bendable) works for items that require flexibility. Melting temperature: 220°F.

A-H Matt™ Ring Tubes

Measure 6" long except 6pc. assortment which is precut to 1" lengths. All tubes have 5/8" dia. finger hole.

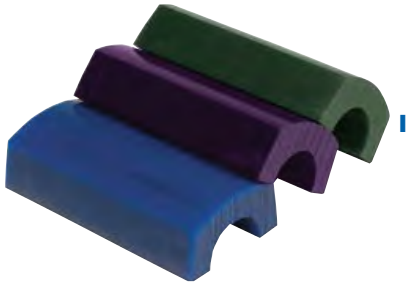
	Description	Dimensions	Green	Purple	Blue	EACH Prices* 1-2	3+*
A.	Round, Centered	7/8" O.D.	261-7700	261-7660	261-7650	$8.65	$7.79
B.	Round, Centered	1 1/16" O.D.	261-7810	261-7815	261-7820	8.65	7.79
C.	Round, Centered	1 5/16" O.D.	261-7860	261-7865	261-7880	8.65	7.79
D.	Round, Off-Center	1 1/16" O.D.	261-7800	261-7805	261-7750	8.65	7.79
E.	Flat-Top Tube	1"W x 1 1/8"H	261-7825	261-7826	261-7830	8.65	7.79
F.	Med. Flat-Top Tube	1 1/8"W x 1 1/8"H	261-7845	261-7846	261-7855	8.65	7.79
G.	Lg. Flat-Top Tube	1 1/4"W x 1 1/4"H	261-7550	261-7555	261-7560	8.65	7.79
H.	Pre-cut, 6-Piece Assortment	1"W x 1"L			261-7500	8.95	8.06

O.D. = approximate outside diameter **Quantity discount for orders of one item number only; not assorted.*

I. Matt™ Bracelet Wax Bars

From one blank style you can create round, oval or square bracelets in a variety of sizes. Simply cut 2 slices of the desired thickness to form the bracelet, then trim using the Matt Bracelet Shaper #265-2353 (see pp. 187).

Color	Dimensions	Item#	EACH Prices 1-2	3+
Green	6 1/4"L x 3 1/4"W x 1 3/4"H	265-2339	$19.95	$17.96
Purple	6 1/4"L x 3 1/4"W x 1 3/4"H	265-2338	18.90	17.01
Blue	6 1/4"L x 3 1/4"W x 1 3/4"H	265-2341	19.95	17.96



J. Matt™ Smooth Precision Wax Tablet Sets

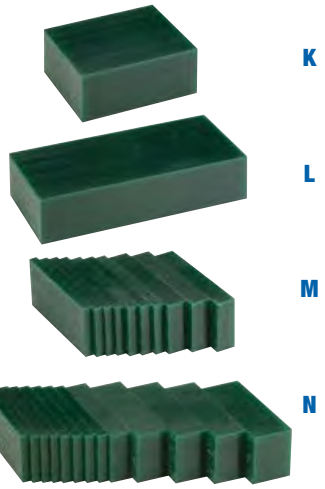
Sets of rectangular wax tablets with large, flat, incredibly smooth surfaces for designing jewelry directly onto carving wax. Each contains six 6" x 2 5/8" tablets: three 4.5mm thick tablets, one 6mm thick tablet, one 8mm thick tablet and one 10.5mm thick tablet.

Color	Dimensions	Item#	EACH Prices 1-2	3+
Green Tablet Set	6"L x 2 5/8"W	261-7900	$26.85	$25.51
Purple Tablet Set	6"L x 2 5/8"W	261-7912	26.85	25.51
Blue Tablet Set	6"L x 2 5/8"W	261-7910	26.85	25.51

K-N Matt™ Carving Waxes

Bars are available in 1/2 lb. and 1 lb. weights. Half-pound slices are 1/2" thick, while one pound slices are 1" thick.

	Description	Color	Dimensions	Item#	Each
K.	Bar, 1/2 lb.	Green	3 3/8"L x 3 1/8"W x 1 7/16"H	261-7520	$9.80
L.	Bar, 1 lb.		6 1/2"L x 3 1/8"W x 1 7/16"H	261-7510	13.35
M.	Slices, box of 1/2 lb.		3 1/8"W x 1 7/16"H x 1/8"-1/2" Thick	261-7540	10.95
N.	Slices, box of 1 lb.		3 1/8"W x 1 7/16"H x 1/8"-1" Thick	261-7530	16.30
	Bar, 1/2 lb.	Purple	3 3/8"L x 3 1/8"W x 1 7/16"H	261-7522	9.80
	Bar, 1 lb.		6 1/2"L x 3 1/8"W x 1 7/16"H	261-7512	13.35
	Slices, box of 1/2 lb.		3 1/8"W x 1 7/16"H x 1/8"-1/2" Thick	261-7542	10.95
	Slices, box of 1 lb.		3 1/8"W x 1 7/16"H x 1/8"-1" Thick	261-7532	16.30
	Bar, 1/2 lb.	Blue	3 3/8"L x 3 1/8"W x 1 7/16"H	261-7524	9.80
	Bar, 1 lb.		6 1/2"L x 3 1/8"W x 1 7/16"H	261-7514	13.35
	Slices, box of 1/2 lb.		3 1/8"W x 1 7/16"H x 1/8"-1/2" Thick	261-7544	10.95
	Slices, box of 1 lb.		3 1/8"W x 1 7/16"H x 1/8"-1" Thick	261-7534	16.30



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A

A. Matt™ Ring Template

Now it's easy to get the precise ring outline you need on your wax blank. Template features 18 different cutouts of both men's and ladies' rings from the most popular styles to some of the more unusual designs. Unbreakable plastic with precision-milled cutouts.

Description	Item#	Each
Matt Ring Template	**265-2333**	**$12.30**

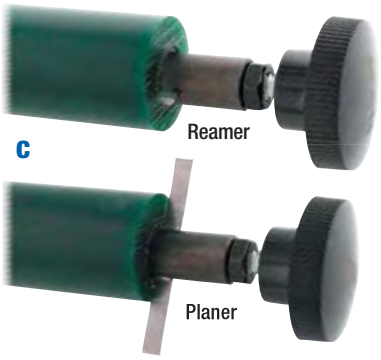
B

B. Matt™ Trimmer

Trim wax blanks to the exact shape you need. Also use to mill out center of wax rings for sizing. The rotary file is specially designed for wax work. The platform locks at 90° to create a perfectly symmetrical wax pattern and can also be angled for taper cuts. Platform can be adjusted parallel to the handpiece for milling operations to create seats, perfect channels and decorative work. The Matt Trimmer requires a Flexible Shaft machine and 1" diameter handpiece (such as our #30). Comes complete with mounting bracket, adjustable platform, rotary file, ring template (with 18 profiles for men's and ladies' rings), assorted carving wax blanks and instruction book.

Description	Item#	Each
Matt Trimmer	**265-2352**	**$157.00**
Replacement Rotary File (1/8" shank)	265-2357	30.65

C



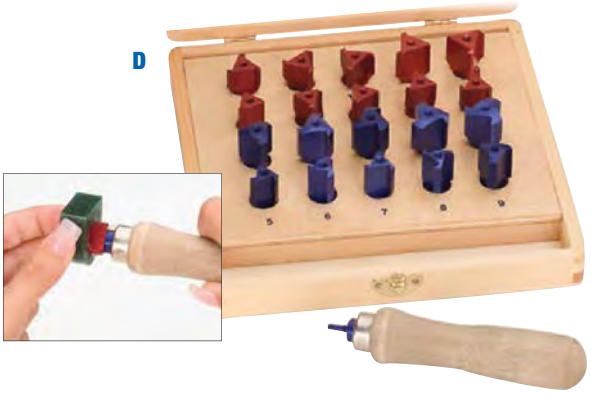
C. Matt™ Reamer/Planer

A good design begins with a perfect blank. With the Matt Reamer, you can quickly create perfect wax blanks with smooth, parallel walls and bore finger sizes straight through the blanks to exact dimensions. Consists of a precision-ground steel rod with a holding knob and two specially designed carbide blanks.

The wing blade is for planing the tube surface, and the boring bit is for boring the finger size. Turn the reamer clockwise and counterclockwise, and the wing blade cuts in both directions, sheering off a thin film of wax with every stroke, leaving a perfectly flat surface. After replacing the wing blade with the boring bit, turn the reamer clockwise to enlarge the finger hole to the precise size with smooth inner walls. Has engraved lines that indicate various finger sizes. Also lets you create bezels for round stones or coin holders.

Description	Item#	Each
Matt Reamer/Planer	**261-7905**	**$58.90**

D

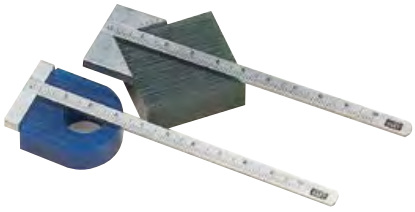


D. Wax-a-Sizer

Perfect for professional wax carvers. Features machined aluminum bits with sharp blades for cutting accurate finger hole sizes straight through wax ring blanks in one pass. A pilot head on each bit is sized to match the hole in standard wax tubes for stability and symmetry when cutting. You can even hold the whole wax tube in your hand while sizing, making it easier to handle, then simply cut off the desired width after sizing is complete. Wax-a-Sizer includes 20 individual bits in color-coded full- and half-sizes from 5 to 14½, a sturdy wooden handle and wooden storage box. Sizes are clearly marked on bits and box.

Description	Item#	Each
Wax-a-Sizer	**265-2319**	**$169.00**

E



E. Wax Model Gauge Set

Set of 2 gauges for measuring straight or angled pieces up to 10cm in 1mm increments. Measure approximately 4¾" long.

Description	Item#	Each
Wax Model Gauge Set	**265-2379**	**$39.95**

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A. Matt™ Miter Box and Saw Set

Includes extruded aluminum miter box with stop-lock and steel back saw. Slices wax bars, rods and ring tubes into tablets with perfectly straight and parallel walls or tapered sides. Miter box holds the ring tube firmly in place to eliminate hand strain. Stop-lock lets you cut multiple tablets of the same thickness. Rugged steel sawblade cuts through tubes with very little effort, leaving a smooth finish. Miter box measures 6"L x 2"W. Sawblade measures 6½"L x 2"D.

	Description	Item#	Each
A.	Miter Box and Saw Set	**265-2346**	**$55.00**
	Replacement Sawblade	265-2348	17.00

A

B. Matt™ Ring Tube Reamer

Enlarge the finger hole of wax ring models with speed and accuracy. Hardwood mandrel is specially machined to incorporate a steel cutting blade that extends from the handle to the tapered tip. Slide this reamer through the hole of a wax ring or ring tube and gently rotate clockwise. As the blade turns, it scrapes the inner wall, enlarging the ring to the size that is clearly marked on the mandrel and leaving a smooth, shiny, uniform finish on the ring in seconds.

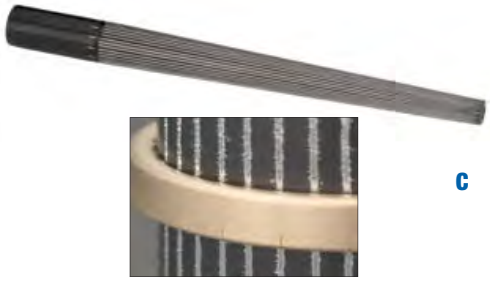
Description	Item#	Each
Matt Ring Tube Reamer	**265-2349**	**$26.50**

B

C. S.C. Brown Indexing Mandrel

Designed by master jeweler Samuel Brown for fellow jewelers, this anodized heavyweight aluminum mandrel will prove indispensable for working on waxes and finished rings. Accommodates sizes 1–13. Marked with 36 lines, each 10° apart. Excellent for designing eternity and other rings because it allows you to quickly divide each ring into symmetrical sections. Includes complete instructions.

Description	Item#	Each
Indexing Mandrel	**820-8160**	**$23.50**



C

D. Matt™ Mini Lathe with Gauge

For turning and milling hard carving wax. Must be used with a flex shaft and a 1" dia. handpiece, such as our #30 handpiece (see p. 438). Ideal for wedding bands, bezels and special settings. Complete with lathe, three wax-holding collets, assorted wax blanks, three hand tools for cutting and shaping wax, cutting tool installed in lathe, two cutting tool blanks for custom shaping, Allen wrench and instruction booklet.

	Description	Item#		Each
D.	Mini Lathe with Gauge	**265-2312**		**$160.00**
	Replacement Parts	**Item#**	**1-11**	**12+**
	Wax-Holding Collet	265-2347	$6.95	$6.05
	Cutting Tools, set of three	265-2344	18.25	15.88

#30 handpiece not included.

D

E. Matt™ Bracelet Shaper

Create individual, exciting bracelet designs quickly and easily! The Matt Bracelet Shaper attaches to your #30 handpiece (or other 1" diameter handpiece) for fast, precise carving of all kinds of bangle and hinged wax bracelets. Includes a Bracelet Template to help you create round, square or oval bracelet profiles. The large platform can be easily angled for perfect bevel, channel or taper cuts. Two sample pieces of Matt Blue Bracelet Wax are included. You can also use standard wax blocks to make belt buckles, pendants and other large pieces.

Description	Item#	Each
Matt Bracelet Shaper	**265-2353**	**$138.00**
Replacement Parts	**Item#**	**Each**
Template	265-2336	$12.85
Rotary File (⅛" shank)	265-2357	30.65

E

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Wooden mandrel sold separately in Matt Supply Box (see below).

A

B

C

D

E

F

G

H

A. Matt™ Wax Gun Set

A wax extruder for creating unique and intricate jewelry designs. The lightweight gun has a thermostatic control for wax temperatures from 120-300°F. Convenient wax cartridges are used for fast loading. Flow is controlled with your thumb.

Endless design possibilities include macramé, twists, wax weaving and more. Comprehensive 113-page instruction book included. Set is complete with gun, book, 2 brass nozzles (one small and one large round orifice), nozzle-changing wrench and 15 wax cartridges in 3 types from easy-flow to stiff.

Description	Item#	Each
110V	**265-2355**	**$148.00**
220V	**265-2354**	**148.00**
Blue Pellets, 1 lb.	**265-2330**	**29.45**
Green Pellets, 1 lb.	**265-2362**	**32.45**
Red Pellets, 1 lb.	**265-2363**	**29.45**

B. Matt™ Supply Box

Includes a highly polished rotating hardwood mandrel mounted on a sturdy steel base, an alcohol lamp, and 120 pieces of wax for the Matt Wax Gun (40 each of green, red and blue).

Description	Item#	Each
Matt Supply Box	**265-2345**	**$57.95**

C, D Transparent Sheet Wax

Pliable sheets of transparent wax with smooth surfaces. Trace designs directly on sheet, then cut with scissors or carving tool. Sheets measure 4" x 4". Sold in boxes of 15 assorted sheets.

	Description	B&S Gauge	Item#	Box
C.	Pink (soft) Sheet Wax	20, 22 & 24	**261-9200**	**$22.65**
D.	Green (firm) Sheet Wax	20, 22 & 24	**261-9150**	**24.25**

E. Freeman Sol-U-Carv Wax – A Carvable Wax That is Water Soluble

Sol-U-Carv is both a carvable and soluble wax specifically formulated for the lost wax casting process. Ideal for making hollow beads, hollow pendants, dome rings, or any other configuration where a hollowed area in the finished pattern is desired. Can be carved using conventional carving tools to form cores. Melting temperature: 165° - 170° F. (73.8°-76.7° C.). The melted wax can be poured or injected into a prepared mold to form the desired shape. Other wax can be injected around the Sol-U-Carv wax placed in a metal or rubber mold to produce extremely intricate patterns.

Description	Item#	Each
Freeman Sol-U-Carv Wax (1 lb.)	**263-1051**	**$20.75**

F. Ferris® Mold-A-Wax®

Works like clay when softened in hot water. Melts at 150°F. Sold in 1 lb. blocks. Black Mold-A-Wax is slightly pliable and can be softened in hot water and injected at 150°F. Red Mold-A-Wax is much softer than Black and is not injectable.

		EACH Prices		
Description	Item#	1-2	3-5	6+
Black #5 (med.)	**261-5850**	**$21.70**	**$20.62**	**$19.53**
Red #6 (soft)	**261-5849**	**21.70**	**20.62**	**19.53**

G, H Wolf™ Touch-Up and Relief Wax™

Use Touch-Up wax for correcting imperfections such as pits and cracks or filling bezel walls for a tighter fit. Flow temperature: 163°F (73°C). Easily scraped or trimmed for a smooth finish. Use for creating raised detail on carving waxes. Apply molten Relief Wax on wax model surface. Can be easily carved. Flow temperature: 165°F (74°C).

			EACH Prices		
	Description	Item#	1-2	3-5	6+
G.	Touch-Up Wax, 1.7 oz. tin	**261-4940**	**$20.80**	**$19.76**	**$18.72**
H.	Relief Wax, 1.7 oz. tin	**261-4945**	**18.65**	**17.72**	**16.79**

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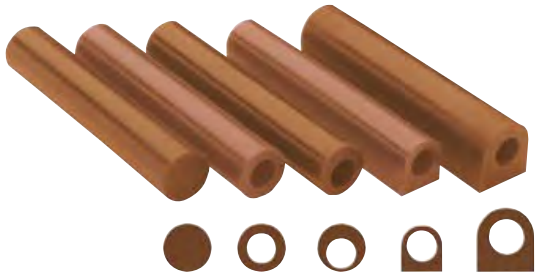
A, B Precision Wolf Milling Wax™ By Ferris® – Ideal For Milling Machines!

Wolf Milling Wax withstands extremely high rotational speeds, possesses the toughness to be machined into thin sections and cleans up quickly and easily. Possessing high pliability and toughness, ultra-thin cross sections with the most intricate details and minimal tool path residue can be obtained. Wax models clean up easily and burn out completely. When finished, wax models exhibit a gold-like tone that is easy to read and helpful in visualizing how the finished pieces will look when cast. As a bonus, it has proven to be an excellent hand carving wax, as well. Available in ring tubes and slices. Ring tubes measure 6" long with 5/8" dia. finger hole. Slices measure 53mm square. Melting temperature: 240°F (115.6°C).

Description	Item#	EACH Prices 1-2	3-5	6+
A. Tube B-1062, Solid 11/16" O.D.	**261-4901**	**$10.35**	**$9.83**	**$9.32**
Tube T-1062, Center Hole 11/16" O.D.	**261-4905**	**10.35**	**9.83**	**9.32**
Tube T-1062E, Off-Center Hole 11/16" O.D.	**261-4909**	**10.35**	**9.83**	**9.32**
Tube T-100, Flat Top 1"W x 1 1/8"H	**261-4913**	**10.35**	**9.83**	**9.32**
Tube T-200, High Flat Top 1 3/16"W x 1 5/16"H	**261-4917**	**10.35**	**9.83**	**9.32**

Description	5mm, 16 Slices	10mm, 9 Slices	15mm, 6 Slices	Each
B. Slices, 1 lb.	**261-4937**	**261-4938**	**261-4939**	**$24.00**



A

B

C. Wolf Wicked Sticky Positioning Wax

Ideal for securing stones for accurate tracing. Just smear wax on stone, press stone onto wax or metal, and scribe around stone. Flow temperature: 173°F (78°C). Sold in 3 oz. boxes of sticks. Each stick measures 3/16" sq. x 5"L.

Description	Item#	EACH Prices 1-2	3-5	6+
Wicked Sticky Positioning Wax, 3 oz. box	**261-4936**	**$10.30**	**$9.79**	**$9.27**

C

D. Sticky Wax

Fast-setting wax for joining other waxes. Melting temperature: 160°F. Supplied in 1 lb. package of random chunks or 3 oz. package of 1/4" dia. x 5"L sticks.

Description	Item#	Each
Chunks (1 lb.)	**261-6310**	**$8.25**
Sticks (3 oz.)	**261-6305**	**8.60**

D

E. Wax Wire Assortment

Contains 6 oz. of wax wire. Includes half-round (6-, 8-, 12- and 14-gauge), round (10-, 14- and 18-gauge) and half-pear shapes (6-gauge). Sticks measure 4" long.

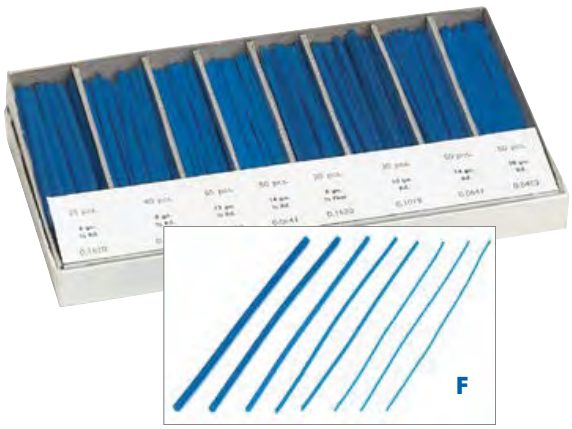
Description	Item#	Each
Wax Wire Assortment	**261-5900**	**$13.90**

E

F. Wax Wire – Round

Flexible 4 1/2" long wires can be twisted or bent. Packaged in convenient storage box. Each box contains approximately 2 oz. of round wax wire. Thickest wire is 6-gauge.

Description	B&S Gauge	Item#	Each	B&S Gauge	Item#	Each
Wax Wire	6	**261-5945**	**$14.35**	14	**261-6100**	**$14.35**
	8	**261-5950**	**14.35**	16	**261-6150**	**14.35**
	10	**261-6000**	**14.35**	18	**261-6200**	**14.35**
	12	**261-6050**	**14.35**	20	**261-6250**	**14.35**



F

G. Wax Wire Spools – Round

Flexible round wax wire (1/4 lb.) spooled for less waste when different lengths of wire are needed. You only cut off the exact length you need. Can be used for decorative wax work such as braids, macramé, scroll work, etc. Thickest wire is 6-gauge.

Description	B&S Gauge	Item#	Each	B&S Gauge	Item#	Each
Wax Wire Spools	6	**261-6286**	**$21.35**	14	**261-6290**	**$21.35**
	8	**261-6287**	**21.35**	16	**261-6291**	**21.35**
	10	**261-6288**	**21.35**	18	**261-6292**	**21.35**
	12	**261-6289**	**21.35**			

G

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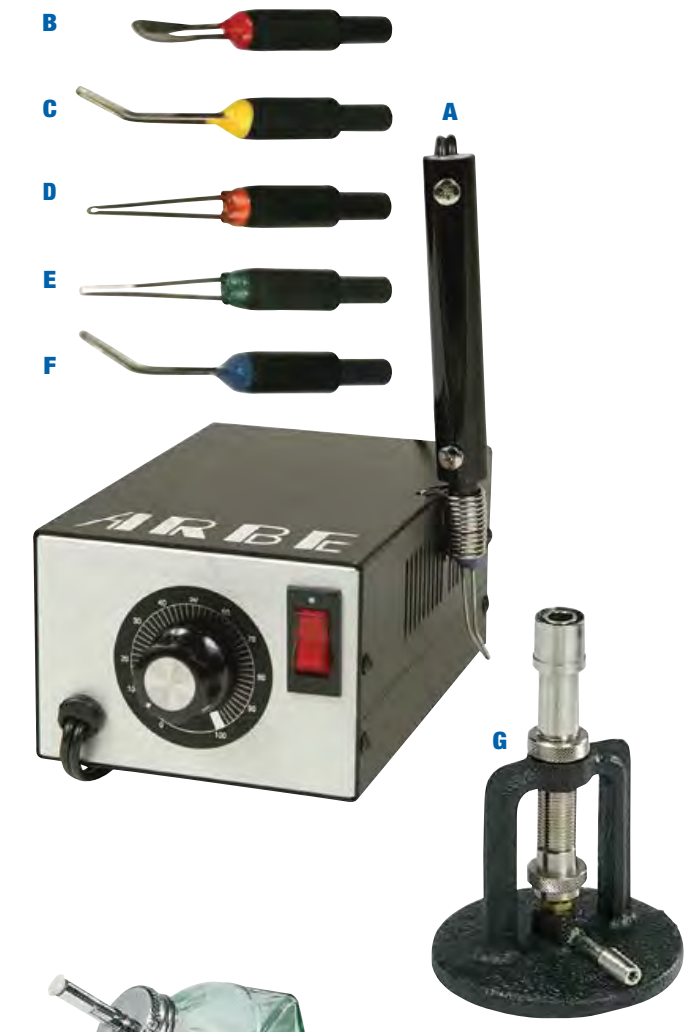

A-F Wax Heat Carver

This easy-to-use carver features a heavy-duty variable-power rheostat that enables precise, consistent temperature control from approx. 100–1,200°F. Includes comfortable handpiece with ultra-flexible 35" power cord, built-in handpiece holder and blue tip. Measures 4"W x 6"D x 3"H.

	Description	Item#	Each
A.	Wax Heat Carver, 110V	**265-1980**	**$145.00**
	Wax Heat Carver, 220V	**265-1981**	**204.00**
B.	Red Tip, Broad Spatula	**265-1983**	**12.00**
C.	Yellow Tip, Bent Needle Nose	**265-1984**	**12.00**
D.	Orange Tip, Straight Needle Nose	**265-1986**	**12.50**
E.	Green Tip, Straight Flat Sharp	**265-1987**	**12.50**
F.	Replacement Blue Tip, Bent Needle Nose Sharp	265-1985	12.00
	Replacement Handpiece	265-1982	44.85

G. Bunsen Burner

For heating wax and wax-carving tools. Can be used with artificial or natural gas. Has adjustable needle valve for gas control to produce a hot brush flame down to a needle flame with intense heat. Measures 4½"H, 3" base diameter.

Description	Item#	Each
Bunsen Burner	**811-1600**	**$44.85**

H. Alcohol Lamps

Safety cap to prevent evaporation of fuel. Faceted bowl can be tipped on angle. Each bowl holds 4 oz. of fuel, measures 4" diameter. One wick is supplied.

	Description	Item#	EACH Prices 1-5	6+
H.	Lamp w/ sleeve adjustment	**813-1905**	**$8.30**	**$7.47**
	Lamp w/ screw adjustment	**813-1900**	**6.99**	**6.29**

	Replacement Wicks	Item#	(6pc) Each
	1/4" for #813-1905	813-1906	$0.46
	3/16" for #813-1900	813-1901	0.46

(6pc) *Six-piece minimum; please order in multiples of 6.*

I. Wax Ring Mandrel

Step-type aluminum mandrel for full sizes 4-13. Rotates a full 360° and can be detached from base. Measures 12½" long. Use Mold Release Spray (see 816-2915 p. 205) for lubricant.

Description	Item#	Each
Wax Ring Mandrel	**260-4250**	**$36.60**

J. PEPETOOLS Wax Ring Design Sleeve Set

Includes 10 full-size and 10 half-size aluminum sleeves ranging in size from 4 to 13½ (made to allow for metal shrinkage during casting), holder and wooden storage base. Sleeves can be rotated 360° on holder. Sizes are clearly marked on sleeves and base.

Description	Item#	Each
Sleeve Set	**260-4255**	**$85.00**

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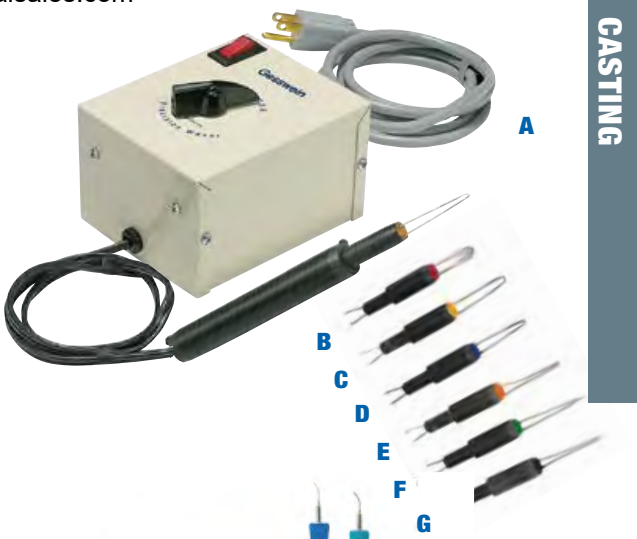
A-G Giles® Precision Waxer

An indispensable tool for wax model making. Great for carving, shaping, texturing and sizing. Graduated dial adjustment has nine settings for accurate temperature modulation. Slim, lightweight handpiece with flexible 26" cord provides fine control for intricate work. Measures 4" long without tip. Weighs 1 oz. Waxer features mounted handpiece holder, pilot light and on/off switch. Includes three tips. Electrical: 110V or 220V, 1A, 15W, 50/60Hz. Measures 4"L x 5"W x 3"H. Made in USA.

	Description	Item#	Each
A.	Precision Waxer, 110V	**265-2300**	**$175.25**
	Precision Waxer, 220V	**265-2301**	**224.00**
	Replacement Handpiece and Cord	265-2309	51.75

	Tips	Shape	Item#	Each
B.	Red* (replacement)	Wide	265-2302	$14.70
C.	Yellow* (replacement)	Wide (grooved)	265-2303	12.90
D.	Blue* (replacement)	Narrow (bent)	265-2304	12.90
E.	Orange	Flat	**265-2305**	**12.90**
F.	Green	Needle (fine)	**265-2306**	**13.90**
G.	Black	Sprue Burning	**265-2307**	**14.99**

**Supplied with Precision Waxer.*



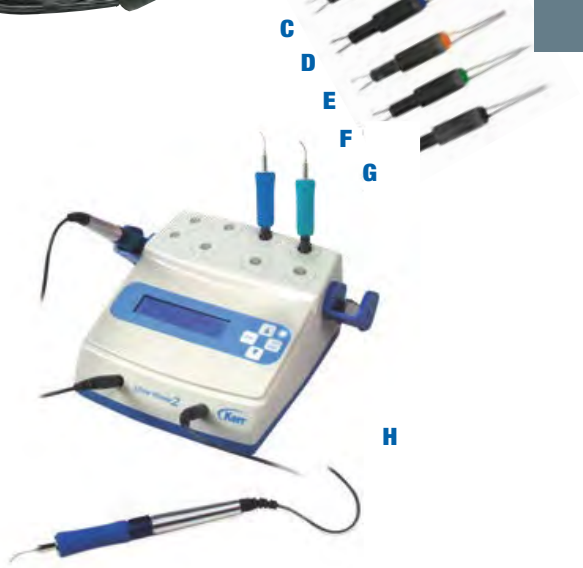
H-Q Kerr Ultra Waxer 2

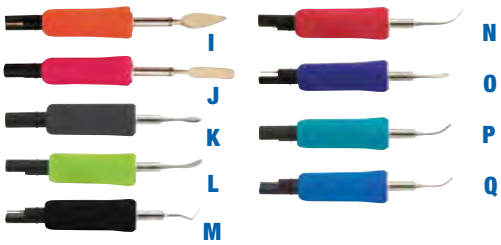
The ultimate electronic waxer comes complete with two handpieces and 2 tips (Small PKT and Large PKT) for increased productivity. Now you'll rarely have to stop to change tips; interrupting your creative flow. Handpiece cord measures 34". Features convenient tip holder for eight tips, easy-to-use all digital menu functions such as quick heat and programmable temperature presets.

Features:	**Specifications:**	
Dual Voltage	Electrical:	110/220V
Quick heat up/constant temp	Dimensions:	13"L x 10¼"W x 5"H
Sturdy construction	Weight:	3.8 / 6.0 lbs.

	Model	Item#	Each
H.	Kerr Ultra Waxer 2	**265-2563**	**$299.00**

	Tips	Item#	Each
I.	Large Denture - Orange	**265-2573**	**$66.95**
J.	Small Denture - Pink	**265-2572**	**66.95**
K.	Short #7 - Gray	**265-2440**	**66.95**
L.	Large #7 - Green	**265-2441**	**66.95**
M.	Short ½ Hollenback - Black	**265-2442**	**66.95**
N.	Short Needle - Red	**265-2443**	**66.95**
O.	Short Beavertail - Purple	**265-2444**	**66.95**
P.	Short Large PKT (replacement) - Teal	265-2445	66.95
Q.	Short Small PKT (replacement) - Blue	265-2446	66.95
	9-Piece Tip Set (1 each of above)	**265-2447**	**620.00**
	Replacement Handpiece and Cord	265-2564	66.95





R, S PEPETOOLS TouchAmatic Digital Wax Pen

State-of-the-art digital wax pen that provides immediate heating response when you simply touch the contact point on the pen. Features variable control knob for precise temperature control. Low enough to do fine wax work and high enough to burn sprues into silicone molds. Two modes: "Continuous Mode" will output a constant temperature from the pen tip and "Touch Mode" will output heat only when the pen is activated. Immediate heating response. Takes up minimal space on the benchtop with its small footprint. Handpiece cord measures 31" providing necessary maneuverability. Includes four color-coded Nichrome tips. An optional set of 9 Nichrome tips is available and includes a variety of tip shapes for treeing, fine and coarse wax carving, spruing, etc.

Specifications:

Temperature Range:	Up to 800° F (420° C)
Dual Voltage:	110/230V, 50/60 Hz.
Max Power Consumption:	20 VA
Dimensions:	3"W x 7"D x 5¼"H

	Description	Item#	Each
R.	Pepe TouchAmatic Digital Wax Pen	**265-2891**	**$264.00**
S.	Optional TouchAmatic Tip Set	**265-2895**	**65.00**
	TouchAmatic Digital Replacement Pen	265-2892	51.50

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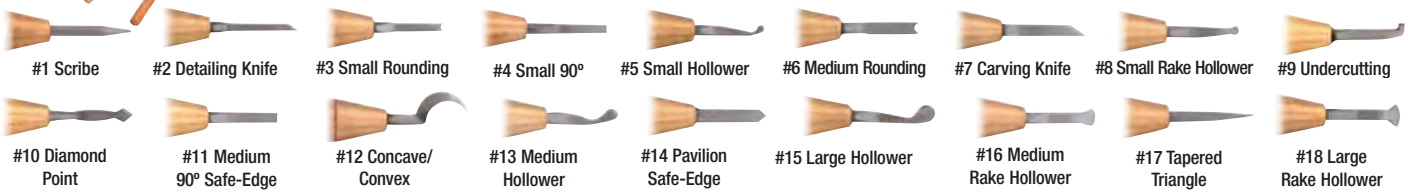
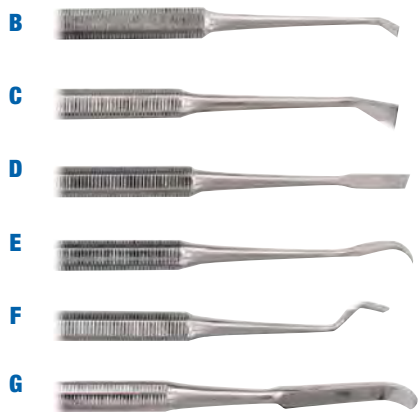
A

A. Wolf Precision Wax Carver Set

Designed by Kate Wolf, master modelmaker and educator. Feature chromium manganese tool steel tips with precise, sharp, durable edges and color-coded, numbered beech handles. Ideal for carving wax, polymer clay and PMC. Set includes 18 tools with heavy-duty plastic canister and 24-page full-color instruction booklet.

Description	Item#	Each
A. Wolf Precision Wax Carvers Full Set	**260-2978**	**$164.00**





B-G Sharp-Edge Wax Carvers

Made of high-grade stainless steel, these carvers feature heads with sharp edges that cut and scrape wax exceptionally well. All have nonroll octagonal handles with cross-grooves for comfortable yet secure grip. Available individually or in a set of all six styles. Each measures approx. 5¾" long.

Description	Item#	Each
B. Small Flat Draw	**260-2921**	**$3.95**
C. Large Flat Draw	**260-2922**	**3.95**
D. Angled Blade	**260-2923**	**3.95**
E. Small Claw	**260-2925**	**3.95**
F. Thin Chisel	**260-2926**	**3.95**
G. Scooper	**260-2927**	**3.95**
6-Piece Set	**260-2919**	**19.95**

I-N Wax Carving Tools

Carve, form, shape and patch wax models. Stainless steel tools with hexagonal handles. Double-ended. Measure 6½" long. See picture for shapes.

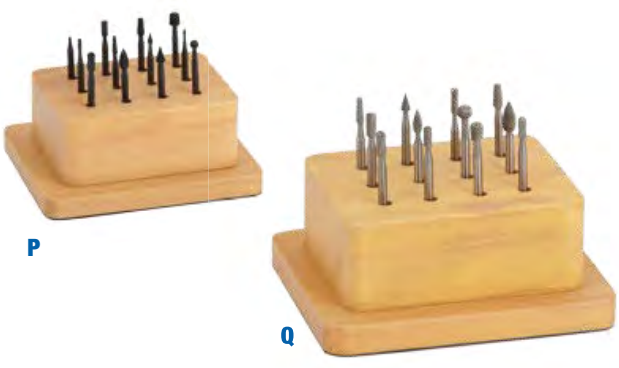
Description	Item#	Each
I. #7	**260-2700**	**$6.20**
J. #50	**260-2900**	**6.20**
K. #1	**260-2650**	**6.20**
L. #6	**260-2850**	**6.20**
M. #3	**260-2800**	**6.20**
N. #1/2	**260-2750**	**6.20**
6-Piece Set	**260-2600**	**21.95**

O

O. Busch® Wax Burs – 3/32" Shank

Made of tungsten vanadium steel. Very coarse cut for carving wax. Will not clog with wax like regular burs. Made in Germany.

Shape	Diameter (mm)	Item#	EACH Prices 1-71	72+
●	1.8	**121-8170**	**$4.19**	**$3.56**
●	2.3	**121-8180**	**4.19**	**3.56**
●	3.1	**121-8190**	**6.90**	**5.87**
●	5.0	**121-8200**	**8.28**	**7.04**



P

Q

P, Q Wax Bur Sets – 3/32" Shank

Each includes 12 different vanadium steel burs with teeth that are widely spaced to prevent clogging. Includes convenient wooden stand that keeps burs organized and accessible.

Description	Item#	Each
P. Small Bur Set of 12	**122-7151**	**$15.95**
Q. Large Bur Set of 12	**122-7150**	**25.15**

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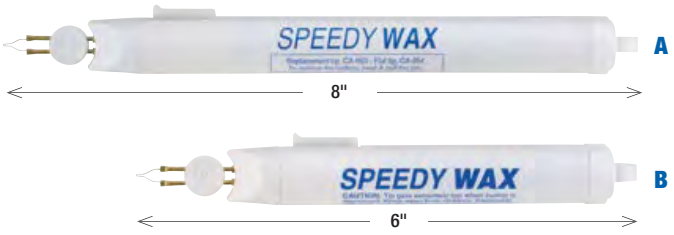
A, B Speedy Wax Pens

These lightweight wax-carving tools offer instant heat. Feature a pointed heating element that operates with fingertip control. Excellent for beads and details, removing flash and repairing mistakes. Tip is easy to replace. Standard Pen measures 6" long and runs on 1 AA battery (supplied). Super Pen measures 8" long and runs on 2 AA batteries (supplied). Made in USA.

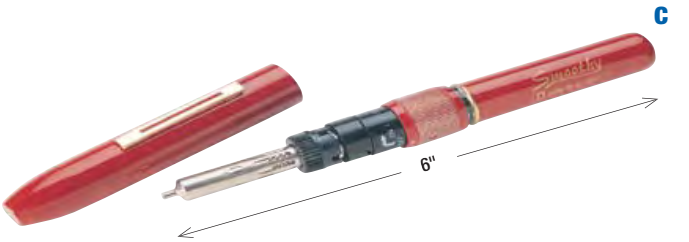
	Description	Temperature	Item#	EACH Prices 1-2	3+
A.	Super Pen	2,200°F	**265-2881**	**$28.00**	**$25.20**
B.	Pen	1,300°F	**265-2880**	**21.35**	**19.22**
	Replacement Tip		265-2885	5.95	5.36



C. Smoothy™ Flameless Wax Finisher/Mini Torch

A flameless jet of heated air gives you a smooth, scratch-free surface when passed over wax patterns. Blends parting lines without actually touching the wax. Remove tip and you have a pencil-point torch producing temperatures up to 2,300°F. Great for light soldering or minor casting repairs. Uses standard Butane fuel. UL registered. 6¾" overall.

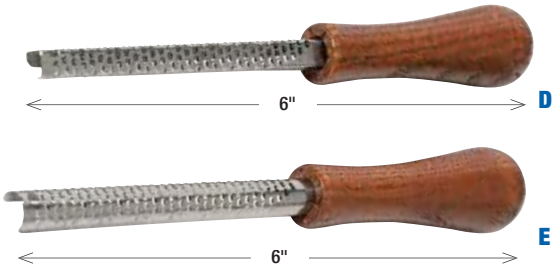
Description	Temperature	Item#	Each
Smoothy	2,300°F	**262-0500**	**$174.50**



D, E Wax Rasps – The fastest way to rough out wax models!

These rasps feature extra-sharp teeth for a fast cut with no clogging. Open back allows wax shavings to fall away quickly. Available in square or round. Both measure 6" long.

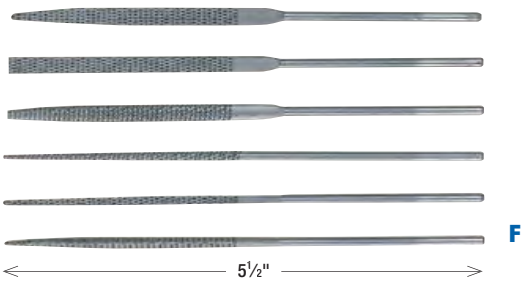
	Shape	Item#	Each
D.	Square	**260-3062**	**$8.95**
E.	Round	**260-3060**	**8.95**



F. Wax Needle File Set

High quality files for rough filing wax. Each file is 5½" long. Coarse, nonclogging. Set of six: crochet, equalling, half-round, round, square and three-square.

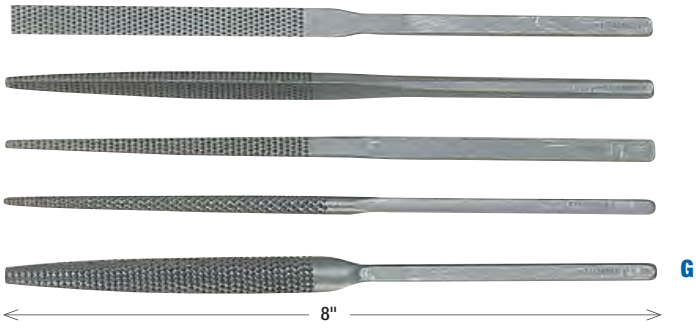
	Shape	Item#	Each
F.	Wax Needle File Set (Swiss)	**265-2335**	**$60.90**
	Econo Set (India)	**265-2315**	**9.95**



G. Large Wax File Set

Five large sized wax files for shaping wax. Set includes round, half-round, square, pillar and 3-square. Coarse, nonclogging. Measures 8" long. Swiss-made.

Description	Item#	Each
Large Wax File Set	**265-2337**	**$69.00**



H. Wax Carving File Set

Includes four files designed for precision wax carving. Their pen-like design provides optimal control. And their single-cut teeth never clog. Made of stainless steel. Measure 6¾" overall length, 1" cut length.

Description	Item#	Each
Wax Carving File Set	**260-2950**	**$21.05**

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A

B

A, B Ceramic Plastic Deflashing Tools – Works well on wax!

Each holds edge indefinitely and provides complete user safety. These tools feature space-age ceramics that debur hard plastics effortlessly while eliminating the fear of cutting your hands or fingers in the process. Ideal for curved and complicated shapes. Excellent on ultra-hard resins that defy carbon steel tools. Can also be used on soft metals such as aluminum, copper and brass. Available in two disposable sizes: large deflasher (6⅞" long with 1½" long cutting edge) has matte cutter-type handles; small deflasher (5¼" long with 1" long cutting edge) has a fluted, nonroll design.

	Description	Item#	Each
A.	Large Ceramic Deflasher	**351-0295**	**$32.95**
B.	Small Ceramic Deflasher	**351-0294**	**29.95**

C

C. All-in-One Swiveling Deburrer – With five tips

Deburs holes as small as 3⁄32" and removes sharp or rough edges from steel, aluminum, brass or iron parts. Comes with five curved, sharpened, high-speed steel tips made from ⅛" stock for long wear and less chance of breakage. Each tip swivels 360° either way to follow curves and contours. Handle has an internal storage compartment and a quick-tip-release feature. Measures 5" long.

Description	Item#	Each
All-in-One Swiveling Deburrer	**846-2050**	**$18.50**

D

D. Swiveling Wax Carver/Deburrer

This handy tool is great for radiusing and rounding off corners and edges, especially on insides of rings. Replaceable tip swivels 360° (forward or backward). Comes with large and small hardened tool steel tips. Metal handle measures ½" diameter x 5⅞" overall length.

Description	Item#	Each
Swiveling Wax Carver/Deburrer	**846-2055**	**$19.95**

E

F

E, F ALL CAST® Paint-on Pre-Coat Green & White

Gesswein's All Cast Pre-Coat White and Pre-Coat Green are a fine grained liquid investment for the sole purpose of enhancing the sharpness and detail of your castings. Both come in convenient 8 oz. jars with instructions right on the jar label. Use White for Gesswein's All Cast Investment (see p. 211) and Green for all other phosphate based investments.

	Description	Size	Item#	EACH Prices 1-3	4+
E.	All Cast Pre-Coat White	8 oz.	**265-4990**	**$24.50**	**$22.05**
F.	All Cast Pre-Coat Green	8 oz.	**265-4992**	**24.95**	**22.46**

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A. Akrovest Wax Wash

Spray on wax pattern to reduce surface tension, allowing complete adherence of investment to wax. Nonhazardous. Sold in 8 oz. spray bottle.

Description	Item#	Each
8 oz. Spray Bottle	**260-4520**	**$13.30**

A

B. Wax Kleen™

Rub this 100% organic solution on your wax patterns to polish them before casting. Removes scratches and leaves a clean, smooth surface. Pleasant citrus scent.

Description	Item#	Each
4 oz. Bottle	**261-9003**	**$7.80**
8 oz. Bottle	**261-9004**	**15.00**

B

C. Wax Wash

Brush on or dip wax pattern into Wax Wash to reduce surface tension, allowing complete adherence of investment to wax. Can be used whether flask will be vibrated or vacuumed.

Description		Item#	EACH Prices 1-3	4+
1 pt. Bottle	Ⓢ	**260-4555**	**$8.45**	**-**
1 qt. Bottle	Ⓢ	**260-4550**	**12.75**	**$10.20**

C

D. Wax Shine

This wax solvent removes fine scratches and polishes waxes to a smooth, bright luster. Use on carved wax originals to remove sandpaper scratches or file marks or to smooth injected wax patterns after repair. Can also be used to clean wax from rubber molds—will not harm rubber. Store in Dispensing Bottle #830-4525 to prevent evaporation.

Description		Item#	Each
8 oz. Bottle	Ⓢ	**261-9006**	**$10.95**

D

E. Dispensing Bottle

Plastic bottle holds Wax Shine or other solvents. Special stainless steel lid with one-way valve allows pumping of solution into shallow well on top of bottle. Ideal for dispensing solutions that would otherwise evaporate.

Description	Item#	Each
Dispensing Bottle	**830-4525**	**$23.95**

E

F. Ferris® Bubble-gard™

Spray Bubble-gard on your wax trees to create an invisible shield that protects against the formation of bubbles while investing. Won't foam under vacuum conditions. Produces totally smooth casting surfaces that are free of bumps and other imperfections. Nonflammable and biodegradable. Can be shipped ground or air nonhazardous.

Description	Item#	Each
16 oz. Spray Bottle	**261-9008**	**$18.90**
1 gal. Bottle	**261-9009**	**33.60**

F

Ⓢ *UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.* **W**

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A. Kelly Green Injection Wax

Extremely fluid wax easily fills both thick and thin intricate designs. Low ash content produces a very clean burnout for "snow white" flasks resulting in maximum flow when vacuum casting and reducing porosity. Unique color of Kelly Green is very "readable" for fine detail. Injection temperature: 155° to 160°F (68° to 71°C).

	PKG. of 5 lbs.			BOX of 50 lbs.		
Color	Item#	1	2+	Item#	1-4	5+
Kelly Green	**261-8149**	**$27.90**	**$26.51**	**261-8158**	**$229.90**	**$218.41**

B. Ferris® Turquoise Injection Wax

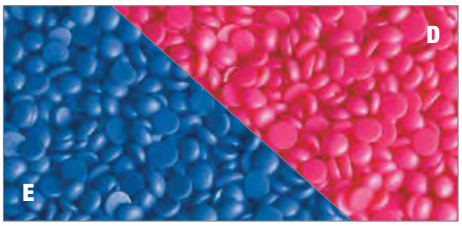
Super tough, medium-hard wax with built-in release agents. General purpose for both large and small molds. Injection temperature: 150° to 160°F (66° to 71°C).

	PKG. of 5 lbs.			BOX of 50 lbs.		
Color	Item#	1	2+	Item#	1-4	5+
Turquoise	**261-8143**	**$27.90**	**$26.51**	**261-8152**	**$229.90**	**$218.41**

C. Ferris® NYC Blue Injection Wax

Identical formulation as the Turquoise wax above, but in a bright readable blue made popular in the New York City area. Injection temperature: 150° to 160°F (66° to 71°C).

	PKG. of 5 lbs.			BOX of 50 lbs.		
Color	Item#	1	2+	Item#	1-4	5+
NYC Blue	**261-8145**	**$27.90**	**$26.51**	**261-8155**	**$229.90**	**$218.41**



D, E Ferris® Magnaject™ Pink and Blue Injection Waxes

Extremely fluid wax to fill the most intricate patterns—including filigree, even at low pressures. Minimal shrinkage. Durable, nonbrittle with long shelf life. Available in blue or pink. Injection temperature: 150° to 160°F (66° to 71°C).

	PKG. of 5 lbs.			BOX of 50 lbs.		
Color	Item#	1	2+	Item#	1-4	5+
D. Magnaject Pink	**261-8144**	**$33.20**	**$31.54**	**261-8153**	**$273.60**	**$259.92**
E. Magnaject Blue	**261-8146**	**33.20**	**31.54**	**261-8154**	**273.60**	**259.92**

F. Ferris® Blue Injection Wax

Specially formulated for intricate, detailed molds. Hard wax with excellent memory. Cools quickly, pulls easily from mold. Injection temperature: 150° to 160°F (66° to 71°C).

	PKG. of 5 lbs.			BOX of 50 lbs.		
Color	Item#	1	2+	Item#	1-4	5+
Blue	**261-8142**	**$27.90**	**$26.51**	**261-8151**	**$229.90**	**$218.41**

G. Ferris® Magna-Stone Set™ Injection Wax

Exceptionally fluid, durable and nonbrittle low ash wax for stone-in-place casting. Fills delicate patterns and holds stones without distortion. Inject at pressures as low as 2 lbs. to eliminate mold lines. Built-in release agent. Injection temperature: 156-158°F (69°-70°C).

	PKG. of 5 lbs.			Box of 50 lbs.		
Description	Item#	1	2+	Item#	1-4	5+
Magna-Stone	**261-8141**	**$33.20**	**$31.54**	**261-8159**	**$273.60**	**$259.92**

H. Ferris® Plastic Injection Wax

This plastic-type wax combines the excellent flow characteristics of wax and the durability of plastic. Minimum shrinkage, excellent memory and flexibility. Long shelf life before and after injection. Releases easily from molds. Melting point: 155°-160°F. Injection temperature: 150° to 160°F (66° to 71°C).

		PKG. of 5 lbs.		
Description	Item#	1-9	10-49	50+
Plastic Injection Wax	**261-8130**	**$40.95**	**$36.86**	**$32.76**

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A. Castaldo® Plast-O-Wax®

Castaldo Plast-O-Wax produces patterns that are very flexible, resilient and durable with great memory and does not become brittle over time. Fewer broken patterns equal greater productivity. A unique all-purpose injection wax that combines excellent flow and fill qualities with the stability of plastic while producing smooth glossy surfaces, crisp detail and minimal shrinkage. Great for stone-in-place casting. Injection temperature: 155° to 160°F (68° to 71°C).

Description	Item#	2kg Box	Item#	20kg Box
Plast-O-Wax	**261-8137**	**$25.00**	**261-8136**	**$205.00**

B. Freeman® General-Purpose Flakes™

This all-purpose injection wax is Freeman's most popular formulation as it provides the ideal balance of characteristics demanded by most designers and casters. Also recommended for stone in place casting. Low shrinkage with excellent flow and long pattern shelf life. Aqua is the most popular color while Turquoise and Ruby Red are for designers and casters who prefer darker colors for easier visual verification of fine detail. Injection temperature: 150ºF (65ºC).

				BOX of 50 lbs.		
Description	Item#	5 lb. Box	Item#	1	2-9	10+
Ruby Red	**261-9321**	**$29.79**	**261-9320**	**$268.00**	**$241.20**	**$227.80**
Turquoise	**261-9325**	**29.79**	**261-9324**	**268.00**	**241.20**	**227.80**
Aqua	**261-9323**	**29.79**	**261-9322**	**268.00**	**241.20**	**227.80**

C. Freeman® Flexible Blue Flakes™

Features the longest shelf-life and the highest flexibility of the Freeman Flakes line so it will not break during removal from the mold. This unique mixture of wax and plastic is especially well-suited for metal molds and stone in place casting. Very long pattern shelf life. Injection temperature: 155ºF (68ºC).

				BOX of 50 lbs.		
Description	Item#	5 lb. Box	Item#	1	2-9	10+
Flexible Blue	**261-9327**	**$31.50**	**261-9326**	**$280.00**	**$252.00**	**$238.00**

D. Freeman® Tuf Guy Green Flakes™

This is the toughest wax of the Freeman Flakes line. Its accuracy and durable, yet flexible characteristics make it ideal for large pieces. Excellent memory and high flexibility allow easy pattern removal from any mold. Low shrinkage, good flow. Injection temperature: 165ºF (73ºC).

				BOX of 50 lbs.		
Description	Item#	5 lb. Box	Item#	1	2-9	10+
Tuf Guy	**261-9329**	**$29.79**	**261-9328**	**$268.00**	**$241.20**	**$227.80**

E. Freeman® Super Pink Flakes™

Featuring the quickest solidification, this wax will not give, making it ideal for clasps, claws, and bezel settings. Also, the opacity makes this wax superior in readability. Superior flow and fast solidification. Injection temperature: 150ºF (65ºC).

				BOX of 50 lbs.		
Description	Item#	5 lb. Box	Item#	1	2-9	10+
Super Pink	**261-9331**	**$31.50**	**261-9330**	**$280.00**	**$252.00**	**$238.00**

F. Freeman® Filigree Pink Flakes™

This wax combines the flexibility of Tuf Guy Green with the excellent flow characteristics of Aqua General-Purpose flakes, producing very high detail while enabling easy pattern removal without breakage. Recommended for stone in place casting. Injection temperature: 155ºF (68ºC)

				BOX of 50 lbs.		
Description	Item#	5 lb. Box	Item#	1	2-9	10+
Filigree Pink	**261-9333**	**$29.79**	**261-9332**	**$268.00**	**$241.20**	**$227.80**

G. Freeman® Carvable Purple Flakes™

Developed for designers and casters who often rework wax patterns, this wax offers superior carvability with minimal filling or clogging of tools. Also, with the highest injection temperatures of the Freeman Flakes line, it will not break under stress and enables easier handling. Excellent flow and flexibility, low shrinkage and long pattern shelf life. Injection temperature: 170ºF (77ºC).

				BOX of 50 lbs.		
Description	Item#	5 lb. Box	Item#	1	2-9	10+
Carvable Purple	**261-9335**	**$31.50**	**261-9334**	**$280.00**	**$252.00**	**$238.00**

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A

A. ARBE Hand Pump Wax Injector

A well-built hand pump wax injector with an air pressure gauge that reads up to 30 PSI and an ultra-sensitive thermostat that ensures precise and consistent temperature control up to 250°F. Insert a thermometer in the port on the cover (not included; consider #210-2255 (see p. 199). Designed for great reliability with ceramic mica heating elements, heated sealed nozzle, fully insulated cast-aluminum pot and powder-coated steel outer drum. Also includes on/off switch, power indicator light and spigot drain. Made in USA.

Specifications:

Wax Capacity	2¾ qts. (5½ lbs.)
Electrical	110V, 6A, 660W, 50/60Hz or 220V, 3A, 660W, 50/60Hz
Dimensions	10½" dia. by 14"H

Description	Item#	Each
Hand Pump Wax Injector, 110V	**265-4950**	**$540.00**
Hand Pump Wax Injector, 220V	**265-4951**	**540.00**

B

B. Gesswein Hand Pump Wax Injector

An easy-to-use, economical hand pump wax injector for rubber and metal molds. Thermostatically controlled low, medium and high settings keep wax at desired temperature. To operate, hold mold on nozzle and gently depress plunger to propel the wax into the mold. Includes pilot light. Has wax capacity of 1 lb. (1pint). Requires thermometer such as #210-2255, p. 199.

Specifications:

Wax Capacity	1 pint (1 lb.)
Electrical	110V, 2A, 220W, 50/60Hz
Dimensions	6" dia. x 8"H

Description	Item#	Each
B. Hand Pump Wax Injector	**265-2235**	**$310.00**

C

D

C, D Air Pressure Wax Injectors

Feature a thermostat for accurate temperature control up to 230°F, sensitive air pressure regulator and gauge, heavy-wall aluminum pot, heated nozzle, safety valve, drain cock, drip guard and power indicator light. Require an air compressor such as #265-3100 (see p. 199) and a thermometer such as #210-2255 (see p. 199). Made in Taiwan.

Specifications:	3-Quart	4-Quart
Wax Capacity	3 qts. (6 lbs.)	4 qts. (8 lbs.)
Electrical	120V, 9A, 60Hz	120V, 7A, 60Hz
Dimensions	12" dia. x 18"H	12⅜" dia. x 19¾"H

Description	Electrical	Item#	Each
C. 3-Quart Injector	120V	**265-2174**	**$455.00**
D. 4-Quart Injector	120V	**265-2179**	**575.00**

E

F

E. Mini Air Pressure Wax Injector

Just as efficient as many larger injectors. Features a thermostat for accurate temperature control up to 230°F, sensitive air pressure regulator and gauge, heavy-wall aluminum pot, heated nozzle, safety valve, drain cock, drip guard and power indicator light. Requires an air compressor such as #265-3100 (see p. 199). Made in Taiwan.

Specifications:

Wax Capacity	1¼ qts. (2.5 lbs.)
Electrical	120V, 3A, 60Hz or 240V, 1.5A, 50/60Hz
Dimensions	8" dia. x 14"H

Description	Electrical	Item#	Each
E. Mini Injector	120V	**265-2171**	**$315.00**
	240V	**265-2173**	**345.00**

F. Universal Debubbler Valve – For Wax Injectors

Are air bubbles ruining your waxes? Attach this valve to your wax injector, hook up to your vacuum pump and vacuum out all the bubbles for perfect wax patterns.

Description	Item#	Each
Universal Debubbler Valve	**260-3375**	**$64.95**

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A. Digital Vacuum Wax Injection System

Increases production by eliminating wax pattern defects!

An advanced system for delivering consistent, repeatable wax patterns with the best possible surface finish. Draws air out of the mold before injection, eliminating the air bubbles that result in wax pattern defects. Injects wax immediately after vacuuming to ensure a complete fill. Performs two-stage injection to compensate for shrinkage.

Offers both manual and automatic modes with the ability to set the following parameters for different molds: wax and nozzle temperatures, vacuum and injection times, injection pressures, clamp holding time, clamp holding pressure and clamp forward pressure.

System consists of digital vacuum wax injector, digital pressure controller auto clamp and foot pedal. Accommodates up to 3⅛" x 3⅞" x 1¼" rubber molds. Requires air compressor such as SilentAire #265-3100 and vacuum pump such as Oil-less #265-2255 (see p. 250).

A

Specifications:

Wax Capacity	3 qts. (6 lbs.)
Electrical	120V, 10A, 60Hz or 240V, 5A, 50/60Hz
Dimensions	
Wax Injector	21½"W x 15"D x 17½"H
Controller	8¼"W x 13½"D x 7½"H
Clamp	6¼"W x 7"D x 8¼"H
Net Wt.	72 lbs.

	Description	Electrical	Item#	Each
A.	Complete System	120V	**265-4144**	**$4,125.00**
		220V	**265-4145**	**4,500.00**
	Wax Injector only	120V	**265-4140**	**2,200.00**
		220V	**265-4141**	**2,500.00**
	Controller/Clamp only	120V	**265-4142**	**2,400.00**
		220V	**265-4143**	**2,500.00**

B. SilentAire Compressor – Quiet yet powerful!

Premium value model with cooling fins for improved ventilation and Filter-Regulator with auto-drain feature and condensate bottle. Coalescent Filter to 0.01 micron.

So quiet you'll barely know it's there. Makes about as much noise as a refrigerator, so you can keep it under your table and work without distraction. Features powerful 1/2 HP motor that provides over 2 CFM of air. Handles up to 10 large Wax Injectors. Fully automatic. Includes handle for easy carrying. Measures 13" dia. x 25"H. Weighs 58 lbs. May require additional filter at the air tool to eliminate condensation that can form in very long airlines (see page 248). Accepts ¼" male fittings (see page 249). Made in Italy.

B

Features:

- Tank and line pressure gauge
- Line pressure regulator
- Moisture trap and filter
- Safety valve
- Air-intake filter

Specifications:

Motor	1/2 HP
Max. Pressure	114 PSI
Tank Capacity	4 gals.
Displacement	2.15 CFM
Noise Level	40 dB

	Description	FOB	Electrical	Item#	Each
B.	SilentAire Compressor	CT	110V	**265-3100**	**$1,175.00**
	SilentAire Compressor	TX	110V	**265-3101**	**1,145.00**
	SilentAire Compressor	CT	220V, 50/60Hz	**265-3102**	**1,225.00**
	Replacement Oil, 22 oz.			265-3103	27.00

C. Injector Cleaning Wax

Quick and easy method of eliminating all traces of injection wax from wax pots and injectors. This soft, white, translucent wax removes even the most stubborn wax residues. Excellent purging wax for large injectors. Has a melting temperature of approximately 130°F. Supplied in 5 lb. box.

C

Description	Item#	EACH Prices 1	2+
Injector Cleaning Wax	**261-9000**	**$37.00**	**$33.30**

D. Dial Thermometer

Stainless steel, with a temperature range of 50°F to 400°F. Use to accurately measure wax temperature and to calibrate vulcanizer platen temperature. Measures 8" overall length.

D

Description	Item#	Each
Dial Thermometer	**210-2255**	**$15.95**

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A

A. Castaldo® VLT™ – Silicone Rubber - For Resin Models

Castaldo VLT (Very Low Temperature) Silicone Mold Rubber vulcanizes at 160°F (71°C), allowing you to make long-lasting production molds directly from CAD/CAM and Rapid Proto type plastic resin models, without risk of model damage. Speeds your designs from computer concept to production in hours, not days. Easy to pack and cut. Shrinkage is only 0.1%. Produces highly detailed wax injections with extraordinarily shiny surfaces that require less finishing. Available in 2⅞"W x 18"L x ⅜" thick strips. Sold in boxes of 5 lbs.

		BOX of 5 lbs.		
Description	Item#	1	2-9	10+
Strips (2⅞" x 18")	**260-1487**	**$48.00**	**$43.20**	**$38.40**

B

B. Castaldo® Titanium Label™ – Natural Rubber - For High Pressure Injection

Castaldo Titanium Label natural gum rubber packs, cuts, bends, flexes and stretches just like Gold and White, but because Titanium is so much harder after vulcanization, you can use higher clamp pressures, higher injection pressures and lower wax temperatures. There's no pattern distortion, even on multi-part molds, and much less shrinkage—only 1.4%! Fine details won't move or distort, and very thin sections will stay open and fill more easily. Ideal for filigree and hard-to-fill models. Vulcanize at 310°F for 15 minutes per ¼" of mold frame thickness. Sold in boxes of 5 lbs.

		BOX of 5 lbs.		
Description	Item#	1	2-9	10+
Strips (2⅞" x 18")	**260-1462**	**$51.00**	**$48.45**	**$45.90**
Ready Cut (1⅞" x 2⅞")	**260-1476**	**59.00**	**56.05**	**53.10**

C

C. Castaldo® Rapido™ – Silicone Rubber - For Fast Production, Ready in 15 minutes!

A very fast version of Castaldo silicone jewelry mold rubber that can speed up your work significantly. Rapido cures into tough, strong production rubber molds in as little as 15 minutes so you can get your models into production fast. ½" molds are fully cured in 10 minutes, ¾" molds in 15 minutes and 1" molds in just 20 minutes. Like all Castaldo Silicone Rubbers, Rapido makes detailed wax injection with an extraordinarily shiny surface that requires less finishing. Waxes are self releasing and molds need no release spray or powder. Vulcanize at 200°F / 93°C. Makes molds with a rubber shrinkage rate of only 1.4%. Available in strips measuring 2⅞" W x 18" L x ⅜" thick. Sold in boxes of 5 lbs.

		BOX of 5 lbs.		
Description	Item#	1	2-9	10+
Strips (2⅞" x 18")	**260-1488**	**$46.75**	**$42.08**	**$37.40**

D

D. Aluminum Mold Frames

Predrilled holes in sides allow excess rubber to escape during vulcanization, helping to prevent model deformation. Measurements denote mold sizes.

Description	L x W x Thickness	Item#	Each
D. Single Frame	2⅞" x 1⅞" x ¾"	**260-2200**	**$10.50**
	2⅞" x 1⅞" x 1"	**260-2300**	**11.50**
	2⅞" x 1⅞" x 1¼"	**260-2400**	**14.50**

E. Castaldo® Mold Locks

Insert one of these brass cones into each corner of your rubber mold. They will form locks to prevent mold shifting during injection. May be used alone or with powder for easier separation after vulcanizing. Each bag contains ¼ cup (3 oz.) of Mold Locks, equalling approximately 150 pieces.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Castaldo Mold Locks	**260-1350**	**$17.25**	**$16.39**	**$15.53**

E

F. Sprue Formers and Rods

Machined from solid brass. Slight difference in size of sprue former allows you to select the size that more closely matches your wax injector nozzle making it easier to maintain contact between the mold and nozzle. #9 is 9mm (.35") high and tapers from 3.3mm (1/8") to 11.5mm (.45") while #10 is 10mm (.39") high and tapers from 3.3mm (1/8") to 14mm (.55"). Matching 3mm (.118") diameter by 50mm (approx 2") long rods are included. Sold in packages of 10.

F

Style	Sprue Former Taper x Height (mm)	Rod Dia x L (mm)	Item #	Pkg of 10
# 9	3.3 – 11.5 x 9	3 x 50	**260-3092**	**$14.50**
#10	3.3 – 14 x 10	3 x 50	**260-3093**	**14.50**

G. Rubber Mold Locking Pins

This is the fastest, easiest way to automatically form locks in your rubber molds! Pack your mold normally, then push one of these solid stainless steel pins into each corner of the mold before vulcanizing. Use these 23mm pins for 1⅛" to 1½" thick molds. Sold in set of 4 pins.

			SET Prices	
Description	Dia x L (mm)	Item#	1-2	3+
Rubber Mold Locking Pins	7 x 23mm	**265-0856**	**$13.50**	**$10.80**

G

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A, B Castaldo® Gold Label® – Natural Rubber

Contains more pure natural gum rubber than Castaldo White Label, making Castaldo Gold softer and more pliable. The superior qualities of Castaldo Gold make it the ideal rubber for difficult molds containing undercuts, filigree or multiple settings. Easy to pack and highly flexible so that wax patterns release smoothly. Vulcanize at 310°F for 15 minutes per ¼" of mold frame thickness. Rubber is ⅛" thick. Also available in rolls. Call for more info.

	Description	Item#	BOX of 5 lbs. 1	2-9	10+
A.	Strips (2⅞" x 18")	260-1460	$46.50	$44.18	$41.85
B.	Ready Cut (1⅞" x 2⅞")	260-1480	49.50	47.03	44.55

C, D Castaldo® White Label® – Natural Rubber

A high concentration of pure natural gum rubber makes Castaldo White firm but flexible. A good all-purpose mold rubber that cuts well. Well-suited for thin molds. Vulcanize at 310°F for 15 minutes per ¼" of mold frame thickness. Rubber is ⅛" thick. Also available in rolls. Call for more info.

	Description	Item#	BOX of 5 lbs. 1	2-9	10+
C.	Strips (2⅞" x 18")	260-1450	$44.50	$42.28	$40.05
D.	Ready Cut (1⅞" x 2⅞")	260-1475	47.00	44.65	42.30

E. Castaldo® No-Shrink Pink® – Natural Rubber

Specially formulated for less than 1% shrinkage! Can be used alone or combined with Castaldo Gold or White rubber to reduce shrinkage and save money. Use No-Shrink Pink around the model and Castaldo White or Gold for the outside of the mold. Vulcanize at 290°F for 12 minutes per layer of rubber. Note: This natural rubber must be vulcanized at precisely 290°F. Use a thermometer to check your vulcanizer accuracy.

	Description	Item#	BOX of 5 lbs. 1	2-9	10+
E.	Strips	260-1455	$52.60	$49.97	$47.34
	Ready Cut	260-1485	54.50	51.78	49.05

F. Castaldo® SuperStretch™ – Silicone Rubber

SuperStretch™ rubber's high shine finish means less polishing. Cuts like butter. Easy mold packing/easy mold cutting. Low rubber shrinkage-only 1.3%. Compatible with other Castaldo silicone molding rubbers; can be used alone or used as an insert for special projects. Vulcanize at 330°F for 15 minutes per layer.

Description	Item#	BOX of 5 lbs. 1	2-9	10+
Strips (2⅞" x 18")	260-1489	$44.50	$42.28	$40.05

G. Castaldo® Econosil® – Silicone Rubber

This putty-like material is a harder, firmer, more affordable version of Castaldo Super High Strength silicone mold rubber. Makes strong production rubber molds with 1.1% shrinkage. Gives waxes a high-shine finish for easy release from molds without messy sprays or powders. Brick-red in color. Vulcanize at 330°F for 15 minutes per layer of rubber.

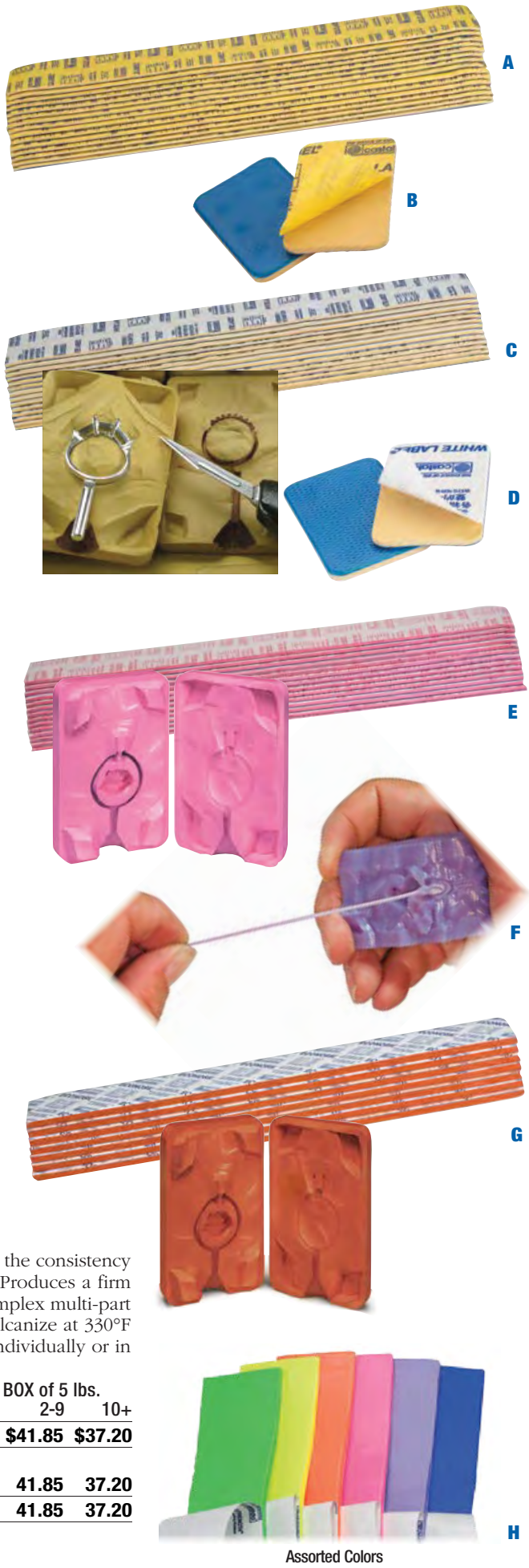
Description	Item#	BOX of 5 lbs. 1	2-9	10+
Strips (2⅞" x 18")	260-1660	$47.00	$44.65	$42.30

H. Castaldo® Gelato Super High Strength™ – Silicone Rubber

This silicone-based rubber makes molds that cut like butter. Uncured, it has the consistency of soft putty, making it very easy to pack in undercuts and detailed areas. Produces a firm mold with excellent flexibility and tear strength. Strong enough to make complex multi-part molds. Gives waxes a smooth, shiny finish for easy release from molds. Vulcanize at 330°F for 15 minutes per layer of rubber. Strips measure 2⅞" x 18". Gelato sold individually or in set (yellow/tan not included in set).

Description	Item#	BOX of 5 lbs. 1	2-9	10+
Pistachio	260-1490	$46.50	$41.85	$37.20
Lemon	260-1491	46.50	41.85	37.20
Peach	260-1492	46.50	41.85	37.20
Fuchsia	260-1493	46.50	41.85	37.20
Violet	260-1494	46.50	41.85	37.20

Description	Item#	BOX of 5 lbs. 1	2-9	10+
Blue	260-1495	$46.50	$41.85	$37.20
Assorted Colors	260-1496	46.50	41.85	37.20
Yellow/tan	260-1470	46.50	41.85	37.20



Assorted Colors

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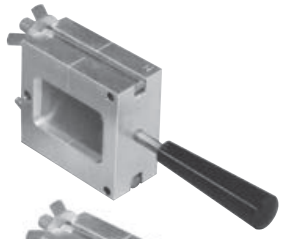
A

B

C

D



E

F

Jewelry not included.

G

H

A-C Castaldo® Moldmatic® Ready Made Molds™ – Natural Rubber

A two-part system consisting of Ready Made Molds with preformed locks and Moldmatic Mold Frames. Mold cutting time and effort are greatly reduced. The mold halves fit together perfectly in a precision-engineered mold frame for consistently perfect wax patterns. The same high quality natural Castaldo mold rubber known throughout the world, but now prefabricated and ready to use. Mold locks are preformed. Merely remove the protective cloth squares at the center of the mold and insert your model. After vulcanization, simply pull the edges of the mold apart to expose perfectly formed locks. The center of the mold is cut normally. Sold in boxes of 10 molds along with 10 extra pieces of rubber so that any thickness mold can be made. You must use Ready Made Molds with Moldmatic Frames.

				Box of 10		
White Label	Dimensions	Item#	1-2	3-4	5-9	10+
A. Small	1⅞" x 2⅞"	**260-1430**	**$63.00**	**$59.85**	**$56.70**	**$50.40**
Medium	2⅜" x 3"	**260-1432**	**78.00**	**74.10**	**70.20**	**62.40**
Gold Label	**Dimensions**	**Item#**	**1-2**	**3-4**	**5-9**	**10+**
Small	1⅞" x 2⅞"	**260-1440**	**$63.00**	**$59.85**	**$56.70**	**$50.40**
B. Medium	2⅜" x 3"	**260-1442**	**78.00**	**74.10**	**70.20**	**62.40**
Large	2⅞" x 3⅜"	**260-1444**	**89.00**	**84.55**	**80.10**	**71.20**
No-Shrink Pink Label	**Dimensions**	**Item#**	**1-2**	**3-4**	**5-9**	**10+**
Small	1⅞" x 2⅞"	**260-1416**	**$63.00**	**$59.85**	**$56.70**	**$50.40**
Medium	2⅜" x 3"	**260-1422**	**78.00**	**74.10**	**70.20**	**62.40**
C. Large	2⅞" x 3⅜"	**260-1424**	**89.00**	**84.55**	**80.10**	**71.20**

D, E Castaldo® Moldmatic® Ready Made Mold Frames

Size	Mold Dimensions	Item#	Each
D. Small	1⅞" x 2⅞"	**260-1830**	**$186.00**
Medium	2⅜" x 3"	**260-1835**	**195.00**
Large	2⅞" x 3⅜"	**260-1840**	**216.00**
E. Double Small	Both 1⅞" x 2⅞"	**260-1845**	**485.00**

F. Castaldo® Quick-Sil™ RTV Jewelry Molding Rubber – Mold Putty

Two-part silicone mold rubber that cures in just 15 minutes—without heat! Quick-Sil is soft and pliable, so it's easy to mix and easy to pack even complicated models. Because no heat is used, there is absolutely no shrinkage. Tear resistance is equal to any standard silicone mold rubber. Molds require some pressure to make a good impression of the model. Safe, nonhazardous, nontoxic. Use standard mold frames. Available in 2 lb. kit (1 lb. each of Part A and Part B) to make 3-4 standard size molds.

		EACH Prices		
Description	Item#	1-2	3-4	5+
Quick-Sil RTV	**260-1675**	**$68.00**	**$64.60**	**$61.20**

G. Castaldo® Mold Separation Cream – Eliminate or reduce mold cutting.

With Castaldo Mold Separation Cream, you may never have to handle a sharp mold knife again. Pack your model normally. When you have established a parting line between the 2 halves, spread a small amount of Mold Separation Cream on one surface with a fingertip or small brush. After the mold is vulcanized, insert a screwdriver into the parting line and peel the halves apart. Castaldo Mold Separation Cream can be used to separate the entire mold or just part of the mold, including locks. May be used with or without mold lock formers and on any type of mold rubber. Nontoxic, nonhazardous. Net Wt. 1 oz.

Description	Item#	Each
Castaldo Mold Separation Cream	**260-1401**	**$11.00**

H. Castaldo® Resin Release™ Spray – Apply to models before packing

Although designed specifically for use on Castaldo VLT silicone mold rubber, Castaldo Resin Release Spray also acts as a protectant on Rapid Prototype models. RP and resin models should be tested before using liquid mold rubber. Some RP and resin model materials will react with the liquid rubber becoming gummy, distorted or bond destructively to their molds. To prevent this problem, spray Resin Release onto models shortly before vulcanizing, helping you make production-quality molds directly from CAD/CAM resin and wax models. Natural soy-based formula, nonflammable, biodegradable. Sold in 340g cans.

Description		Item#	Each
Resin Release Spray	(H)	**816-2917**	**$14.95**

(H) *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

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A. Castaldo® LiquaFast™ ICE RTV

New Liqua*Fast*™ ICE from CASTALDO® is a transparent blue two-part 0% shrinkage RTV silicone molding rubber that cures very rapidly at normal room temperature (73°F) and cures even faster at 120°F. You can make a mold from your CAD CAM, RP and SLA models in the morning, inject waxes 30 minutes later and cast them that afternoon. No more waiting.

Features:

- New LiquaFast ICE makes strong, tough, tear-resistant permanent molds that do not decay with age.
- LiquaFast ICE's low viscosity makes it easy to measure, mix and pour.
- Normal cure time: Only 60 - 90 minutes.

Specifications:

Shrinkage: 0.0%
Working time at 73° F/23° C: 15 minutes
Setting time at 73° F/23° C: 60 - 90 minutes
Setting time at 120° F/50° C: 30 minutes
Mixing Ratio: 1:1 by weight

Description	Item#	Each
A. Castaldo LiquaFast ICE RTV 1kg Kit	**260-1682**	**$56.95**

A

B. Castaldo® LiquaCast Long-Life – RTV

LiquaCast Long-Life makes molds that are extremely strong, tough and tear-resistant. Molds will not soften or liquefy over time and will last for decades!

Perfect for complex molds, difficult undercuts, spirals and cores. It is compatible with most computer-generated CAD-CAM resin and difficult to mold CAD-CAM wax patterns. Molds have a glossy, shiny surface that produces waxes with a glossy, shiny surface. Final castings require less polishing. Rubber shrinkage is 0%. Low viscosity makes it easy to measure, easy to mix, easy to vacuum and easy to pour. Mix ratio is 1:1 by weight or volume. Cure time is 24 hours. Rapid cure time @150˚F (65˚C) is just 90 minutes. Use with Castaldo Liquid Rubber Mold Frames (below).

Description	Item#	Each
B. 1kg Kit	**260-1671**	**$66.50**
8kg Kit	**260-1672**	**175.50**
20kg Kit	**260-1673**	**425.50**

B

C. Castaldo® Original LiquaCast™ Liquid RTV Mold Rubber

A two-part liquid mold rubber that vulcanizes without pressure at room temperature. Use it to make molds of waxes, organics, plastics, and anything that cannot withstand the heat/pressure of normal vulcanization. Contains no silicone and makes a stronger, more durable mold than standard liquid mold rubbers. 0% Shrinkage. Cures in 16–24 hrs. Requires vacuuming. Use with Castaldo Liquid Rubber Mold Frames (below). Use Castaldo Resin Release Spray (816-2917) to protect Rapid Prototype models (see facing page).

Description	Item#	Each
C. 1 lb. Set	**260-1662**	**$41.00**
10 lb. Set	**260-1664**	**117.00**

C

D. Freeman Jewel-Sil RTV Molding Rubber

A two-part clear silicone rubber for room temperature vulcanization of your jewelry molds. Reproduces intricate details with close tolerances. Features low viscosity for easy pouring, excellent clarity for precise cutting, high tear strength and ability to endure temperatures up to 350°F. Mix and use within an hour. Cures in 24 hours with less than 0.1% shrinkage.

Description	Item#	Each
D. 1kg Kit	**261-9347**	**$49.95**
5kg Kit	**261-9348**	**265.00**

D

E. Castaldo® RTV LiquaGlass™ – Crystal-clear liquid mold rubber

Castaldo LiquaGlass professional nonsilicone liquid rubber produces strong, flexible production molds at a mere fraction of the price of clear silicone rubber. Allows you to see models as you cut for easier mold making. Not much thicker than water, it mixes easier than traditional liquid rubber (use vacuum to remove air bubbles). 0% shrinkage. Made for easy pouring and mixing in 1:1 ratio. Needs just 45–60 minutes of work time. Requires 24 hours of cure time for best results. Use with Castaldo Liquid Rubber Mold Frames (below).

Description	Item#	Each
LiquaGlass 1kg kit	**260-1685**	**$72.00**

E

F. Castaldo® Liquid Rubber Mold Frames

Each consists of a solid aluminum U-frame with built-in sprue former, two pieces of heavy-duty clear plastic and industrial bands. Made extra-tall to allow expansion of liquid rubber during vacuuming—no more spills. Eliminate need for paper collars. Available in four thicknesses: ¾", 1", 1¼" and 1½". All make molds up to 1⅞"W x 6"H.

Thickness	¾"	1"	1¼"	1½"	Each
Item#	**260-1661**	**260-1663**	**260-1665**	**260-1667**	**$17.25**

F

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A-C Knife Handles

Hold Swann Morton Knife blades securely.

	Description	Item#	Each
A.	B-P #5 USA Contoured Plastic	260-3050	$27.00

	Description	Item#	EACH Prices 1-5	6+
B.	Imported Contoured Plastic	260-3052	$5.30	$4.77
C.	Stainless Steel Knife Handle	260-3055	3.55	3.20

D-F Swann Morton® Knife Blades

High-carbon steel surgical blades (non-sterilized) for precise mold cutting. Last much longer and are sharper than stainless steel blades. Available in packages of 5 blades or in individually wrapped boxes of 100. Blades fit either Plastic or Stainless Steel Handles (above) Cannot be used with Contoured Heavy-Duty or Soft Grip Knives.

	Blades	Item#	Pkg. of 5	Item#	BOX of 100 1-4	5-9	10+
D.	#11 Straight	260-2951	$1.85	260-2952	$24.95	$23.70	$22.46
E.	#12 Curved	260-3001	1.85	260-3002	24.95	23.70	22.46
F.	#10A Wide-Angle Straight	260-3006	1.85	260-3005	24.95	23.70	22.46

G, H Heavy-Duty Knife and Blades

Plastic knife handle contoured to fit your hand. The B-P #6 USA knife handle only accepts heavy-duty #25 steel blades. Exclusive "rib-back" design adds strength to these blades, making them the most durable mold cutting blades available.

	Description	Item#	Pkg. of 6	Item#	BOX of 150 1-4	5-14	15+
G.	#25 Blades	260-2999	$6.00	260-3000	$116.50	$108.35	$104.85

	Description	Item#	Each
H.	B-P #6 USA Knife Handle	260-3051	$27.30

I-K Soft Grip Knife

Round with comfortable, nonslip, soft grip handle. Blades are held securely and locked or released by turning knurled knob at rear of handle. Comes with one #11 knife blade. Measures 4¾" overall length without blade. Color: blue.

	Description	Item#	Each
I.	Soft Grip Knife with #11 Blade	260-3040	$4.95

	Blades for Soft Grip Knife Handle	Item#	Pkg. of 5
J.	#11 Steel Blade	260-3045	$2.10
K.	#16 Steel Blade	260-3048	2.10

L. Mold-Mate® Junior

A third hand for mold cutting, Mold-Mate Junior is a springless tension clamp with specially designed teeth to ensure a positive grip on molds without tearing the rubber.

To use, mount the chain holder 10½" from the edge of the cutting surface to provide the necessary tension for holding the mold open securely with less effort. Kinkless steel ball chain improves rotation of mold and speeds up cutting time..

	Description	Item#	Each
L.	Mold-Mate Junior	260-2579	$35.50

M. Cuttlefish Bone

For casting small objects by pressing model directly into cuttlefish. Soft shell makes a smooth-walled mold. Cut sprues, gates and vents into the wall with a sharp knife. Supplied in random sizes. Package contains 4-6 pieces weighing approx. ½ lb. total.

Description	Item#	Each
Cuttlefish Bone	265-3000	$22.50

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A. Castaldo® Mold Release Spray

Castaldo mold release spray is pure silicone oil in an aerosol can for use in releasing wax patterns from rubber or metal molds. Safe, non-toxic, colorless, odorless, greaseless. Will not damage molds made of natural mold rubber. Contains no CFCs nor VOCs.

Description		Item#	EACH Prices 1-11	12+
Castaldo Mold Release Spray	(H)	**816-2915**	**$12.75**	**$12.11**

A

B. Sprits GF Mold Release Spray

Sprits all-purpose GF, gentle formula, mold release spray is a heavy-duty, food grade, non-paintable, silicone spray compatible with solvent-sensitive thermoplastics. Ultra-fine atomization for uniform coverage, fast drying. Contains no CFCs.

Description		Item#	Each
Sprits Mold Release Spray 12 oz. can	(H)	**816-2925**	**$9.30**
Sprits Mold Release Spray (case of 12)	(H)	**816-2938**	**104.00**

B

C

C. Econo Mold Clamp

This handy little clamp holds standard rubber molds firmly for wax injection, applying even pressure across the entire mold. Accommodates rubber molds up to 1⅞" thick. Includes heavy-duty spring latch for quick loading and release.

Description	Item#	Each
Econo Mold Clamp	**260-2575**	**$27.00**

D

D. Talc Powder

Brush or dust onto your rubber molds to permit easy removal of waxes and to open vents. Also used as a separating powder. 5 lb. bag.

Description	Item#	Each
Talc Powder	**260-1375**	**$16.50**

E

E. Wax Injection Mold Plates

Thick, well-finished aluminum plates for uniform pressure on your rubber mold during wax injection. Each set contains 2 plates, 12-gauge thickness, 3"L x 1¾"W.

Description	Item#	Set of 2
Wax Injection Mold Plates	**265-2340**	**$2.95**

F. PEPETOOLS Mold Vise

A fast and simple way to learn rubber mold cutting. Cut a line about ⅛" to ¼" deep around the perimeter of the mold. Then fasten the aluminum clamps onto the edges of the mold at the sprue end. The 2 clamps firmly grip each half of the mold, leaving both hands free to finish the cutting. As the cutting progresses, turn the knobs to spread the mold—you'll have no problem seeing or reaching where you want to cut.

Description	Item#	Each
Mold Vise	**260-2545**	**$73.25**

F

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A

A. Mini Vulcanizer

A forged yoke with acme threads allows a high degree of pressure to be applied to the upper platen. Stainless steel guide rods assure equal pressure on the platens and therefore on the mold frame being vulcanized. Power and heat cycling lights indicate status of operation. Accurate thermostat control heats precisely and platens distribute heat evenly. Platens are unique on this machine because the heating elements are die cast directly into the platen assuring direct transfer of heat. Accepts mold frames up to 7" x 6". Made in Taiwan.

Specifications:

Electrical	120V, 3.4A, 500W, 60Hz
Dimensions	11"W x 7"D x 15⅜"H
Platens	6½" x 5½"
Max. Temp.	572°F (300°C)
Max. Opening	3⅜"
Ship. Wt.	35 lbs.

Model	Item#	Each
110V	**265-2168**	**$490.00**

B

B. Junior Vulcanizer

Heavy-duty cast-iron and aluminum construction. Stainless steel heating platens. Large handle and sturdy 1" diameter pressure screw. Two large diameter guide rods keep platens in alignment. Thermostat with dial for accurate temperature control up to 500°F/260°C. Equipped with power and thermostat pilot lights and on/off switch. Predrilled holes in base for easy mounting. Made in USA.

Specifications:

Electrical	110V, 6A, 660W, 50/60Hz 220V, 3A, 660W, 50/60Hz
Dimensions	13"W x 7"D x 18"H
Platens	8" x 5"
Max. Temp.	500°F (260°C)
Max. Opening	3"
Ship. Wt.	37 lbs.

Model	Item#	Each
110V	**265-2225**	**$645.00**
220V	**265-2227**	**788.00**

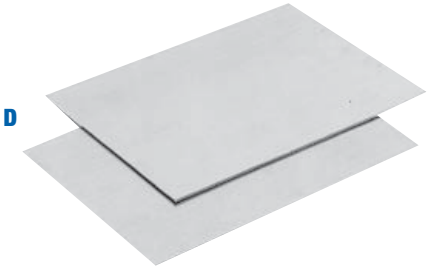
C

C. Polder Timer/Thermometer – For investing and vulcanizing

This handy countdown timer also measures temperature with a plug-in thermometer on a 48" long wire and independent alarms that can be used separately or together. Perfect for monitoring vulcanizer temperature, timing molds, investing and plating baths.

Shows countdown in hours, minutes and seconds. Reverts to last setting when shut off—great for investing multiple flasks. Displays set temperature, alarm sounds when reached, and actual temperature. Temperature range: 32-392°F (0-200°C).

Description	Item#	Each
Polder Timer/Thermometer	**265-1915**	**$27.00**



D

D. Vulcanizer Mold Plates

Thin aluminum plates for covering aluminum mold frames and rubber when vulcanizing. Keeps platens clean and prevents rubber from sticking to the platens.

Size	Item#	Set of 2
3⅞" x 5⅜"	**260-1850**	**$9.50**
5" x 7⅛"	**260-1900**	**16.75**

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A. Dual-Control Deluxe Vulcanizer

No more over- or under-cooked molds! Two independent thermostats control each platen separately, so you get the exact temperature you need for the top and bottom of your mold. Ideal for the new 0% shrinkage rubbers (such as Castaldo No-Shrink Pink, p. 201) that demand precise temperature control.

Heavy-duty cast-iron and aluminum construction with 1" diameter pressure screw and heavy guide posts to ensure uniform pressure on mold and perfect alignment of stainless steel platens. On/off toggle switch with pilot light and 2 separate thermostat pilot lights. Accepts both single and double mold frames. Made in USA.

Specifications:

Electrical	110V, 6A, 660W, 50/60Hz 220V, 3A, 660W, 50/60Hz
Dimensions	15½"W x 9½"D x 20½"H
Platens	8¼" x 6"
Max. Temp.	500°F (260°C)
Max. Opening	4¾"
Ship. Wt.	58 lbs.

Model	Item#	Each
110V	**265-1950**	**$925.00**
220V	**265-1955**	**925.00**

A

B. Unipress Vulcanizer

Digital Temperature Regulation for Consistent Molds and Waxes.

This versatile unit features electronic heating controls and timer for maximum accuracy and proper operation. Heating control has a digital readout accurate to ±1°C. Electronic timer has an automatic shutoff with alarm.

Compressed air opens and closes upper and lower platens, both of which are heated. Uniform pressure and accurate temperature assure minimal shrinkage. Maximum air pressure: 8 bar (115 PSI). Heavy-duty construction with high-tech performance. CE certified. Made in Germany.

Features:

- Digital heat control and LED display for accurate temperature maintenance. Heat is evenly distributed over both platens so there are no hot spots.
- Constant pressure (87 PSI, or 6 bar, is recommended) evenly vulcanizes mold with minimal shrinkage. Wax pattern weights and dimensions are consistent from mold to mold. Your product is uniform and your pricing is more accurate.

Specifications:

Electrical	220V, 1 Ph, 50/60Hz
Air Requirement	60-115 PSI
Dimensions	12½"L x 13¾"W x 21¼"H (320mm x 350mm x 540mm)
Platens	7¾" (200mm) x 6¾" (175mm)
Max. Temp.	500°F (260°C)
Timer	Digital timer with alarm automatically shuts off heat at end of cycle. Mold can be removed or allowed to cool under pressure.
Max. Opening	5" (125mm)
Min. Opening	1¾" (45mm)*
Ship. Wt.	57 lbs.

Model	Item#	Each
Unipress Vulcanizer	**265-2178**	**$4,695.00**

**Use with Mold Frames for Ready Made Molds (see p. 202) for best results.*

B

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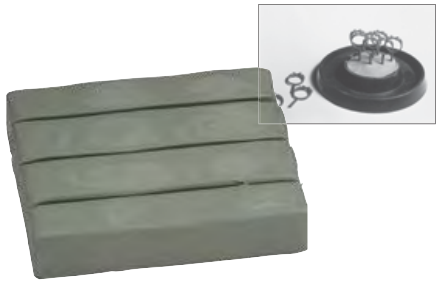

See page 189 for Wax Wire.

A-E Sprue Bases

For setting up wax patterns before investing. Made of durable vulcanized rubber. Flexible enough to fit flasks that have been distorted from use. Creates a leakproof seal. In 3 styles for a wide range of sprue shapes.

		EACH Prices		
A. Button – For flask diameter	Item#	1-2	3-9	10+
2½"	**260-0600**	**$2.80**	**$2.66**	**$2.38**
3"	**260-0750**	**3.30**	**3.14**	**2.81**
3½"	**260-0900**	**3.70**	**3.52**	**3.15**
4"	**260-1050**	**4.20**	**3.99**	**3.57**
B. Donut – For flask diameter				
3½"	**260-0950**	**4.30**	**4.09**	**3.66**
C. Tree*, Round Center – For flask diameter				
2"	**260-0560**	**3.20**	**3.04**	**2.72**
2½"	**260-0700**	**4.55**	**4.32**	**3.87**
3"	**260-0850**	**4.75**	**4.51**	**4.04**
3⅜"	**260-1010**	**6.15**	**5.84**	**5.23**
3½"	**260-1000**	**5.60**	**5.32**	**4.76**
4"	**260-1150**	**5.30**	**5.04**	**4.51**
5"	**260-1170**	**10.65**	**10.12**	**9.05**
4" (with ½" sprue hole)	**260-1190**	**5.20**	**4.94**	**4.42**
D. Tree*, Cone Center – For Vacuum Casting Machines				
2"	**260-0561**	**3.20**	**3.04**	**2.72**
4"	**260-1155**	**3.15**	**2.99**	**2.68**
E. Universal				
2½" or 3½"	**260-1175**	**3.20**	**3.04**	**2.72**

All sprue holes ⅜" diameter except as indicated.

F. Mold Clay

Used for modeling or filling the centers of sprue bases to hold wax patterns. Sold in 1 lb. bars.

Description	Item#	Each
Mold Clay	**260-3401**	**$9.50**

G-I Sprue Wax – 24" Length

Flexible and long, this sprue wax is custom-formulated to our strictest specifications for proper burnout, melts at 120°F. The injectable feature of our sprue wax is a time-saver. If you often use a complicated tree design, make a mold of it and inject multiples using our sprue wax. Your exact tree system is quickly created every time. Sold in 1 lb. boxes.

				EACH Prices	
	Diameter	Approx. Qty. per Box	Item#	1-49	50+
G.	¼"	15	**261-6260**	**$10.65**	**$9.59**
H.	⅜"	10	**261-6265**	**10.05**	**9.05**
I.	½"	8	**261-6270**	**8.95**	**8.06**

J, K Sprue Wax – 6" Length

Available in 2 grades, flexible is the same as our longer sprue wax (above), melts at 120°F. Hard is very rigid and stable, providing extra support for large trees or patterns, melts at 168°F. Packaged in 1 lb. boxes.

				Approx. Qty.		EACH Prices	
	Description	Diameter	Color	per Box	Item#	1-49	50+
J.	Flexible	⅜"	Red	45	**261-6272**	**$14.55**	**$13.10**
K.	Hard	⅜"	Aqua	45	**261-6273**	**14.55**	**13.10**

L-N Sprue Wax Wire – 6" Length

These flexible sticks are for spruing and mounting wax patterns. Melts at 155°F.

	B&S Gauge	Approx. Qty. per Box	Item#	Box
L.	6 Flexible	75	**261-6256**	**$20.75**
M.	8 Flexible	135	**261-6258**	**20.75**
N.	10 Flexible	180	**261-6259**	**20.75**

O. Hexagonal Sprue Wax – 6" Length

Six-sided hexagon shape makes for easier spruing and permits more patterns to be sprued than conventional round sprue wax. This is a firm sprue wax with a melting temperature of 154°F. Packaged in 1 lb.

Diameter	Approx. Qty. per Box	Item#	Box
⅜" - Hard	45	**261-5890**	**$9.50**

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A, B Perforated Flasks

Heavy-duty stainless steel for vacuum chamber casting.

A. Flask with flange

Dia.* x H	Item#	EACH Prices 1-2	3+
3⅜" x 4"	**260-0020**	**$42.25**	**$40.14**
3½" x 4"	**260-0019**	**29.00**	**27.55**
4" x 4"	**260-0025**	**30.00**	**28.50**
4" x 5¾"	**260-0032**	**43.75**	**41.56**
4" x 8½"	**260-0035**	**53.90**	**51.21**
5" x 7"	**260-0037**	**53.90**	**51.21**

**Diameter not including flange.*

B. Flask without flange

Dia. x H	Item#	Each
4" x 6"	**260-0012**	**$41.80**
5" x 8"	**260-0014**	**95.00**
6" x 8"	**260-0016**	**59.00**

A B

C. Tivac Paper Flask Liner – Eliminates the need for perforated flasks

Vacuum channels formed by the liners increase the exposed surface area of the investment and create an unobstructed air flow. Provides over 40% more vacuum capacity than wax web, plastic web, or vacuum rods. Burns out cleanly. Completely nonhazardous. Built-in collar replaces flask sleeves to speed up investing. Tivac #4 fits 4" x 6", 4" x 7" and 4" x 8" solid-wall flasks. Tivac #5 fits 5" x 6", 5" x 7" and 5" x 8" solid-wall flasks.

Description	10-pc. Sample Pack Item#	Each	Description	50-pc. Pack Item#	1-4
C. Tivac #4 for 4" dia. flasks	**260-0047**	**$8.25**	Tivac #4 for 4" dia. flasks	**260-0046**	**$33.00**
Tivac #5 for 5" dia. flasks	**260-0049**	**8.95**	Tivac #5 for 5" dia. flasks	**260-0048**	**29.00**

Tivac permits open airflow

C

D. Tape for Perforated Flasks

Wide tape to be applied around perforated flask while investing. Can be burned out.

Width x Length	Item#	EACH Prices 1-9	10+	Width x Length	Item#	1-9	10+
4" x 60 yards	**260-0036**	**$13.95**	**$12.56**	7" x 60 yards	**260-0045**	**$25.95**	**$23.36**
6" x 60 yards	**260-0038**	**24.95**	**22.46**	8" x 60 yards	**260-0039**	**35.00**	**31.50**

D

E. Rubber Sleeves for Perforated Flasks

Reusable, flexible rubber sleeves for covering perforations when investing.

Dia. x H	Item#	Each	Dia. x H	Item#	Each
3⅜" x 4"	**260-0003**	**$12.50**	4" x 8½"	**260-0009**	**$16.25**
4" x 7"	**260-0007**	**15.75**	5" x 8"	**260-0011**	**16.25**

F. Rubber Flask Extenders – For solid-wall flasks.

Slide flexible sleeve over standard flasks to prevent overflow while vacuuming investment.

Dia. x H	Item#	Each	Dia. x H	Item#	Each
2½" x 2½"	**260-0401**	**$4.95**	3½" x 2½"	**260-0501**	**$6.05**
3" x 2½"	**260-0451**	**5.35**	4" x 2½"	**260-0551**	**6.30**

E

F

G. Casting Flasks – Heavy-duty Stainless Steel

Designed to withstand thermal shock of casting, quenching and numerous burnouts.

Dia. x H	Gauge Thickness	Item#	EACH Prices 1-2	3-4	5+
2" x 2½"	14	**260-0040**	**$4.50**	**$4.28**	**$4.28**
2½" x 2½"	12	**260-0050**	**5.20**	**4.94**	**4.68**
2½" x 3"	12	**260-0055**	**6.50**	**6.18**	**5.85**
2½" x 4"	12	**260-0060**	**7.55**	**7.17**	**6.80**
3" x 3"	12	**260-0150**	**8.25**	**7.84**	**7.43**
3" x 4"	12	**260-0170**	**8.80**	**8.36**	**7.92**
3½" x 3"	12	**260-0200**	**9.25**	**8.79**	**8.33**
3½" x 4"	12	**260-0210**	**10.50**	**9.98**	**9.45**
3½" x 5"	12	**260-0250**	**11.50**	**10.93**	**10.35**
4" x 4"	12	**260-0310**	**11.25**	**10.69**	**10.13**
4" x 5"	12	**260-0320**	**13.50**	**12.83**	**12.15**
4" x 6"	12	**260-0350**	**14.95**	**14.20**	**13.46**

G

All prices subject to change without notice.

R&R® Investment

Select Ultra-Vest® when casting non-ferrous metals; Ultra-MAXX® when using white gold and palladium, as well as yellow gold. Plasticast is the ideal investment for plastic pattern materials. All three are available in traditional formulas or with new BANDUST™ Technology for measurable reduction in total respirable dust — up to 99% compared to other brands of jewelry investment. Casting quality is maintained with excellent final casting results and no process changes are required during the investing stage. Full pallet pricing also available.

A

B

Bandust reduces airborne silica dust!

C

D

E

F

G

A, B R&R® Ultra-Vest® and Ultra-Vest with BANDUST™

Recognized worldwide as the premium investment for gold, silver, brass, and other non-ferrous jewelry castings. Provides easy quench and easy clean-up reducing your risk of losing valuable gold. Ultra-Vest investment produces smoother surfaces than other investments, resulting in less finishing.

Worldwide, Ultra-Vest is widely accepted as being the most process forgiving product available for your casting needs saving you time and money associated with application-related defects. Whether you are casting a simple piece or an intricate shape, Ultra-Vest investment is the investment of choice.

	Description	Size	FOB Shipping Point	Item#	EACH Prices 1-2	3+
A.	Ultra-Vest	50 lb. carton	CT	**260-4012**	**$44.95**	**$42.70**
	Ultra-Vest	50 lb. carton	OH	**260-4015**	**44.95**	**42.70**
	Ultra-Vest	50 lb. carton	CA	**260-4017**	**48.45**	**46.03**
B.	Ultra-Vest Bandust	50 lb. carton	CT	**260-4180**	**59.50**	**56.53**
	Ultra-Vest Bandust	50 lb. carton	OH	**260-4181**	**59.50**	**56.53**

C, D R&R® Ultra-Vest MAXX® and Ultra-Vest MAXX with BANDUST™

An excellent choice for casting white gold and plastic or resin pattern materials. maximum thermal stability for high metal melt temperatures, flask temperatures, burnout temperatures, and casting temperatures. Just want to use one investment? Ultra-Vest MAXX can be used with yellow gold too. Eliminates orange peel defects associated with metal/mold reactions. Eliminates flashing & spalling associated with investment breakdown during burnout of plastic & resin pattern materials.

	Description	Size	FOB Shipping Point	Item#	EACH Prices 1-2	3+
C.	Ultra-Vest MAXX	50 lb. carton	CT	**260-4042**	**$53.80**	**$51.11**
	Ultra-Vest MAXX	50 lb. carton	OH	**260-4043**	**53.80**	**51.11**
	Ultra-Vest MAXX	50 lb. carton	CA	**260-4044**	**56.55**	**53.72**
D.	Ultra-Vest MAXX Bandust	50 lb. carton	CT	**260-4183**	**60.52**	**57.49**
	Ultra-Vest MAXX Bandust	50 lb. carton	OH	**260-4184**	**60.52**	**57.49**

E, F R&R® Plasticast and Plasticast with BANDUST™

Plasticast was developed for the investing and burnout of commonly used plastic or wax/plastic pattern materials. Ideal for resin models created in rapid prototype processes. The high expansion of all these pattern materials requires an equally high expanding, extra high strength investment. Plasticast provides a smoother, cleaner casting surface not obtainable with standard brands of investment. Plasticast is designed for easy removal in water. Plasticast also provides a superior casting surface when standard injection waxes are used.

	Description	Size	FOB Shipping Point	Item#	EACH Prices 1-2	3+
E.	Plasticast	50 lb. carton	CT	**260-4097**	**$49.50**	**$47.03**
	Plasticast	50 lb. carton	OH	**260-4098**	**49.50**	**47.03**
	Plasticast	50 lb. carton	CA	**260-4099**	**49.25**	**46.79**
F.	Plasticast Bandust	50 lb. carton	CT	**260-4186**	**59.55**	**56.57**
	Plasticast Bandust	50 lb. carton	OH	**260-4187**	**59.55**	**56.57**

G. SUPRA® Platinum Investment

SUPRA Platinum Investment is the choice of professional platinum casters. Our 2-part investment is specially formulated to withstand the high temperatures of platinum casting. SUPRA Platinum Investment provides ultra-smooth castings—that saves you time and money on finishing. Each box of SUPRA Platinum Investment contains a 55 lb. bag of investment powder, a 1-liter bottle of acid-based binder and complete instructions.

Description		Item#	BOX Prices 1-9	10+
SUPRA Platinum Investment	$	**260-5001**	**$275.00**	**$165.00**

$ *UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.*

A. ALL CAST® Investment – Same day casting

A micro-fine grain, "carbon-free" investment for producing ultra-smooth castings. Especially good for RP models. All Cast is a super-fine phosphate-bound, cristobalite investment ideal for use with precious, semi-precious and non-precious alloys (all gold karats in white and yellow, silver, platinum, cobalt, steel, palladium and palladium alloys). Meticulously formulated compound provides the caster with a wide range of burnout temperatures. Burnout Range: 1300°–1800°F (704°–982°C). Sets in just 20 minutes! Burns out in 2 to 4 hours, depending on flask size. Smooth, accurate, strong, and reliable. Available in kits of 25 lb. and 50 lb. boxes that include liquid binder. Not for use with titanium or titanium alloys. Made in USA.

	Description	Item#	Each
A.	ALL CAST 25 lb. Kit	**265-4998**	**$115.00**
	ALL CAST 50 lb. Kit	**265-4999**	**225.00**

A

B. Kerr® Satin Cast 20® – Gold and Silver

Recognized throughout the world as a superior investment capable of meeting demands for high quality. Produces excellent satin-smooth casting surfaces for gold, silver, brass, bronze and other metals that melt under 2,000°F (1,093°C).

Description	Size	FOB Shipping Point	Item#	Each
Satin Cast 20	2kg (4.4 lb.) canister	CT	**260-4064**	**$16.99**
	2kg (4.4 lb.) canisters, pkg. of 6	CT	**260-4063**	**93.69**
	15kg (33 lb.) carton	CT	**260-4966**	**33.50**

	Description	Size	FOB Shipping Point	Item#	EACH Prices 1-11	12-23
B.	Satin Cast 20	45kg (100 lb.) drum	CT	**260-4060**	**$71.50**	**$64.35**

B

C. Kerr® Satin Cast Diamante® – Stone-in-place
Yields castings with exceptionally smooth surface quality!

Formulated to create gas-permeable molds that ensure complete fills at the lower temperatures required for stone-in-place casting jobs. Yields castings with exceptionally smooth surface quality, reducing finishing time. Recommended for use with hard stones such as diamonds, sapphires, rubies and synthetics.

Description	Size	FOB Shipping Point	Item#	Each
Diamante	45kg (100 lb.) drum	CT	**260-4068**	**$75.50**

C

D. Kerr® Supervest 20® – School rings, small sculptures

Stronger at high temperatures, it sustains thermal shocks. Primarily used by school ring manufacturers; also good for small sculpting. For metals that melt under 2,000°F.

Description	Size	FOB Shipping Point	Item#	EACH Prices 1-11	12-23
Supervest 20	45kg (100 lb.) drum	CT	**260-4980**	**$110.95**	**$99.86**

D

E. Kerr® Platinite – Platinum and Stainless Steel

Platinite is the easiest, most convenient investment for casting high temperature metals like platinum and stainless steel because it uses water for mixing instead of acid binders, so devesting is easy too! Platinite delivers castings with smooth surfaces and no cracks. Accurately replicates fine details.

Description	Size	FOB Shipping Point	Item#	EACH Prices 1-23	24-71
Platinite	36kg (79 lb.) drum	CT	**260-4069**	**$104.50**	**$94.05**

E

F, G ALL CAST® Paint-on Pre-Coat Green & White

Gesswein's All Cast Pre-Coat White and Pre-Coat Green are a fine grained liquid investment for the sole purpose of enhancing the sharpness and detail of your castings. Both come in convenient 8 oz. jars with instructions right on the jar label. Use White for Gesswein's All Cast Investment (see above) and Green for all other phosphate based investments.

	Description	Size	Item#	EACH Prices 1-3	4+
F.	All Cast Pre-Coat White	8 oz.	**265-4990**	**$24.50**	**$22.05**
G.	All Cast Pre-Coat Green	8 oz.	**265-4992**	**24.95**	**22.46**

F

G

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A

Waterjet Vacuum Pump

A. Ti-Research Mix-It Investment Mixers

For mixing both standard investments and fast-setting investments, nothing could be easier, cleaner and more efficient than a Mix-It Investment Mixer. Just pour required amount of water or binder into the acrylic bowl, add the investment, put on the lid, turn the handle, and the mixing blade smoothly and thoroughly mixes the contents. Feature thick-wall construction and solid stainless steel handle and mixing blade. Attach a vacuum pump to the fitting on the lid to remove bubbles while you mix. Mix-It Mixers work with any standard vacuum pump or the Waterjet Vacuum Pump, simply connect to a faucet for Venturi effect: water running through the constricted tube produces a vacuum in the Mix-It bowl and pulls air bubbles out of your investment. Made in Germany.

Description	Item#	Each
250ml (fills a 3" x 3" flask)	**265-5030**	**$265.00**
500ml (fills a 4" x 4" flask)	**265-5031**	**269.00**
1,000ml (fills a 5" x 6" flask)	**265-5032**	**284.00**
Waterjet Vacuum Pump	**265-5033**	**112.00**

B

C

B, C Timers – Ideal for investing and vulcanizing

Select between our simple 60-minute windup with long ring or our programmable 10-hour timer. Simply key in hours and minutes, then hit start. Loud beeping alarm sounds after time expires. Features repeat timing: within two minutes after alarm, press start to repeat the previous countdown. Built-in magnet allows easy mounting on metal surfaces. Requires one AAA alkaline battery.

	Description	Item#	Each
B.	60-MinuteTimer	**265-1910**	**$14.25**
C.	10-Hour Timer	**265-1912**	**16.50**

E

F

D

G

D-G Rubber Mixing Bowls & Spatula

Bowls are made of flexible rubber heavy enough to hold mixtures yet flexible enough for easy pouring. Spatula is made of thick, flexible stainless steel with hardwood walnut handle. Measures 6" long.

	Description	Dia. x H	Capacity	Item#	Each
D.	Small Bowl	4" x 3"	¾ pt.	**260-3250**	**$3.80**
E.	Medium Bowl	6" x 6"	1½ qts.	**260-3300**	**8.70**
F.	Large Bowl	9" x 7"	1 gal.	**260-3350**	**17.40**
G.	Mixing Spatula			**260-1710**	**17.95**

H

H. Investment Vibrator

This well-built vibrator eliminates air bubbles and voids around wax models. Also adds density to the investment. Has three-speed control and on/off switch and 4" diameter table. Electrical: 110V, 3A, 40W, 60Hz. Measures 4"L x 4"W x 3¾"H.

Description	Item#	Each
Investment Vibrator	**265-1245**	**$98.00**

I

I. Investment Scale

This economical yet accurate scale weighs up to 10 lbs. in 2 oz. increments. Features 4" dial with large, easy-to-read numbers that indicate weights and water/investment ratios. Includes scoop.

Description	Item#	Each
Investment Scale	**200-2020**	**$25.20**

M

L

J

K

J-M Graduated Cylinder, Investment Scoop and Measuring Beakers

Graduated cylinder is used to calculate the amount of metal needed for casting by water displacement method. Made of polypropylene. Capacity: 250ml with 2ml graduations. Investment scoop has high sides to prevent spilling and waste. Holds about 3 lbs. standard investment. Measures 8½"L x 4¾"W x 3"H. Made of plastic. Measuring beakers have handles for easy pouring. Made of polypropylene. Available in two sizes: 1,000ml with 1ml graduations and 5,000ml with 100ml graduations.

	Description	Capacity	Item#	Each
J.	Graduated Cylinder	250ml (250cc)	**265-1905**	**$19.65**
K.	Investment Scoop	Roughly 3 lbs.	**260-1750**	**8.10**
L.	Small Measuring Beaker	1,000ml (1,000cc)	**210-2425**	**14.80**
M.	Large Measuring Beaker	5,000ml (5,000cc)	**210-2426**	**58.95**

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A. Auto-Vac Investing Machine

Take the worry out of investing with Auto-Vac. This timesaving machine mixes investment and fills flasks under full vacuum, eliminating the air bubbles that hurt casting quality and kill productivity down the line. Produces smooth, crisply detailed molds, which result in better castings. Also helps keep dust out of the air for a healthier workspace. Easy to use and clean: place flasks in vacuum chamber, swivel mixing unit over it, pour water and investment into mixing unit, seal lid and run machine; when done, swivel mixing unit over wash basin and clean out with water gun. Includes two all-metal stands for flexibility. Requires vacuum pump (see p. 214).

A

Features:

- Mixes and fills in a controlled environment to help reduce casting defects.
- Reduces exposure to harmful investment dust.
- Easy to use and clean.
- Includes 2 stands so you can choose a 47¼" or 55" working height.

Specifications:

Investment Capacity: up to 40 lbs., Max. Flask Height: 11"

Flask Diameter	3"	3½"	3⅜"	4"	4½"	5"	6"
No. of Perforated Flasks with flange	6	5	4	4	3	2	1
No. of Flangeless or Solid wall flasks	8	7	7	6	5	4	1

Vacuum Requirement: 10 CFM, 29.5" Hg (300 liter/minute)

Electrical: 220V, 1 Ph, 50/60Hz

Dimensions: 27"W x 26"D x 47¼"H or 55"H (height depends on stand used)

Net/Ship. Wt.: 269/364 lbs.

Description	Item#	Each
Auto-Vac Investing Machine - 220V	**265-2181**	**$6,495.00**

B. Investment Vac Model HD – For vacuuming investment

Designed for vacuuming investment in a production environment. Large capacity unit for investing multiple flasks. Reliable, heavy-duty vacuum pump with in-line filter traps to prevent moisture from contaminating vacuum oil. Easy-to-read vacuum gauges. Incorporates a 150 liters/minute, single-stage pump (1/2 HP). Complete with a 12" dia. x 12"H bell jar, 14½" x 14½" rubber investing pad, 1 quart vacuum pump oil and instructions. Bell Jar (#260-4155) is included.

B

Specifications:

Electrical: 120V, 5A, 60Hz, Dimensions: 23"W x 14"D x 35"H, Ship. Wt.: 261 lbs.

	Description	Item#	Each
B.	Investment Vac Model HD	**265-1550**	**$2,195.00**

Replacements	Size	Item#	Each
Bell Jar	12" dia. x 12"H	260-4155	$104.00
Rubber Pad	14½" dia. x 14½"H	265-1551	35.00
Vacuum Pump Oil	1 qt.	265-1700	12.95

C. Vac-A-Mix Investment Mixer

With a built-in vacuum pump, Vac-A-Mix vacuums investment while it's mixing to eliminate all bubbles from your investment. A built-in timer and easy-to-use buttons control mixing time and vacuum. Investment is mixed in closed bowls to reduce airborne investment powder. After gently pouring the investment into your flask, place the flask on the built-in vibrating base for a minute to make sure investment is uniformly dispersed and bubble-free.

- Built-in timer
- Built-in vacuum pump
- Adjustable built-in vibrator
- Includes 5 mixing bowls (200, 300, 500, 800 and 1200ml) and mixing paddles
- High vacuum power for bubble-free results

C

Specifications:

Electrical: 110V, 1.3 Amps, 150 Watts, 60Hz

Vacuum Pump Capacity: <23.6~ 26.7" Hg (<800 ~ 900 mbar)

Dimensions: 12.9" W x 11.8" D x 20.8" H (33 x 30 x 53 cm)

Shipping Weight: 65.8 lbs. (29.8kg)

	Description	Item#	Each
C.	Vac-A-Mix Investment Mixer	**265-1820**	**$1,275.00**

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A

A, B VacuVest – Investment mixing and pouring all under vacuum!

Improve the quality of your casting and save time! VacuVest eliminates investing problems and easily increases your productivity. To operate, place flasks in lower chamber. Add premeasured water and investment into top. Operator controls exact mixing time, then fills each flask—all under full vacuum. Unit is cleaned using built-in automatic water wash and hand water gun. Waste empties into a tub for easy disposal. Backed by a one-year warranty against defects (except pouring taps, which may wear after extended use). Vacuum pump not included. Made in England.

Features:

- Improves quality for fewer rejects and speeds up production.
- Reduces airborne investment powder for a healthier environment.
- Controls mixing, vacuum and pouring conditions.
- Rotary table holds up to 16 flasks.

Other sizes also available - please call our tech department for details

Specifications:	VacuVest #10	VacuVest #20
Investment Capacity:	Up to 22 lbs. (10kg)	Up to 55 lbs. (25kg)
Max. Flask Height:	9" (228mm)	12" (304mm)
Perforated Flask Capacity:	4 (4" dia.)	8 (4" dia.)
	1 (6" dia.)	4 (6" dia.)
Vac. Requirement:	10 CFM, 28.5" Hg	40 CFM, 28.5" Hg
Dimensions:	24"W x 28"D x 54"H	42"W x 28"D x 62"H
Net/Ship. Wt.:	465/562 lbs.	904/1,070 lbs.

	Description	Electrical	Item#	Each
A.	VacuVest #10	220V, 1 Ph, 60Hz	**265-2385**	**Call for Pricing**
		220V, 1 Ph, 50Hz*	**265-2384**	**Call for Pricing**
B.	VacuVest #20	220V, 1 Ph, 60Hz	**265-2390**	**Call for Pricing**
		220V, 3 Ph, 60Hz	**265-2409**	**Call for Pricing**
		220V, 1 Ph, 50Hz*	**265-2389**	**Call for Pricing**

For export only.

B

C. Busch™ Rotary Vane Vacuum Pumps

Oil-sealed, air-cooled direct-drive pumps excellent for applications in which the vacuum source must be reliable and unobtrusive. Operate quietly with low vibration. Each includes inlet filter assembly. 15 CFM is ideal for use with VacuVest #10 and Auto-Vac (p. 213), 28 CFM is ideal for use with VacuVest #20. Made in USA.

Specifications:	15 CFM	28 CFM
Motor:	1¼ HP	2 HP
Dimensions:	17"L x 10½"W x 9"H	28"L x 15"W x 10½"H
Net/Ship. Wt.:	42/60 lbs.	129/165 lbs.

	Description	Electrical	Item#	Each
C.	Vacuum Pump #15 - 1 1/4 HP	220V, 1 Ph, 60Hz	**265-2386**	**$2,499.00**
	Vacuum Pump #28 - 2 HP	115/230V, 1 Ph, 60Hz	**265-2381**	**3,795.00**
	Vacuum Pump #28 - 2 HP	230V, 3 Ph, 50/60Hz	**265-2387**	**3,495.95**
	Oil for #15, 1 qt.		265-1708	32.99
	Oil for #28, 1 qt.		265-1707	8.75

For export only.

C

D

D. Airtech™ Rotary Vane Vacuum Pumps

Oil-flooded, air-cooled direct-drive vacuum pumps designed for reliability and longevity. Feature durable composite vanes, oil level sight glass, wire mesh inlet filter, exhaust filters and vibration isolators for quiet operation. Choose from 15 CFM and 31 CFM models.

Specifications:	15 CFM	31 CFM
Motor	1 HP	2 HP
Noise Level	62 dBA	67 dBA
Electrical	115/230V, 1 Ph, 60Hz	208–230/460V, 3 Ph, 50/60Hz
Dimensions	16⅛"L x 10¾"W x 8⅝"H	27"L x 11½W" x 11"H
Net/Ship. Wt.	42/70	116/140

	Description	Electrical	Item#	Each
D.	15 CFM Vacuum Pump - 1 HP	115/230V, 1 Ph, 60Hz	**265-1690**	**$2,325.00**
	31 CFM Vacuum Pump - 2 HP	208-230/406V, 3 Ph, 60Hz	**265-1691**	**3,145.95**

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A. Paragon SC3 Fiber Oven with Controller

The digital SC3 oven from Paragon is used for lost-wax casting and also fires precious metal clay, enamels, and glass in minutes up to 2000°F. The SC3 is popular with seminar teachers because it fires so fast and plugs into a 120 volt outlet (240V also available).

The SC3 fires automatically at the rate and temperature you enter on the built-in controller. A large, brightly lit display prompts for firing rate, temperature and hold time. Use the hold feature to automatically soak any type of precious metal clay to its recommended time or to hold flasks at desired temperature for casting.

The ¼" thick ceramic fiber firing chamber is wrapped in a steel inner case. The outer steel case remains cool due to the layer of air between it and the inner case. In addition, the case is slotted for air circulation. Electrical components, located in the base, stay cool even at extended hold times. The fast firing element is embedded in the firing chamber shell. The SC3 heats from the two sides and back. It includes a top vent for lost wax casting. Door opens 180 degrees for easy front loading. CE approved.

Specifications:

Electrical: 120V, 15 Amps, 1 Phase, 60Hz, 1800 Watts
240V, 8 Amps, 1 Phase, 60Hz, 2000 Watts

Overall Dimensions: 13.3"W x 14"D x 17"H

Chamber Dimensions: 7.75"W x 8"D x 7.75"H

Max. Temperature: 2000°F/1093°C

Control Type: Sentry Digital 3-Key Glass Control

Shipping Weight: 40 lbs.

A

Description	FOB Shipping Point	Item#	Each
Paragon SC3 Fiber Oven - 120V	CT	**265-1421**	**$925.00**
Paragon SC3 Fiber Oven - 120V	TX	**265-1422**	**865.00**
Paragon SC3 Fiber Oven - 240V	CT	**265-1425**	**985.00**

B. Analog Pyrometer and Type K Thermocouple

A high-quality analog pyrometer for exceptional accuracy. Features large needle indicator for easy reading. Measures temperatures from 100°F to 2,400°F. Accurate to within ±2% of total reading. Includes Type K chromel-alumel thermocouple, wall hanging bracket and drilled plug for quick mounting in peephole.

Description	Item#	Each
Analog Pyrometer	**265-1920**	**$172.50**

B

C. Handheld Digital Pyrometer

Enjoy digital accuracy on a modest budget with this reliable handheld unit. Features large LCD for easy reading even in bright light, low battery indicator and on/off switch to save battery life. Measures temperatures up to 1,999°F. Accurate to within ±2% of total reading. Includes easily replaceable Type K thermocouple with 5' wire and wall hanging bracket. Requires 9V battery. Measures 2¾"W x 1"D x 4¼"H. Weighs 5 oz.

Description	Item#	Each
Digital Pyrometer	**265-1914**	**$91.00**

C

D. Burnout Oven Wax Trays

Two-part steel trays with upper grid for holding flasks during burnout and lower tray for collecting melted wax. After wax has melted out of flasks, remove stainless steel tray to prevent release of wax fumes. Flasks remain undisturbed, heating elements last longer and the furnace floor stays clean.

	Description	Fits	Item#	Each
D.	12⅝" sq. Tray	#914 Furnace	**265-1434**	**$146.25**
	16½" sq. Tray	#918 Furnace	**265-1438**	**177.75**

D

E. Brick Oven Cement

A permanent high-temperature refractory cement for all types of firebrick kilns. Simply mix with tap water and apply.

Description	Item#	Each
Brick Oven Cement, 1 lb. bag	**265-1437**	**$6.95**

E

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A

Rear view of exhaust/blower system

A. Ney® 3-550A Venturi Air Furnace – Excellent for use with platinum

The Ney 3-550A Venturi Air Furnace is engineered for the cleanest burnout possible in an electric oven. Gas porosity, also known as pinhole or micro porosity, can ruin platinum castings or require expensive rework such as laser welding later. The Ney 3-550A Venturi Air Furnace tackles gas porosity at its source.

The self-contained Venturi exhaust/blower system continuously introduces fresh air for more complete combustion of your waxes. It substantially reduces carbon residue and other by-products of incomplete combustion, virtually eliminating gas porosity in castings. Great for gold and silver too.

Features:

- Air intensity is user-controlled—increase airflow when you need to hold more flasks.
- Air is preheated before entering furnace to keep temperature constant.
- Flasks are uniformly heated—no hot or cold spots.
- Fully programmable digital temperature controller with LCD readout of temperature and countdown time, delay start and membrane keypad.
- Durable hybrid muffle material for more efficient heating.
- Slide-out heating elements for easy replacement.
- Space-saving vertical rise door with smooth roll-back action for maximum access.

Specifications:

Electrical: 220–240V, 1 Ph, 2800W, 50/60Hz

Dimensions:
Outside: 15.8"W x 17.0"D x 16.0"H (25.0"H with door open)
Chamber: 9.0"W x 9.0"D x 7.0"H

Max. Temp.: 2,012°F (1,100°C)

Net/Ship.Wt.: 45/60 lbs.

Description	Item#	Each
Ney 3-550A Venturi Air Furnace	**265-1361**	**$3,150.00**

B. Ney® Vulcan Furnaces

Burnout furnaces designed by Ney to make your burnout more precise and your casting process more convenient. Vulcan's high-performance, hybrid muffle is more durable than fiber and allows faster heating and cooling than firebrick. Two slide-out side element plates make element replacement easy. Vulcan's door opens vertically with a smooth roll-back action to give maximum access to the chamber while using minimum vertical space. Available with your choice of manual or programmable temperature controls.

A-550 Manual Temperature Control:

Temperature is selected using a front panel control knob. Degrees are marked so you can dial the exact temperature you want, up to 2,012°F.

3-550 Programmable Temperature Control:

Features 9 three-stage programs and 1 single-temperature hold program. You can link programs together for a maximum burnout of 6 temperatures, 6 hold times and 6 rate settings. Temperature, countdown time and program number are digitally displayed at all times. Also features delay start. Membrane keypad and LED indicators make this controller easy to program and operate.

B

Specifications:	A-550	3-550
Temp. Control:	Manual	Programmable
Electrical:	100–125V, 50/60Hz or 200–250V, 50/60Hz	100–125V, 50/60Hz or 200–250V, 50/60Hz
Dimensions:		
Outside:	16"W x 17"D x 16"H (25"H with door open)	16"W x 17"D x 16"H (25"H with door open)
Chamber:	9"W x 9"D x 7"H	9"W x 9"D x 7"H
Max. Temp.:	2,012°F	2,012°F
Firing Time:	15 min. to 1000°F	15 min. to 1000°F
Net/Ship.Wt.:	45/50 lbs.	45/50 lbs.

	Description	Item#	Each
	A-550 Furnace, 100–125V	**265-1350**	**$1,550.00**
	A-550 Furnace, 200–250V	**265-1355**	**1,650.00**
B.	3-550 Furnace, 100–125V	**265-1362**	**2,500.00**
	3-550 Furnace, 200–250V	**265-1364**	**2,550.00**
	Replacement Heating Element	265-1351	184.00

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A. Ney® Fiber Furnace

A compact, electric burnout furnace which uses 25% less energy than a standard firebrick design. The secret is a lightweight ceramic insulating fiber muffle throughout the furnace chamber. Heating elements are embedded into fiber muffle for quick heating and even heat distribution throughout chamber. One-piece-construction chamber is replaceable, lightweight, heats faster and uses less energy. Efficient design achieves 4-wall heating for even temperature distribution. Sturdy 20-gauge metal cabinet is coated inside and out with temperature-resistant enamel. Pilot light and temperature control knob included. Tapered chamber fits flasks up to 6"H in the front and 5"H in the back. Includes 8" x 8" ceramic burnout tray.

A

Specifications:

Electrical: 115V, 12A, 1320W, 50/60Hz or 230V, 6A, 1320W, 50/60Hz

Dimensions:
- Outside: 15"W x 14½"D x 16½"H
- Chamber: 9"W x 9"D x 6½"H

Max. Temp.: 2,000°F

Firing Time: 15 minutes to 1,000°F

Ship. Wt.: 36 lbs.

	Description	Item#	Each
A.	Ney Fiber Furnace, 115V	**265-1525**	**$1,225.00**
	Ney Fiber Furnace, 230V	**265-1526**	**1,300.00**
	Optional 4" x 4" x 3/8" Ceramic Burnout Tray*	**265-1527**	42.00
	Replacement 8" x 8" x 3/16" Ceramic Burnout Tray	265-1528	73.50
	Replacement Heating Element, 115V	265-1530	410.00
	Replacement Heating Element, 230V	265-1531	420.00

****Four required, sold individually.***

B. Programmable Burnout Furnaces, Models 914 and 918

These furnaces feature a programmable controller with three built-in, easy-to-use programs plus the ability to be custom-programmed for your own burnout schedule up to 99 hours, with delay start capability. Controller allows you to preset up to six segments or "ramps." Each ramp consists of (1) rate of heating/cooling, (2) temperature setting in °F or °C, and (3) hold time for each temperature. The program you set stays in permanent memory until you reset it. Furnaces are enclosed in tough stainless steel cabinets with firebrick chambers. Easily replaceable heating elements are secured in grooves inside the chambers.

B

Specifications:	Model #914	Model #918
Electrical:	220V, 17A, 50/60Hz	220V, 25A, 50/60Hz Dimensions:
Outside:	19"W x 22"D x 26½"H	24"W x 27"D x 31"H
Chamber:	14" x 14" x 14"	18" x 18" x 18"
Ship. Wt.:	209 lbs.	305 lbs.

	Description	Item#	Each
	#914 Programmable Burnout Furnace	**265-1431**	**$2,585.00**
B.	#918 Programmable Burnout Furnace	**265-1436**	**2,999.00**
	#914 Heating Elements, set of 3	265-1428	286.50
	#918 Heating Elements, set of 4	265-1429	309.95

C. Heavy-Duty Electric Burnout Furnace

A compact electric burnout furnace built for heavy-duty use. Features inner chamber lined with 2½" thick firebrick, swing-down door that can be used as a platform for loading and unloading flasks, counterweight for easy opening and closing and dial control with six temperature settings up to 2,000°F. Please see page 215 for our pyrometer and Type K thermocouple (#265-1920).

C

Electrical: 240V, 13A, 1 Ph, 3.1kW, 50/60Hz.

Measures 17½"W x 17½"D x 17½"H with 12"W x 12"D x 8"H chamber.

Ship. Wt: 136 lbs.

	Description	FOB Shipping Point	Item#	Each
C.	Heavy-Duty Burnout Furnace	TX	**265-1450**	**$999.00**
	Replacement Heating Element		265-1448	54.25
	Replacement Thermocouple		265-1921	66.75

All prices subject to change without notice.

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A

A. Paragon® Programmable Controller – For Electric Ovens

Offers ramp-type burnout program with 6 temperature settings, 6 time settings (runs from 0–99 hours) and delay start. Includes detailed instructions with a short form version on the front of the unit so you'll never forget. Made in USA.

Features:

- Digital temperature display in °F or °C
- High-temperature safety shutoff
- Type K thermocouple

Specifications:

Electrical: 120V or 240V, 50/60Hz
Dimensions: 6½"W x 4"D x 15½"H
Ship. Wt.: 10 lbs.

Description	Electrical	Item#	Each
Paragon Controller	120V, 50/60Hz	**265-1453**	**$721.00**
	240V, 50/60Hz	**265-1454**	**752.00**

B

B. Kilnminder 4.E Programmable Controller – For Electric and Gas Ovens

Offers standard and ramp-type burnout programs with ramp time and dwell time from 0–42 hours in 10-minute increments and delay start from 0–85 hours in 20-minute increments. Boasts 99-program memory (a program can consist of 1–20 stages, each of which controls kiln temperature, ramp time and dwell time). Includes detailed instructions. Made in USA.

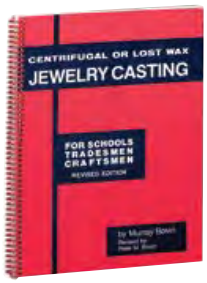
Features:

- Digital temperature readout in °F or °C
- Temperature control precision of ±8°F (±5°C)
- Elapsed time display
- Security lock to prevent accidental program changes
- Electronic feedback to eliminate temperature overshoot
- High-temperature safety shutoff & Built-in surge protector
- Power outage return
- Secondary thermocouple accommodation for backup purposes

Specifications:

Electrical: 90–250V, 50/60Hz
Dimensions: 6⅝"W x 8½"D x 4½"H
Ship. Wt.: 6 lbs.

Description	Electrical	Item#	Each
Kilnminder 4.E Controller	90–250V, 50/60Hz	**265-1514**	**$550.00**



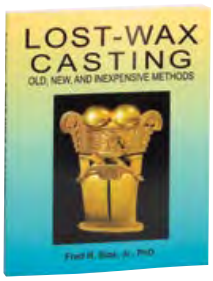
C

C. Centrifugal or Lost Wax Jewelry Casting

By Murray Bovin, Revised by Peter M. Bovin

Entire casting process in step-by-step detail. An excellent reference source for any caster. Covers different methods of casting, describing all processes involved plus tools and equipment. Includes dozens of charts that detail burnout programs, investing procedures, metal and casting temperatures and much more. Photos show work in progress. Softcover, 143 pages.

Description	Item#	Each
Centrifugal or Lost Wax Jewelry Casting - Book	**810-2800**	**$21.00**



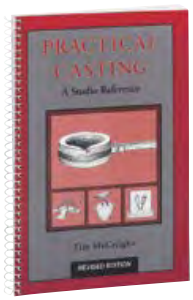
D

D. Lost-Wax Casting: Old, New, and Inexpensive Methods

By Fred R. Sias Jr., Ph.D.

Designed to be used as both a textbook and a reference book, this work is directed primarily at beginners. Places heavy emphasis on understanding the processes involved. Includes chapters on spruing, investing, wax elimination, centrifugal casting, vacuum casting, alloys, finishing and more. Softcover, 201 pages.

Description	Item#	Each
Lost Wax Casting - Book	**810-2956**	**$22.95**



E

E. Practical Casting – *By Tim McCreight*

From the author of *The Complete Metalsmith*, this easy-to-read book devotes six full chapters to the lost wax casting procedure. Discusses alternative casting techniques that utilize sand and cuttlefish bone as well. Contains dozens of invaluable charts, graphs and tables. Spiral-bound to lie flat. Softcover, 122 pages.

Description	Item#	Each
Practical Casting - Book	**811-0035**	**$18.95**

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Representative items pictured; actual items may vary.

A

A. Deluxe Vacuum Casting Kit

For high-quality production casting.

With the Gesswein Deluxe Casting Kit, you can carve original designs in wax, pack, vulcanize and cut rubber molds, inject the rubber molds to make wax patterns, tree your patterns, mix and vacuum the investment, burn out the flasks and vacuum cast them. This kit offers the flexibility to cast both perforated flasks and standard solid-wall flasks. All you need is a melting torch (see p. 526) or electric melter (see p. 225) to cast from one item to over 50 items per day depending on size. Add extra flasks and cast even more Electrical: 115V (220V available).

Ship. Wt: 280 lbs. (Can ship UPS Ground)

Description	Item#	Each
Deluxe Vacuum Casting Kit (H)	265-1161	$3,850.00

(H) *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

Includes:

- Deluxe Vacuum Casting Machine, Model T1
- SC3 Fiber Furnace
- Hand Pump Wax Injector (2¾ qts.)
- Junior Vulcanizer
- Perforated Flask, 3½"D x 4"H
- Sprue Base for above
- Perforated Flask Sleeve
- Perforated Flask Tongs
- Solid-Wall Flasks (2)
- Sprue Bases for above (2)
- Rubber Flask Sleeve
- Standard Flask Tongs
- Mold Release Spray
- Sprue Former and Rod (10)
- Dial Thermometer
- Knife Blades (10)
- Knife Handle
- Injection Wax (5 lbs.)
- Injection Mold Plates
- Investment (15kg/33#)
- Investment Scale & Scoop
- Spatula
- Rubber Mixing Bowl
- Graduated Cylinder
- Handled Melting Crucible
- Heat-Resistant Gloves
- Carbon Stirring Rod
- Mold Rubber (5 lbs.)
- Mold Frames (2)
- Mold Frame Plates (4)
- Ferris Bubble Guard
- File-A-Wax Set
- Sprue Wax (1 lb.)
- Sticky Wax
- Wax Carving Tools (set of 6)
- Alcohol Lamp
- *Jewelry Casting* book, by Murray Bovin

B. Basic Vacuum Casting Kit

All you need is a melting torch and our Basic Vacuum Casting Kit to cast your own wax patterns one piece at a time or to make small trees to cast several items at once. An excellent casting reference book is included. Electrical: 115V.

Ship. Wt: 155 lbs. (Can ship UPS Ground)

Description	Item#	Each
Basic Vacuum Casting Kit	265-1167	$2,150.00

Includes:

- Vacuum Casting Machine, Model T3
- Ney Fiber Furnace
- Investment (15kg)
- Investment Scale
- Investment Scoop
- Rubber Mixing Bowl, Spatula
- Graduated Cylinder
- Heat-Resistant Gloves
- Solid-Wall Flasks (2)
- Flask Tongs
- Sprue Bases (2)
- Sticky & Sprue Waxes
- Wax Carving Tool
- Bubble Guard
- Alcohol Lamp
- Carbon Stirring Rod
- Handled Melting Crucible
- *Jewelry Casting* book, by Murray Bovin

Representative items pictured; actual items may vary.

Substitutions: We will be happy to consider substitutions, at your request, of the major pieces of equipment in any of our Casting Kits. For example, if you substitute a larger furnace (which will accommodate more flasks) you can cast dozens or even hundreds of items per day using the same casting machine. Please call our Inside Sales Department for price quotations on kits with substitute items.

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A

A. T1.5 Deluxe Vacuum Casting/Investing Machine

For both standard and perforated flasks

Our benchtop caster allows you to invest your flasks under vacuum on the left side of the machine and vacuum cast both perforated and standard flasks on the right side. Turn the control handle to "Investment Table," and the powerful 3 CFM vacuum pump pulls air bubbles from the investment under a 9" dia. x 8½"H bell jar. Turn the handle to "Casting Chamber," and vacuum is redirected to the casting side. Three adapters are included to cast small and large perforated flasks (up to 5" x 7") and standard solid-wall flasks. Use of perforated flasks in the casting chamber allows vacuum to be pulled from both the walls and bottom of the flask, ensuring a complete fill and denser casting. Made in USA.

Includes:

- Two adapter plates to cast 3½" and 4" dia. flasks (no adapter plate needed for 5" flasks)
- Adapter plate to cast solid-wall flasks
- Bell jar, flask tongs, vacuum pad, 1 pt. vacuum pump oil
- 3½" x 4" perforated flask, 3½" sprue base

Specifications:

Electrical	110V, 6A, 60Hz or 220V, 3A, 50Hz
Construction	Steel, powder-coated finish
Motor	1/2 HP
Vacuum Pump	3 CFM
Ship. Wt.	90 lbs.

Description	Item#	Each
A. T1.5 Casting/Investing Machine, 110V	**265-1580**	**$1,075.00**
T1.5 Casting/Investing Machine, 220V	**265-1585**	**1,075.00**
Vacuum Pump Oil, 1 quart	**265-1700**	**12.95**

B

B. Vacuum Casting/Investing Machine, Model T3 – For standard flasks

An ideal system to use when space is at a minimum! The 1/2 HP, 3 CFM vacuum pump will create a negative pressure equal to 27–29" Hg at sea level to eliminate air bubbles from investment and for vacuum-assist casting. Includes vacuum pump, 6' hose and connections, built-in vacuum gauge, sturdy Plastic bell jar (9"D x 8"H inside), rubber investing pad and silicone casting pad. Recommended for flasks up to 4" x 4". Electrical 110V, 6A, 60Hz. Casting unit measures 12½"L x 12½"W.

Description	Ship. Wt. (lbs.)	Item#	Each
B. T3, complete	55.5	**265-1755**	**$820.00**
T3, without vacuum pump	21	**265-1756**	**405.00**
Vacuum Pump only	34.5	**265-1757**	**428.95**
Replacement Bell Jar	–	260-4175	68.40

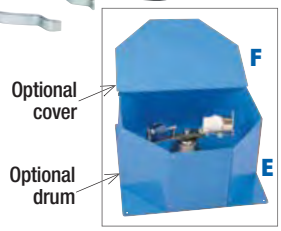
C

C. Neycraft Centrifugal Casting Machine

Features built-in protective safety shield, an easy winding/locking and release mechanism, instant balance with counterbalance weight, universal flask carriage to accommodate flasks up to 4" x 4", and two-way mounting base for quick setup and storage. Complete with 9 troy oz. crucible, flask tongs, 2 flasks (2" x 2" and 4" x 4") and 2 sprue bases. Measures 20" dia. x 12"H.

Description	Item#	Each
C. Neycraft	**265-1220**	**$950.00**
Replacement Main Spring	265-1222	135.00
Replacement Crucible, 9 oz.	260-9020	30.00

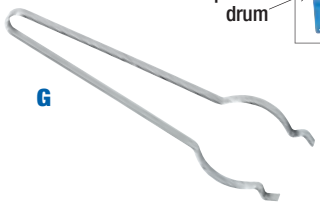
D



D-F Centrifugal Casting Unit #5

Extra-long arm with heavy-duty spring ensures denser, porosity-free casting. Will accept flasks up to 3½" x 5". Complete with 2 cradles and weights for balance, 3 stainless steel flasks (2½" x 2½", 3" x 3", and 3½" x 5"), universal sprue base, 12½ troy oz. crucible and flask tongs. Caution: mount in Casting Machine Drum #265-1170 or washtub to prevent injury from metal spillage. Measures 21¾"L x 10¼"H.

Description	Item#	Each
D. Unit #5	**265-1200**	**$495.00**
E. Optional #5 Drum	**265-1170**	**103.20**
F. Optional #5 Cover for Drum	**265-1171**	**60.80**
Replacement Small Cradle	265-1205	9.45
Replacement Large Cradle	265-1206	9.45



G

G. 15" Flask Tongs

Specially designed for holding small to large heated flasks. Made of spring-tempered steel. Measure 15" long.

Description	Item#	Each
15" Flask Tongs	**195-0200**	**$6.20**

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A, B Ti-Research Cast/T Centrifugal Casting Machine

Cast/T is an award-winning centrifugal casting device designed to make casting more efficient and versatile. The compact machine is designed for torch melting and can cast silver, gold, platinum and stainless steel. In fact, Cast/T can handle any metal or alloy that can be melted and cast under atmospheric conditions. Cast/T can even produce rings with stones in place. A maximum of 450 grams of gold can be cast in one cycle within its compact frame.

In contrast to conventional centrifugal machines, the flask does not sit at the end of a revolving arm. Instead it rotates in place along its own axis. Patterns are not treed but sprued radially onto a wax disk to effectively fill the mold during casting. Because no tree or center sprue is necessary, Cast/T cuts metal waste by about 50% over traditional casting methods.

Don't let Cast/T's small size fool you; it can handle up to 25 ladies' rings per flask. The unique flask design allows you to use less investment and to fit more flasks in your oven. Three different mold sizes are available to accommodate both large and small jewelry models and a wide variety of casting needs.

A

Cast/T spins the flask at a fast speed of 1,100rpm to ensure complete fills of even high-temperature metals such as platinum and stainless steel. As a result, Cast/T requires a strong investment. Dental investments can be used, but for consistent, predictable results, we recommend All Cast (see p. 211). Both models include small mold ring (flask), large mold ring, 250g crucible, crucible holder, sprue base, five wax sprue disks, pair of tongs and comprehensive instruction manual.

Electrical: 115V, 40W, 60Hz or 230V, 30W, 50Hz. Measures 6.6" dia. x 10"H. Weighs 19 lbs. Meets stringent European safety standards, including CE and TUV. Backed by a two-year manufacturer's warranty (excludes consumables). Made in Germany.

	Description	Electrical	Item#	Each
A.	Cast/T Tabletop Machine	115V, 60Hz	**265-5002**	**$3,450.00**
		230V, 50Hz	**265-5003**	**3,450.00**
B.	Cast/T Recessed Machine	115V, 60Hz	**265-5000**	**3,650.00**
		230V, 50Hz	**265-5001**	**3,650.00**

	Description	Size (mm)	Item#	Each
	Small Mold Ring	100mm dia. x 30mm H	**265-5006**	**$69.95**
	Small Mold Ring Divider*	30mm H	**265-5007**	**89.50**
	Large Mold Ring	100mm dia. x 60mm H	**265-5008**	**79.00**
	Mold Base	100mm dia.	**265-5009**	**83.50**
	Wax Sprue Discs, pkg. of 25	–	**265-5010**	**29.00**
	150g Crucible, pkg. of 5	–	**265-5011**	**125.00**
	250g Crucible, pkg. of 5	–	**265-5012**	**139.00**
	450g Crucible, pkg. of 5	–	**265-5013**	**169.00**

**Partitions small mold ring to save investment when casting just one wax model.*

B

C. Heat-Resistant Gloves with Aluminized Back

Gloves are manufactured from 22 oz. basket-weave fiber blended with fiberglass. Aluminized back protects against radiant heat while wool lining protects against contact heat. Specially designed for better cooling, comfort and safety. Gloves have been used in temperatures up to 800°F for brief contact. Wide cuff openings allow gloves to be dropped with the flick of the wrist in case of excess heat buildup. Measure 14" long.

Description	Item#	Each
Heat-Resistant Gloves, pair	**816-1020**	**$53.95**

C

D-E Heat-Resistant Gloves

For safe, easy handling of hot objects. Gloves are fully lined with black felt and manufactured from 22 oz. basket-weave fiber blended with fiberglass. Ideal for use in temperatures up to 1,000°F for brief contact. Extra-wide cuff openings allow gloves to be dropped with a flick of the wrist in case of molten splash or excess heat buildup.

	Description	Item#	Each
D.	14" Gloves, pair	**816-1015**	**$41.95**
E.	23" Gloves, pair	**816-1016**	**76.50**

D E

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Ⓗ *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

A-J Crucibles

Long-lasting, quality crucibles. Clay crucibles can be used up to 2,500°F; Wesgo crucibles used for higher platinum temperatures. Crucibles A-G are designed for use in casting machines.

	Description	Capacity	Item#	EACH Prices 1-5	6+
A.	Wesgo A	3 oz.	**260-8700**	**$24.50**	**$23.28**
B.	Wesgo D	10 oz.	**260-8750**	**39.75**	**37.76**
C.	Ney	9 oz.	**260-9020**	**30.00**	**-**
D.	Style 1	7 oz.	**260-8900**	**15.95**	**15.15**
E.	Style 2	12½ oz.	**260-8950**	**16.95**	**16.10**
F.	Style 3	25 oz.	**260-8955**	**30.25**	**28.74**
G.	Kerr	12 oz.	**260-9030**	**38.80**	**-**
H.	Wesgo Plat.	8 oz.	**260-8800**	**22.00**	**20.90**
I.	Wesgo HB Plat.	10 oz.	**260-8810**	**24.35**	**23.13**
J.	Burno	100 dwt.	**260-8550**	**16.80**	**-**
	Burno	50 dwt.	**260-8600**	**16.75**	**-**
	Burno	25 dwt.	**260-8650**	**13.75**	**-**

K. Crucible with Handle

This melting dish has a removable heat-resistant wooden handle for ease in melting and pouring of metal. Made of fused silica with clay bond and is suitable for melting precious metals. 6 oz. capacity.

	Description	Item#	Each
K.	Crucible with Handle	**260-8400**	**$19.95**
	Crucible only, 6 oz.	**260-8410**	**14.85**
	Handle only	**260-9050**	**6.95**

L. Stainless Steel Crucible Tongs

Sturdy stainless steel, with finger grips. Specially formed ends will hold crucibles and small flasks. Measure 18" long.

Description	Item#	Each
Stainless Steel Crucible Tongs	**195-0150**	**$26.95**

M. Bent Crucible Tongs

For picking up and holding crucibles and other hot objects. Measure 19" long.

Description	Item#	Each
Bent Crucible Tongs	**195-0225**	**$15.10**

N. Burno Tongs

Shaped to hold all Burno crucibles. Measure 10" long.

Description	Item#	EACH Prices 1-2	3+
Burno Tongs	**195-0050**	**$3.10**	**$2.79**

O, P ZO Paint for Crucibles

Prevents platinum contamination during casting

ZO Paint is a calcia-stabilized zirconium oxide (ZrO_2) paint which shields platinum from harmful chemicals leached out of silica or quartz crucibles. Preventing platinum contamination and brittle, porous casting. Best applied in several thin coats with an airbrush (sold separately). Quick to dry. Because it allows you to use the same crucible for more melts without worrying about contamination, you get the most out of each crucible. Use Airbrush Set (includes 9 oz. Propel propellant) to apply in multiple thin layers.

	Description		Item#		Each
O.	ZO Paint, pint		**260-9150**		**$89.95**
	ZO Paint, quart		**260-9151**		**121.95**
	ZO Paint, gallon		**260-9152**		**402.00**
P.	Air Brush Set	Ⓗ	**260-1780**		**49.99**
	Replacement Propel can (9 oz.)	Ⓗ	260-1781	12pc	10.40

12pc *Twelve-piece minimum; Please order in multiples of twelve.*

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A Salamander Graphite Crucibles

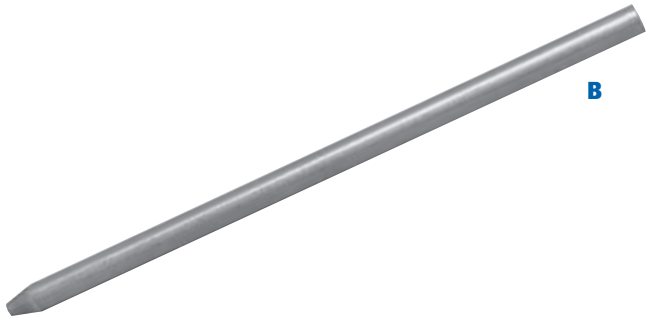
Top-quality crucibles resistant to high heat and thermal shock. Consist of natural flake graphite and silicon carbide bonded with fire clay. Lined with mullite for long life. Include spouts for easy pouring. Dimensions and capacities may vary slightly from those listed.

Style	Dia. x H	18K Gold Capacity (dwt/grams)	Item#	Each
4/0	2 3/8" x 3"	600/935	**260-8050**	**$8.95**
1	3 1/8" x 3 5/8"	1,500/2,330	**260-8100**	**16.00**
2	3 11/16" x 4 1/2"	2,400/3,730	**260-8150**	**21.25**
3	4 1/8" x 5 5/8"	4,320/6,720	**260-8200**	**22.50**
4	4 9/16" x 5 3/4"	5,120/7,960	**260-8250**	**27.50**
6	5 1/4" x 6 1/2"	7,830/12,175	**260-8300**	**59.95**

B. Carbon Stirring Rods

Used to stir molten metal in crucibles while helping pick up impurities. Measures 12" long.

	Description	Diameter	Item#	Each
	Carbon Stirring Rods	1/4"	**260-3152**	**$3.95**
B.	Carbon Stirring Rods	1/2"	**260-3150**	**5.25**



C. Quartz Stirring Rod

Non-contaminating rod for stirring molten metal. Made of pure fused silica. Stays cool and cleaner and lasts longer than carbon. Electrically nonconductive, perfect for use with induction melters. Measures 3/8" diameter x 12" long.

	Description	Diameter	Item#	EACH Prices 1-9	10+
C.	Quartz Stirring Rod	3/8"	**260-3161**	**$10.25**	**$9.23**

D. Ceramic Oval Stirring Rod

Very long-lasting. Does not contaminate metal while stirring. Electrically nonconductive—excellent for use with induction melting machines. Measures 12" long.

Description	Diameter	Item#	Each
Ceramic Oval Stirring Rod	3/4"	**260-3155**	**$8.95**

E, F Borax

Glaze your crucibles with borax to extend crucible life and to protect melting metal from oxidation.

	Description	Item#	Each
E.	8 oz. powder	**811-0700**	**$6.50**
F.	5 lbs. powder	**811-0701**	**23.95**
	50 lbs. powder	**811-0702**	**185.00**

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A

A. Gesswein® Alloys

Add 24K gold to our high-purity alloys to create the karat and color that you desire (18K-75% fine gold, 25% alloy; 14K=58.33% fine gold, 41.67% alloy; 10K=41.67% fine gold, 58.33% alloy). Can also be used to lower karat. Sold in shot form and packaged in pre-weighed bags. White alloys contain nickel. Since the price of alloy will fluctuate with the price of silver, please consider prices below as approximate.

Color	To Make	Alloy Liquidus Temp	10K Liquidus Temp	14K Liquidus Temp	18K Liquidus Temp	Pkg. Wt.	Item#	PKG. Prices
White	10K, 14K	2,100°F	1,615°F	1,740°F	–	10 troy oz.	**857-2020**	**$44.70**
White	18K	2,165°F	–	–	1,670°F	10 troy oz.	**857-2030**	**59.40**
Yellow	10K, 14K	1,715°F	1,555°F	1,545°F	–	5 troy oz.	**857-2000**	**45.22**
Hamilton Yellow	18K	1,555°F	–	–	1,585°F	5 troy oz.	**857-2010**	**68.32**

B

C

B. Re-Cast It

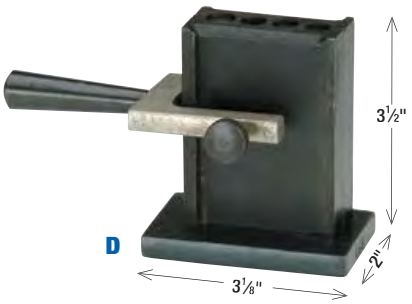
A remarkable alloy additive that restores the fluidity, color and brightness of old or scrap yellow gold before you cast it. Use to eliminate the porosity associated with casting old gold. Add 5% to your gold, melt and stir. Flow temperature: 1,950°F. One jar casts up to 800 dwt of gold. Ship. Wt: 2 oz.

Description	Item#	Each
Re-Cast It	**857-3010**	**$57.10**

C. Manganese Bronze Casting Grain

This nonprecious alloy resembles 14K gold. It can be oxidized, antiqued or plated. Great for sample lines to avoid theft and use of gold. Should only be torch melted. Casting temp: 1,700-2,100°F. Melting point: 1,620°F. Specific gravity: 8.3.

Description	Item#	LB. Prices 1-9	10+
Manganese Bronze Casting Grain	**857-2995**	**$23.75**	**$20.19**



D

D. Combination Sliding Ingot Mold

High-quality finished steel mold for converting clean scrap metal into convenient and usable shapes. Great versatility—round and different size flat shapes can easily be formed. Flat width adjustable up to 2". Simply melt metal, heat ingot and pour.

Ingot Sizes:

Round: 3, 4, 5 and 6mm

Flat: 80 x 50 x 4mm

Description	Item#	Each
Combination Sliding Ingot Mold	**268-1100**	**$41.10**

E

E. Sliding Ingot Mold

Used to convert clean scrap metal into flat stock for rolling. Molten metal is poured into the mold, which can be parted by removing the clamp. Each mold can be made smaller by adjusting the sides in a horizontal direction. Maximum capacity: 115 dwt. Maximum ingot size: 50 x 45 x 3.5mm.

Description	Item#	Each
Sliding Ingot Mold	**268-1260**	**$37.50**

F

F. Econo Extra-Long Wire Ingot Mold

One-piece cast-iron mold with handle. Use for making wire ingots. Features three 9¼" long depressions: two are approximately ⅛" wide, and the third is approximately ⅜" wide. Measures 15" long.

Description	Item#	Each
Econo Extra-Long Wire Ingot Mold	**268-1201**	**$26.50**

G

G. Small Wire Ingot Mold

Makes strips in three sizes: 19mm x 8mm x 170mm, 7mm x 8mm x 170mm and 9mm x 9mm x 170mm. Measures 11¼" long.

Description	Item#	Each
Small Wire Ingot Mold	**268-1250**	**$11.50**

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A. Accu-Melt Furnace

Electric melting furnace for melting gold, silver and other nonferrous alloys for casting, ingot or shot making. Graphite crucible has a capacity of 1kg pure gold. Groove in crucible lip makes it easy to remove crucible from melter with special tongs (included). A full 700W of power provides temperatures up to 2,012°F. Digital operation with digital temperature readout. Supplied with one crucible and tongs. Made in Italy.

Specifications:

Electrical: 110V, 700W, 60Hz or 220V, 1 Ph, 700W, 60Hz
Capacity: 1kg fine gold (32.15 troy oz.)
Dimensions: 9"W x 9"D x 13½"H

	Description	Item#	Each
A.	Accu-Melt, 110V	**265-2150**	**$625.00**
	Accu-Melt, 220V	**265-2149**	**745.00**
	Optional Carbon Stirring Rod, 12"L x ¼" dia.	**260-3152**	**3.95**
	Optional Carbon Stirring Rod, 12"L x ½" dia.	**260-3150**	**5.25**
	Replacement Crucible	265-2152	42.90
	Replacement Tongs	265-2154	48.00

B-E Kerr® Automatic Electro-Melt and Maxi-Melt

These self contained furnaces offer the additional feature of an electronic controller that holds the temperature you set to within ±5°F! Most importantly, their electronics are designed to eliminate temperature overshoot. Each unit features a bright LCD for °F or °C readouts and a safety switch. CE and UL approved.

Specifications:	Auto Electro-Melt	Auto Maxi-Melt
Electrical:	120V, 6.2A, 50/60Hz or 230V, 3.1A, 50/60Hz	120V, 11.3A, 50/60Hz or 230V, 5.6A, 50/60Hz
Capacity:	30 troy oz.	100 troy oz.
Max. Temp.:	2,050°F	2,050°F
Firing Time:	21 min. to 1,800°F	31 min. to 1,800°F
Dimensions:	8¼"W x 6¼"D x 13½"H	8¼"W x 6¼"D x 15"H

	Description	Electrical	Item#	Each
B.	Auto Electro-Melt	120V	**265-1283**	**$696.29**
		230V	**265-1284**	**696.29**
C.	Auto Maxi-Melt	120V	**265-1256**	**1,550.00**
		230V	**265-1261**	**1,650.00**

	Description	Size	Item#	EACH Prices 1-9	10+
D.	Replacement Crucible for Electro-Melt	30 oz.	260-8000	$49.75	$44.78
E.	Replacement Crucible for Maxi-Melt	100 oz.	260-8005	66.30	59.67

F. Heat-Resistant Gloves with Aluminized Back

Gloves are manufactured from 22 oz. basket-weave fiber blended with fiberglass. Aluminized back protects against radiant heat while wool lining protects against contact heat. Specially designed for better cooling, comfort and safety. Gloves have been used in temperatures up to 800°F for brief contact. Wide cuff openings allow gloves to be dropped with the flick of the wrist in case of excess heat buildup. Measure 14" long.

Description	Item#	Each
Heat-Resistant Gloves, pair	**816-1020**	**$53.95**

G, H Heat-Resistant Gloves

For safe, easy handling of hot objects. Gloves are fully lined with black felt and manufactured from 22 oz. basket-weave fiber blended with fiberglass. Ideal for use in temperatures up to 1,000°F for brief contact. Extra-wide cuff openings allow gloves to be dropped with a flick of the wrist in case of molten splash or excess heat buildup.

	Description	Item#	Each
G.	14" Gloves, pair	**816-1015**	**$41.95**
H.	23" Gloves, pair	**816-1016**	**76.50**

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Induction Casting Machines

ASEG GALLONI Company, established in Italy in 1948, was the first in the world to produce electronic induction machines for melting and casting special metals, precious and non-precious alloys for the global jewelry and dental markets.

Using expertise and experience gained over many years, Galloni manufactures a wide and comprehensive range of electronic casting machines for gold, silver and platinum that are applicable to every type of lost-wax casting requirement.

Galloni Company manufactures its equipment in compliance with the CE standards and is certified according to ISO 9001, CISQ, IQNet.

Pressovac Max

Galloni Pressovac Max

Incorporates state-of-the-art features for high-production casting of both platinum and gold with extremely fast cycle times: 4 minutes for gold and platinum.

- Full vacuum casting chamber to radically enhance crucible life and to remove gases from the flask, minimizing or eliminating gas porosity.
- After vacuuming, the casting chamber is flooded with inert gas to prevent oxidation of gold and platinum/cobalt alloys.
- Medium-frequency induction melting with self-stirring effect for homogeneous melts.
- Produces extremely dense castings.

Includes one crucible kit and flask cradle along with a metal stirring rod and flask tongs. Backed by a two-year manufacturer's warranty. CE approved.

Specifications:

Power:	5kW
Max. Crucible Capacity:	350g Platinum
	800g 18K Gold
	1.0kg 24K Gold
	500g Silver
	180g Palladium
	400g Steel
Max. Flask Size:	4" dia. x 5"H, solid wall
Max. Temperature:	3,812°F (2,100°C)
Air Requirement:	100-120 PSI
Water Requirement:	2 liters/minute
Vacuum Requirement:	7 CFM
Inert Gas Requirement:	Nitrogen, helium or argon
Electrical:	230V, 1 Ph or
	230V, 400V, 415V, 440V 3 Ph
Dimensions:	26.8"W x 19.7"D x 47.2"H
Net Wt.:	353 lbs.

Description	Item#	Each
Galloni Pressovac Max	**265-0869**	**Please Call**
Vacuum Pump, 7 CFM, 110V	**265-2404**	**$767.00**
Vacuum Pump, 7 CFM, 220V	**265-2406**	**785.00**
Gold Kit	**265-0891**	**1,710.00**
Platinum Kit	**265-0892**	**1,125.00**
Steel Kit	**265-0893**	**1,034.00**

Galloni Pressovac

Compact electronic induction vacuum/pressure casting machines scaled down to a smaller size. Pressovac is a perfect entry-level induction caster that will keep up with your production as your business grows. The melting/casting chamber and cover are made of thick anodized aluminum, and both cover and chamber floor are water-cooled so that chamber stays cool even after multiple castings—there's no downtime between casts! Cycle time is 4 minutes.

Pressovac can cast gold, silver, platinum, palladium, titanium alloys and steel and handles all types of models. Melts via medium frequency electronic induction for quick self-stirring homogeneous melt, then casts under vacuum with powerful over-pressure of inert gas to simultaneously pull and push the metal into the flask. Guaranteed dense castings without the brittleness, cracking or subsurface porosity that cause expensive rework or customer returns.

Pressovac Optical includes an optical pyrometer for accurate temperature measurement of platinum, palladium, titanium or steel. Supplied with 3 crucibles (1 each for gold/silver, platinum, and palladium/steel) and a flask adapter for a 3.5" x 3.5" flask along with a metal stirring rod and flask tongs. **Can also cast gold and silver but if accurate temperature measurement is needed for these metals, we recommend the Pressovac Dual below.**

Pressovac Dual includes both an optical pyrometer (for platinum, palladium, titanium alloys or steel) and an immersion thermocouple (for gold/silver) making it suitable for all metals. Supplied with 1 crucible kit (choose from these kits: gold/silver, or platinum/palladium/steel) and a flask adapter for a 3.5" x 3.5" flask along with a metal stirring rod and flask tongs.

See below for recommended starter kit which you can choose when placing your order. Backed by a two-year manufacturer's warranty.

Pressovac

Casting Chamber

Control Panel

Crucible Pot

Specifications:	Pressovac (Optical)	Pressovac (Dual Pyrometer)
Power:	3.0kW	3.0kW
Max. Crucible Capacity:	110g Platinum 150g 18K Gold 200g 24K Gold 100g Silver 110g Palladium 90g Steel	110g Platinum 250g 18K Gold 300g 24K Gold 220g Silver 110g Palladium 90g Steel
Max. Flask Size:	3.5" dia. x 3.5"H	3.5" dia. x 3.5"H
Max. Temperature:	3,812°F (2,100°C)	3,812°F (2,100°C))
Air Requirement:	100-120 PSI	100-120 PSI
Water Requirement:	2 liters/minute	2 liters/minute
Vacuum Requirement:	7 CFM	7 CFM
Inert Gas Requirement:	Nitrogen, helium or argon	Nitrogen, helium or argon
Electrical:	230V, 1 Ph, 50/60Hz	230V, 1Ph, 50/60Hz
Dimensions:	23.6"W x 19.7"D x 18.9"H	23.6"W x 19.7"D x 18.9"H
Net Wt.:	199 lbs.	199 lbs.
Item#:	#265-0861	#265-0890

Description	Item#	Each
Galloni Pressovac Optical	**265-0861**	**Please Call**
Galloni Pressovac Dual Pyrometer	**265-0890**	**Please Call**
Vacuum Pump, 7 CFM, 110V	**265-2404**	**$767.00**
Vacuum Pump, 7 CFM, 220V	**265-2406**	**785.00**
Pressovac Dual Gold Kit	**265-0816**	**1,685.00**
Pressovac Dual Platinum, Palladium or Steel Kit	**265-0817**	**1,108.75**

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G1

G3

Galloni G1 Plus, G1 Power Plus and G3 Casting Machines

The three Galloni "G" series casting machines are the most advanced "over-pressure" induction machines for gold and silver casting now available, featuring low-frequency generators and fully proportional computer-controlled power output.

The latest and most advanced heated vacuum over-pressure machines available worldwide, with low-frequency generators and fully proportional computer-controlled power output. These unique machines contain both crucible and flask in a single chamber. This design ensures gas is applied at full pressure, without constriction — for a denser casting than can be obtained from other brands of machines which have separate flask and crucible chambers.

When casting temperature is reached, 60 PSI is exerted to produce castings with a very smooth surface and dense, compact interior. Constant self-stirring ensures homogeneity of molten metal. Surface and subsurface porosity are virtually eliminated. Complete cycle takes 3–4 minutes.

The G1 Plus is an excellent entry level unit while the G1 Power Plus can handle high production. If you cast large amounts of silver, the G3 will suit your needs.

Includes one gold crucible, metal stirring rod and flask tongs. Backed by a two-year manufacturer's warranty. CE approved. Optional graining unit also available. **Call for pricing.**

Crucible

Specifications	G1 Plus	G1 Power Plus	G3
Power	6kW	9kW	12kW
Max. Crucible Capacity	2.0kg 24K Gold 1.3kg 18K Gold 1.0kg Sterling	2.0kg 24K Gold 1.6kg 18K Gold 1.4kg Sterling	3.5kg 24K Gold 2.8kg 18K Gold 2.0kg Sterling
Max. Flask Size	150mm dia. x 250mm H	150mm dia. x 250mm H	150mm dia. x 300mm H
Max. Temperature			
Type "K" thermocouple	2,102°F (1,150°C)	2,102°F (1,150°C)	2,102°wF (1,150°C)
Type "S" thermocouple	2,642°F (1,450°C)	2,642°F (1,450°C)	2,642°F (1,450°C)
Casting Cycle	4 min.	4 min.	3 min.
Air Requirement	100–120 PSI	100–120 PSI	100–120 PSI
Water Requirement*	3 liters/min.	3 liters/min.	3 liters/min.
Vacuum Requirement	40–60m^3/hr. (sold separately)	40–60m^3/hr. (sold separately)	60m^3/hr. (sold separately)
Inert Gas Requirement	Nitrogen, Helium or Argon	Nitrogen, Helium or Argon	Nitrogen, Helium or Argon
Electrical	230/400/415/440V, 3 Ph 50/60Hz	230/400/415/440V, 3 Ph 50/60Hz	230/400/415/440V, 3 Ph 50/60Hz
Dimensions	24"W x 24"D x 44½"H	24"W x 24"D x 44½"H	28½"W x 28½"D x 51¼"H
Net Wt.	407 lbs.	407 lbs.	616 lbs.
Item	**#265-0841**	**#265-0842**	**#265-0845**

*Pipe directly to cold water line, or use a recirculating pump with tank or a chiller.

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Galloni Platinaurum Vac

Advanced vacuum induction/centrifugal casting machine for platinum, white and yellow gold, steel and silver. Keeps casting chamber under full vacuum to remove porosity-causing gases from the invested flask and supplies inert gas protection to ensure metal is oxidation-free. Provides accurate temperature measurement with dual-pyrometer system: optical pyrometer reads platinum temperatures up to 3,812°F (2,100°C); immersion thermocouple reads gold and silver temperatures up to 2,642°F (1,450°C). Pneumatically actuated induction coil automatically makes and breaks the thermocouple circuit. Temperature controller regulates proportional power output, stabilizing the metal temperature at the appropriate set point and eliminating overshoot, another common cause of porosity. Constant self-stirring effect guarantees homogeneity of molten metal.

The platinum crucible kit includes a special ceramic crucible for platinum and steel, the gold crucible kit has a fine-grain graphite crucible for gold and silver. Both also include crucible cover, melting coil and crucible carriage with holding plate. Changeover from one kit to the other is fast and easy.

Includes one crucible kit, metal stirring rod and flask tongs. Backed by a two-year manufacturer's warranty. CE approved.

Features:

- Melts and casts up to 350g platinum and up to 1kg fine gold, as well as steel and silver.
- Makes use of medium-frequency induction melting with constant self-stirring effect for absolute homogeneity from top to bottom of cast tree.
- Provides repeatable results with fully programmable casting parameters, including precise metal temperature, arm acceleration and speed, vacuum pressure and gas pressure.
- Draws 25m³/hr. of air with integral vacuum pump.

Platinaurum Vac

Specifications:

Electrical	230V, 3 Ph, 50/60Hz
Power	5kW
Frequency	Approx. 30kHz
Max. Crucible Capacity	350g Platinum
	800g 18K Gold
	1.0kg 24K Gold
	500g Silver
	180g Palladium
	400g Steel
Max. Flask Size	5" x 5" (120 x 120mm)
Casting cycle	4 minutes
Air Requirement	100-120 PSI
Vacuum Requirement	25m³/hr. (included)
Water Requirement	2.5 liters/min. at 60–75°F (20–25°C)
Inert Gas Requirement	Argon or nitrogen
Dimensions	28¾"W x 35½"D x 47¼"H (900 x 730 x1200mm)
Ship. Wt.	473 lbs. (215kg)

Description	Item#	Each
Platinaurum Vac	**265-1244**	**Please Call**
Crucible Kit, Platinum	**265-1236**	**$1,585.00**
Coil, 350g Platinum	**265-1238**	**432.50**
Crucible Plate, 350g Platinum	**265-1068**	**186.75**
Crucible 350g Platinum	**265-0987**	**145.00**
Crucible Kit, Gold	**265-1235**	**1,695.00**
Coil, 1kg Gold	**265-1242**	**432.50**
Crucible Plate, 1kg Gold	**265-1239**	**186.75**
Crucible 1kg Gold	**265-1035**	**39.95**
Lid Cover, 1kg Gold	**265-0964**	**19.70**

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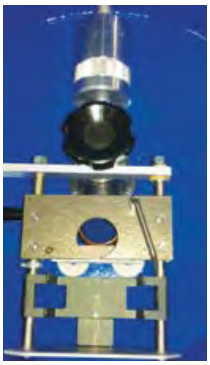
Okay Plus

Front Panel



Casting Chamber

Galloni Okay Plus

Introducing Galloni's newest, high performance, fast action, medium-frequency centrifugal vacuum casting machine. Self-stirring for homogenous melts. Cast up to 350 grams of Platinum, 250 grams of 18K Gold and 200 grams of Silver in minutes using special ceramic crucibles.

The solid-state power generator is electronically controlled and the casting arm is easily balanced and accepts flasks up to 4" x 4" high.

Includes flask, ceramic crucible and cover for gold, ceramic crucible for platinum, melting coil and crucible carriage with holding plate for either gold or platinum, metal stirring rod, eye shield and flask tongs. Backed by a two-year manufacturer's warranty.

Features:

- Automatic movement of coil (pneumatic)
- Vacuum/Gas supply switch
- RPM regulator
- Optical pyrometer

Specifications:

Max. Crucible Capacity	350g platinum 250g of 18K Gold 300g of 24K Gold 220g of Silver 180 of Palladium 150g of Steel
Max. Flask Size	4" dia. x 4"H solid wall
Casting Cycle	4 minutes
Max. Temperature	3,812°F (2,100°C)
Water Cooling	2 liters/minute
Electrical	230V, 5kW, 1 Ph*
Dimensions	24"W x 27"D x 37"H
Air Requirement	100-120 PSI
Vacuum Requirement	20 CFM (Pump included)
Net Wt.	375 lbs.

*Full 220V required

Description	Item#	Each
Galloni Okay Plus w/Vac Pump	**265-1121**	**Please Call**

GALLONI COMPARISON CHART

GALLONI	Pressovac Max	Pressovac Optical	Pressovac Dual Pyrometer	G1 Plus	G1 Power Plus	G3	Okay Plus	Platinaurum Vac
Item #	**265-0869**	**265-0861**	**265-0890**	**265-0841**	**265-0842**	**265-0845**	**265-1121**	**265-1244**
Platinum	30 to 350g	30 to 110g	30 to 110g	–	–	–	30 to 350g	30 to 350g
18K Gold	800g	150g	250g	1.3kg	1.6kg	2.8kg	250g	800g
24K Gold	1.0kg	200g	300g	2.0kg	2.0kg	3.5kg	300g	1.0kg
Silver	500g	100g	220g	1.0kg	1.4kg	2.0kg	220g	500g
Palladium	180g	110g	110g	–	–	–	180g	180g
Steel	400g	90g	90g	–	–	–	150g	400g
Max Flask Size	4" x 6"	3.5" x 3.5"	3.5" x 3.5"	150mm x 250mm	150mm x 250mm	150mm x 300mm	4" x 4"	5" x 5"

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A. Devesting Machine

Use this high power, heavy-duty system to thoroughly clean investment from castings. Two-piece unit has a rollout catch chamber for removal of accumulated investment. Adjustable water spray nozzle is controlled by a foot pedal. Seam-welded steel frame construction with brushed stainless steel body. Internal work light. Front hinged door for optimal viewing. Heavy-duty replaceable rubber gloves.

Specifications:

Electrical: 240V, 15A, 1 PH, 60Hz
Motor: 3 HP
Dimensions:
Overall: 24 3/8"W x 28 3/8"D x 59"H
Workspace: 23 3/8"W x 13 1/2"D x 12 5/8"H
Max. Water Pressure: 1,700 PSI
Water Flow: 10.5L/min.
Net/Ship. Wt.: 293/440 lbs.

	Description	Item#	Each
A.	Devesting Machine	**265-2183**	**$5,750.00**
	Replacement Gloves, pair	265-2185	32.95
	Replacement Nozzle	265-2187	45.00

A

B, C Hydro Air Wash Gun

Removes investment from castings by using compressed air and water. Made of chrome-plated zinc and brass. Includes heavy-duty, squeeze-trigger air valve, rubber nozzle and hand grips for protection against hot water. Reduces cleaning time and eliminates costly cleaning equipment. Operates on 50–200 PSI. Requires 3/4" dia. x 4"L hose (sold separately) for connection to faucet. Net Wt: 3 lbs.

	Description	Item#	Each
B.	Hydro Air Wash Gun	**260-1800**	**$123.50**
C.	Water Hose	**260-1805**	**10.95**

B

C

D. NeyClean SP Investment Remover

Specially formulated NeyClean SP makes quick work of investment removal. The powerful powder formula strips investment from your castings and molds exceptionally fast. If you use it in a heated ultrasonic tank, NeyClean SP works even faster: heat enhances its cleaning power. Better still, the exclusive powder formula can be used over and over again, providing great savings over competitive products. All this and it's even biodegradable! Effective, easy to use, economical and safe for the environment—NeyClean SP is all of these. Supplied in a plastic container. Combined with hot tap water, one container makes 12 1/2 liters (13 qts.) of solution.

Description	Item#	Each
NeyClean SP Investment Remover	**260-4260**	**$35.00**

D

E. Vest Off

A mildly acidic water-based cleaner for removing investment plaster. Dilute with five parts water in ultrasonic cleaner (use auxiliary pan or beaker). Use cold and undiluted as dip. Rinse off with water. Gives off no fumes. Comes in 1-gallon bottle.

		EACH Prices	
Description	Item#	1-4	5+
1-gallon bottle $	**260-4300**	**$35.60**	**$26.70**

$ *UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.*

E

F. Hand Brush with Enclosed Handle

Features stiff nylon bristles set in a durable block with enclosed handle for keeping skin and fingernails clean. Ideal for removing investment and more. Measures 4"L x 1 1/2"W.

	EACH Prices	
Description	Item#	1-2	3+
Hand Brush with Enclosed Handle	**115-2255**	**$3.50**	**$3.15**

F

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A

B

Both units includes power pack, lightweight handpiece, on/off foot switch, wrench and instructions. ST-50 includes Carbide Tip only. ST-60 includes all 5 tips.

A, B SonoCraft Burnishers – Ultrasonic Porosity Removers

SonoCraft units were designed especially for professional jewelers to remove porosity and other surface imperfections quickly and easily. But they are also amazing surface finishers with excellent reach into the tiniest areas: polishing under cathedral settings and cleaning up half round rails. You can polish and burnish areas that are almost impossible to reach by hand which traditionally had to be done with a magnetic tumbler. Both units include power pack, lightweight handpiece, on/off foot switch, wrenches and instructions.

Select between two powerful units:

The **ST-50** comes with one burnishing tip and works on softer metals such as gold and silver. It operates in a continuous mode with a constant fast impact governed by a Variable Rheostat dial. Used for burnishing and polishing.

Our **ST-60** includes five tips and works on the softer metals as well as hard metals such as Platinum. A very versatile machine, the ST-60 has four ultrasonic modes:

Single Hit Mode: Tightens beads onto stones with minimal or no touchup needed.

Intermittent Mode (Slow): Slowly repeating impacts for light engraving.

Intermittent Mode (Rapid): Rapidly repeating impacts for engraving.

Continuous Mode: Constant fast impact for burnishing and polishing.

Benefits:

- Advanced ultrasonic technology drastically reduces finishing time for increased productivity.
- Automatic frequency adjustment provides optimal efficiency for excellent finishing results.
- High output power handles all kinds of metals with ease.

Specifications:	**ST-50**	**ST-60**
Works on	Gold, Silver and other soft metals	Gold, Silver, Platinum and other hard metals
Max. Power Output	30 Watts	40 Watts
Operating Frequency	24kHz	25kHz
Power Consumption	120VA	120VA
Output Adjustment	Continuously variable	Continuously variable
Handpiece Weight	7 oz.	4.5 oz. (without cord)
Electrical	110V or 220V, 50/60Hz	110V or 220V, 50/60Hz
Power Pack Dimensions	6⅞" W x 6⅞" D x 3³⁄₁₆" H	5¾" W x 7¼" D x 5" H
Ship. Weight	5.4 lbs.	6.25 lbs.

	Description	Item#	Each
A.	SonoCraft III Ultrasonic ST-50, 110V	**510-0880**	**$1,990.00**
	SonoCraft III Ultrasonic ST-50, 220V	**510-0881**	**1,990.00**
B.	SonoCraft Ultrasonic ST-60, 110V	**510-0885**	**3,950.00**
	SonoCraft Ultrasonic ST-60, 220V	**510-0886**	**3,950.00**
	ST-60 Tip, V-shape Chisel, 60 Deg	510-0887	130.00
	ST-60 V-shape chisel, 90 Deg	510-0888	130.00
	ST-60 Tip, Flat Graver	510-0889	93.00
	ST-60 Tip, Round Graver	510-0890	125.00
	ST-60 Tip, Burnishing Tool	510-0891	125.00
	ST-50 Carbide Tip	510-0882	68.00

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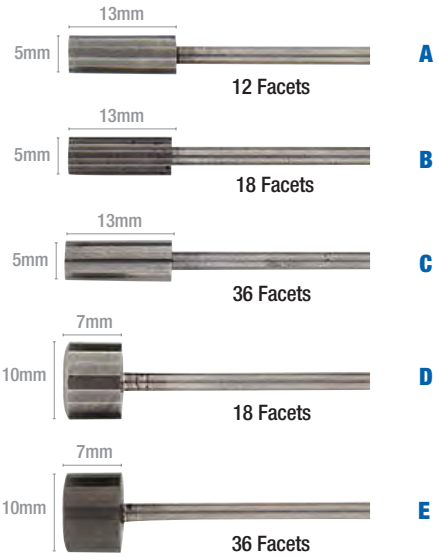
A-E Rotary Burnishers – For platinum, gold and silver

Fastest tools for removing porosity, firescale and scratches. So effective they are patented. Made of highly polished tungsten carbide on 3/32" shanks. Measure 1½" long. Select between a 12, 18, or 36-facet sidewall.

- 12-facet burnisher leaves a coarse finish and covers large pinholes on gold and silver
- 18-facet burnishers leave a medium finish and cover moderate pinholes on all metals
- 36-facet burnishers leave a fine finish and cover small pinholes on all metals.

	Facets	Dia. x H	Finish	Max. RPM	Item#	EACH Prices 1-9	10+
A.	12	5 x 13mm	Coarse	10,000	**811-2170**	**$43.50**	**$39.15**
B.	18	5 x 13mm	Medium	10,000	**811-2171**	**43.50**	**39.15**
C.	36	5 x 13mm	Fine	10,000	**811-2172**	**43.50**	**39.15**
D.	18	10 x 7mm	Medium	8,000	**811-2175**	**43.50**	**39.15**
E.	36	10 x 7mm	Fine	8,000	**811-2176**	**43.50**	**39.15**



F. Margin Roller Burnisher – 3/32" Shank

For burnishing over scratches in gold, making it possible to salvage many pieces without gold loss. Can also be used for burnishing over microporosity in castings. The 3/16" (5mm) head consists of five steel rollers that act as rotating mallets. Measures approximately 1¾" long with 3/32" shank for use with handpiece.

Description	Item#	EACH Prices 1-2	3+
Margin Roller Burnisher	**811-2150**	**$19.95**	**$17.96**

Shown actual size

See pages 158 + 490 for more burnishers.

G. Porosity Killer – 3/32" Shank

For burnishing over porosity in gold, making it possible to salvage highly porous pieces without gold loss. Similar in operation and effect to a margin roller but more aggressive. The 2mm thick head measures approximately ½" x ½" with rounded corners. 1¾" overall length.

Description	Item#	Each
Porosity Killer	**260-1775**	**$15.65**

H. ECO-Torque 280 Rotary Micromotor General Purpose

Our most affordable rotary micromotor system! The ECO-Torque 280 handles a wide range of rotary handpiece applications. Whether you need a system for grinding, drilling, polishing or bright cutting, ECO-Torque 280 will get the job done.

Includes a compact controller with 110/220V selector switch and forward/reverse switch, lightweight 35,000rpm rotary handpiece with 3/32" collet, on/off foot switch, handpiece cradle rest, replacement pair of carbon brushes and collet chuck wrenches. Controller measures 4½"W x 5¾"D x 3¾"H and weighs 2.75 lbs. Handpiece measures 6" long x 1.1" diameter (tapers to 0.7" dia. at finger grips) and weighs 7.3 oz. An optional reducing collet is available (sold separately, see p. 434) to reduce collet size from 3/32" to 1/16" to run high-speed burs.

Description	Item#	Each
ECO-Torque 280	**510-2975**	**$199.95**

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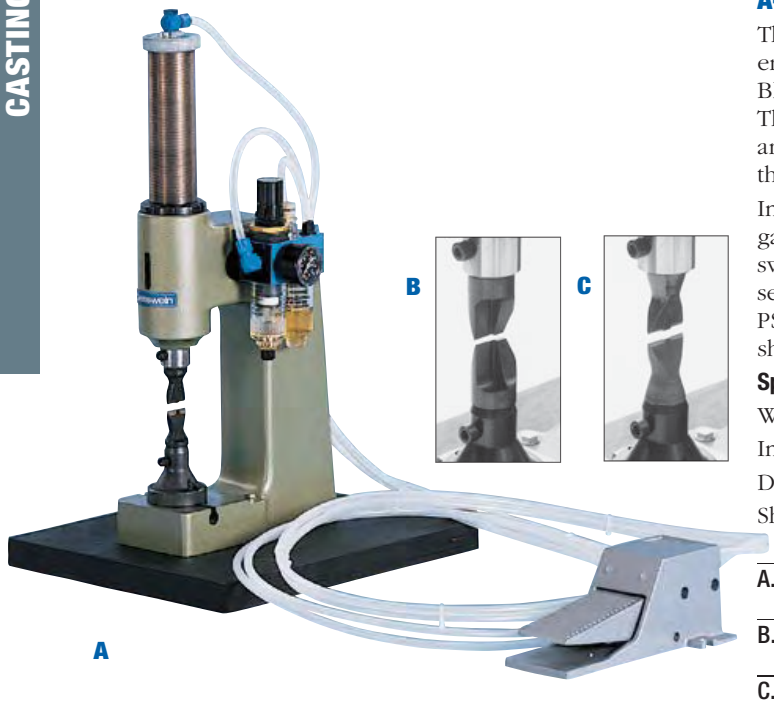

A-C Pneumatic/Hydraulic Production Sprue Cutter

This precision-made machine provides guillotine cutting action powered by tremendous pneumatic/hydraulic force of more than 8,500 PSI. Blades are made of high-quality tool steel and can be resharpened. Their unique design prevents damage to cutting edges. Once blades are worn, rotate them and utilize the unworn portion, then resharpen them. Each side of blade is 9mm wide.

Includes bevel-edge cutters with 6mm cutting capacity, air pressure gauge, filter/lubricator, mounting base and connection hose for foot switch. Optional semi-flush cutters with 4mm cutting capacity sold separately (see below). Requires air compressor that produces 75-100 PSI (⅜" connection hose for compressor not included). Safety goggles should be worn during use. Made in Germany.

Specifications:

Working Pressure:	Approx. 8,500 PSI
Input Pressure:	72.5-101.5 PSI
Dimensions:	14"L x 12"W x 21"H
Ship. Wt.:	48 lbs.

	Description	Item#	Each
A.	Production Sprue Cutter	**260-3130**	**$4,950.00**
B.	Optional Semi-Flush Cutters	**260-3132**	**197.00**
C.	Replacement Bevel-Edge Cutters	260-3133	180.00
	Oil Refill, 4 oz.	260-3135	17.99

D. Niles Pneumatic Sprue Cutters

Heavy-duty air-powered tools for cutting castings from sprues. Feature tapered blades that make it easy to get in between closely spaced castings. Eliminate hand and arm fatigue and increase production. Can be operated by hand when not on stand. Each includes one pair of blades, stand, foot pedal, air hose and hose connectors. Air compressor requirements: 60-85 PSI, 0.8 CFM. Made in Japan.

Specifications:	**Model 25**	**Model 35**
Blades:	P6, High-Speed Steel	Z8P, Carbide
Cutting Capacity at Midsection of Blade:	3mm	4mm
Size without Blade:	1¾" dia. x 9½"L	2⅛" dia. x 11½"L
Length of Cutting Edge:	½"	1⅛"
Ship. Wt.:	5 lbs., 4 oz.	6 lbs., 4 oz.

	Description	Item#	Each
D.	Model 25 with P6 Blades	**260-3110**	**$595.00**
	Model 35 with Z8P Blades	**260-3115**	**799.00**
	Replacement Stand	260-3118	120.00
	Replacement Foot Pedal	260-3119	177.00
	Replacement Hose with Connectors	260-3114	36.60

	Blades	For	Item#	Each
	Z61, H.S.S. pointed	Model 25	**260-3112**	**$183.00**
	S7P, Tool Steel pointed	Model 35	**260-3111**	**99.00**
	Replacement P6, H.S.S. blunt	Model 25	260-3116	74.00
	Replacement Z8P, Carbide blunt	Model 35	260-3117	195.00

E. Heavy-Duty Sprue Cutter

A space-saving manual cutter ideal for cutting heavy sprues or the center rod of a tree sprue system. Should be bolted to a bench.

Specifications:

Cutting Capacity:	⅜" (10mm) thick nonferrous sprues
Dimensions:	6"L x 3"W base with 21" long handle
Ship. Wt.:	10 lbs.

	Description	Item#	Each
E.	Heavy-Duty Sprue Cutter	**260-3120**	**$415.00**
	Replacement Blade	260-3122	125.00

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A. Bergeon Heavy-Duty Cutter – Cuts sprues up to 3mm

Top-quality cutters with special linkage design that multiples hand pressure many times to provide full, clean cuts. Helps reduce hand fatigue from constant cutting. Features hardened steel jaws with 7/8" (22mm) long cutting edges, extra-long handles for additional leverage and locking system for protection of cutting edges. Pointed ends allow easy access to tight areas. Made in Switzerland.

Description	Length	Item#	Each
Side Cutter	10"	**181-4075**	**$146.00**

A

B. Power Sprue Cutter – Cuts sprues up to 3mm

Cuts sprues and soft wire up to 3mm and hard wire up to 1mm. Makes a semi-flush cut. Features compound joint construction for reduced cutting effort, hardened chrome vanadium steel cutting head and steel handles with plastic nonslip grips. Measures 9½" long with 11/16" (18mm) long jaws. Made in Italy.

Description	Item#	Each
Power Sprue Cutter	**181-4061**	**$120.00**

B

C. Compound Cutter – Cuts sprues up to 3mm

This heavy-duty tool cuts sprues up to 3mm thick. Features compound joint for cutting with minimal effort and insulated plastic grips. Measures 7¼" long with 7/16" long jaws. Made in Germany.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Compound Cutter	**181-4060**	**$41.95**	**$39.85**	**$37.76**

C

See our Pliers, Cutters and Shears section pages 368-385 for additional Sprue Cutters.

D. Power Max Cutters – Cuts sprues up to 2.3mm

Feature leverage-enhancing design and induction-hardened, high-grade steel jaws for extra-close cutting. Have ergonomically shaped handles for preventing fatigue and injuries. Measures 6½" long.

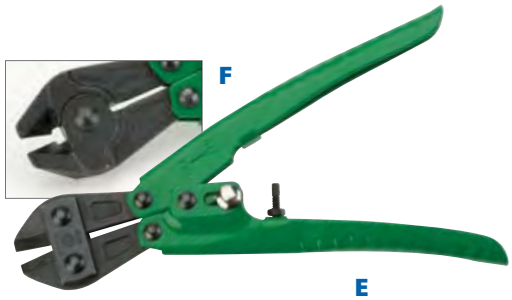
		EACH Prices		
Description	Item#	1-2	3-9	10+
Flush Cutter	**181-4066**	**$36.95**	**$35.10**	**$33.26**

D

E, F 3-Peaks Sprue Cutters – Cuts sprues up to 4mm

These compound sprue cutters feature 60–65 HRC hardened alloy steel construction with 15mm long jaws and comfortable handles. Both cut up to 4mm copper or 1.5mm steel. Side cutter is angled for better access to tight areas. Measure approx. 8½" long. Made in Japan.

	Description	Item#	Each
E.	Cutter	**181-4081**	**$24.75**
F.	Side Cutter	**181-4082**	**31.25**



F

E

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Ultrasonic Cleaners

Ultrasonic cleaning technology utilizes high frequency sound waves to agitate a water-based cleaning solution that in turn acts on contaminants adhering to metals, plastics, glass and ceramics. Ultrasonic cleaners remove dust, dirt, oil, pigments, grease, polishing compounds, mold release agents, and biologicals like blood, fingerprints and saliva. Gesswein Cleaning Solutions are formulated for light, medium or heavy-duty cleaning and all reduce surface tension in order to clean more effectively and enhance cavitation (formation of microscopic cleaning bubbles).

A

A. Sonic Wave III – Personal Ultrasonic Cleaner – ¾ qt.

Compact enough for the home use. This professional grade digital Ultrasonic Cleaner has a full-wave PCB and high power transducers giving a large effective cleaning area – far superior to similar units. Stainless Steel tank with high impact plastic housing and see-through lid. Digital timer with 5 setting choices and auto shut-off. Quickly cleans Jewelry, CDs and DVDs, etc. Makes a great gift or resale item. Supplied with a free 2 oz. sample of concentrated cleaning solution.

Specifications:

Capacity:	¾ qts. (850ml, fill level = 700ml)
Electrical:	100-120V 60Hz
Dimensions:	Overall 7¼"W x 8"D x 5¾"H
	Tank 5"W x 5¾"D x 1¾"H

Description	Item#	EACH Prices 1-2	3-7	8+
Sonic Wave III	**851-4903**	**$49.95**	**$39.96**	**$34.97**

B

B. Digital Ultrasonic Cleaner – 2½ qts.

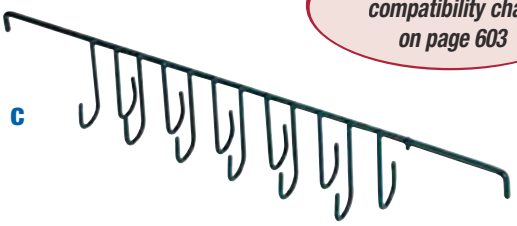
A moderately sized ultrasonic cleaner for removing dirt and compounds from jewelry. Provides 42kHz of cleaning power. Features integral heater with radiator fan; quiet solid-state circuitry; digital controls with 90, 180, 280, 380 and 480-second cleaning cycles; isolated electronics for protection against moisture; heavy-duty wipe-clean plastic housing; durable stainless steel tank; and auto-shutoff for safety. Includes lid with convenient viewing window, jewelry cleaning basket and free sample of ultrasonic cleaning solution.

Specifications:

Capacity:	2½ qts.
Electrical:	115V, 160W 50/60Hz
Dimensions:	Overall 13⅜"W x 10"D x 8⅞"H
	Tank 10⅜"W x 6½"D x 3⅛"H
Weight:	5½ lbs.
	CE, GS, NRTL and PSE approved

Description	Item#	Each
Digital Ultrasonic	**851-4906**	**$119.95**

Ring Rack/Basket compatibility chart on page 603



C

C. Ultrasonic Ring Rack

Durable plastic-coated wire ring rack with hanging hooks that measure approx. 2" long.

Description	Hooks	Overall Length	W x D	Item#	Each
Ultrasonic Ring Rack	12	12"	5½" x 2"	**851-4105**	**$3.95**

Ultrasonic Cleaner Brand Comparison

Brand	BestBuilt	L&R Quantrex	Gesswein Sweep	Elmasonic SX30H	Digital
Capacity	0.48, 0.87, 1.58, 2.64 or 5.8 gals.	0.50, 0.84, 1.50, 3.25 or 6.50 gals.	0.84 gal.	3 qts.	2½ qts.
Frequency	40kHz	43kHz	42kHz	37kHz	42kHz
Workload	Medium to Heavy	Medium to Heavy	Medium to Heavy	Medium to Heavy	Light to Medium
Control	Analog	Analog	Analog	Digital	Digital
Timer	0–30 min.	0–60 min.	0–30 min.	0–30 min.	5 Different Cycles
Timer Bypass	No	No	Yes	Yes	No
Heater	Yes	Yes	Yes	Yes	Yes
Housing	Powder Coated Stainless Steel	Vinyl-Clad Steel	Vinyl-Coated Steel	Stainless Steel	ABS Plastic
Tank	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Lid	Yes	Yes	Yes	Yes	Yes
Drain	Yes (except 2, 3.5 & 6 qt.)	Yes (except 90)	Yes	No	No
Country of Origin	South Korea	USA	USA	Germany	China

A. Elmasonic Ultrasonic Cleaner – 1 qt.

The Elmasonic cleaner provides 35 kHz of quiet cleaning power in a sleek, compact design. Fits easily in the smallest spaces. Features powerful sandwich transducer for removing even the heaviest contaminants, 120-minute digital countdown timer, overheating protection, stainless steel tank, removable cover with groove for collecting water and PC-ABS housing. Cleans anywhere liquid can permeate. Perfect for necklaces, watchbands, bracelets, rings, earrings and more. Includes removable plastic basket and ultrasonic cleaning solution. Backed by a two-year manufacturer's warranty. Made in Germany.

Specifications:
Capacity: 1 quart
Electrical: 90–250V, 40W, 50/60 Hz
Dimensions: Overall 9.3"W x 5.7"D x 6.2"H
Tank 7.6"W x 3.3"D x 2.4"H
Weight: 5½ lbs.

Description	Item#	Each
Elmasonic	**851-4201**	**$275.00**
Replacement Plastic Basket	851-5106	16.25

B, C Elma SX30H Ultrasonic Cleaner – 3 qts.

Fully loaded with more features than any other unit!

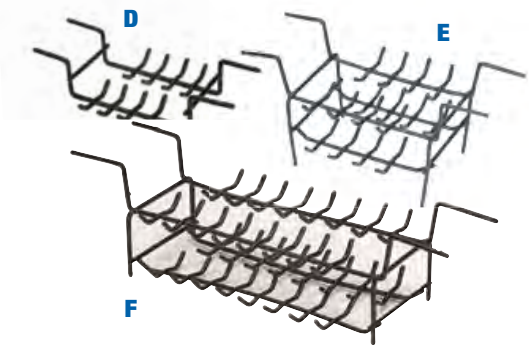
With its microprocessor control and user-friendly design, this professional unit runs 30% more efficiently than Elma's economy unit. Features 37kHz high-performance transducers, built-in heater with LED display that shows both set and actual temperatures from 30–80°C (88–175°F), 30-minute electronic timer with LED display of set and remaining cleaning time, continuous-on option and an automatic de-gas function for a new bath in just 10 minutes. Offers choice of automatic sweep function for full tank cleaning or nonsweep function for concentrated cleaning. Made to withstand years of constant use with stainless steel housing and tank, dry-run protection for heater and splash-proof membrane keypad. Includes heavy-duty plastic lid that helps reduce noise and also doubles as a drip tray for ring racks and mesh baskets, as well as a free sample of ultrasonic cleaning solution. Optional cleaning kit also available (see below). Has no drain; just lift and pour to remove water. Backed by a two-year manufacturer's warranty. CE approved. Made in Germany.

Specifications:
Capacity: 3 quarts
Electrical: 115V, 50/60Hz.
Dimensions: Overall 12"W x 7"D x 8¾"H
Tank 9½"W x 5⅜"D x 4"H
Weight: 7¼ lbs.

	Description	Item#	Each
B.	SX30H	**851-4203**	**$499.00**
C.	Optional SX30H Cleaning Kit (plastic basket, 16-hook ring rack, 1 qt. ultrasonic cleaning solution)	**851-4190**	**48.00**
	Optional Plastic Basket only	**851-5107**	**25.90**

D-F Econo Ultrasonic Ring Racks

Affordable racks that feature heavy PVC coating and double-sided arms. Available in three sizes. See Ring Rack/Basket compatibility chart on page 603.



	Description	Hooks	Overall Width	W x D x H	Item#	Each
D.	Sm. Hanging Rack	16	8"	6" x 4½" x 1¼"	**851-4107**	**$3.95**
E.	Med. Standing Rack	32	8"	5¼" x 4½" x 4"	**851-4108**	**5.95**
F.	Lrg. Standing Rack	64	12"	9⅛" x 4½" x 3½"	**851-4106**	**5.95**

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BEST BUILT
Jewelry Equipment

BESTBUILT Ultrasonic Cleaners

BestBuilt Ultrasonic Cleaners utilize industrial transducers to create powerful 40KHz ultrasonic wavelengths—short enough to clean the finest details of your jewelry and powerful enough to remove caked-on dirt as well as rouge and other compounds. All BestBuilt models have a 30-minute timer and cover. The 4 largest units feature variable temperature control. All ultrasonics come with a 1 year warranty; 2 year transducer warranty and a sample of Ultrasonic Cleaning Solution. Made in South Korea.

2 Quart

3.5 Quart

Model	2 Quart	3.5 Quart	6 Quart	10 Quart	22 Quart
Capacity	1.8 liters 0.48 gallon	3.3 liters 0.87 gallon	6 liters 1.58 gallons	10 liters 2.64 gallons	22 liters 5.8 gallons
Power	60 watts	100 watts	150 watts	200 watts	300 watts
Frequency	40KHz	40KHz	40KHz	40KHz	40KHz
Variable Temperature Control	NO	YES	YES	YES	YES
Tank Dimensions	5.9"L x 5.3"W x 3.9"D	9.4"L x 5.5"W x 3.9"D	11.4"L x 5.9"W x 5.9"D	11.4"L x 9.4"W x 5.9"D	19.5" W x 11.75" L x 5.9" H
Drain	NO	NO	NO	YES	YES
Overall Dimensions	7"L x 6.4"W x 8.3"H	11.7"L x 6.4"W x 9.8"H	14.1"L x 6.9"W x 11.9"H	15.5"L x 10.4"W x 14.5"H	23.5"L x 13.75"W x 12.35"H
Electrical	110V	110V	110V	110V	110V
Ship Wt.	8 lbs.	8 lbs.	13 lbs.	17 lbs.	31 lbs.
Item#	**851-1000**	**851-1002**	**851-1004**	**851-1006**	**851-1008**
Price	**$299.00**	**399.00**	**699.00**	**999.00**	**1,599.00**

6 Quart

10 Quart

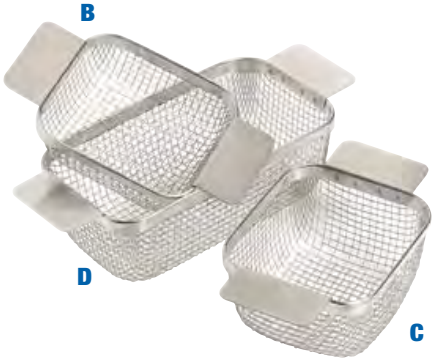
22 Quart

A. Deluxe Ultrasonic Ring Racks

Easily assembled modular ring racks that can be easily customized to meet your needs. Steel rack with rubber feet rests on top of your ultrasonic, suspending hooks inside tank. Long-lasting solid plastic hooks adjust to hold both large and small items (each hook holds two rings).

	Description	Hooks	Length	Item#	Each
	8 Hook Rack	8 (holds 16 rings)	11¾"	**851-2050**	**$6.95**
A.	12 Hook Rack	12 (holds 24 rings)	14¾"	**851-2052**	**8.95**
	Replacement Hook	(holds 2 rings)	–	**851-2058**	**0.95**

Ring Rack/Basket compatibility chart on page 603



B-D Stainless Steel Mesh Baskets

High-quality stainless steel mesh baskets with convenient handles that let you move jewelry pieces into and out of your ultrasonic cleaner with ease. Designed to fit many brands.

	Approx. Overall Width	W x D x H	Item#	Each
B.	8"	5¼" x 4¾" x 2"	**851-5099**	**$35.20**
C.	8"	5⅜" x 5" x 3¼"	**851-5101**	**41.85**
D.	11½"	9" x 5" x 3⅜"	**851-5121**	**45.50**
	13½"	11" x 5⅜" x 5¼"	**851-5126**	**77.45**
	13½"	11⅛" x 8¾" x 4⅞"	**851-5131**	**85.00**

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L&R Quantrex® Ultrasonic Cleaners

Made by L&R, a leader in ultrasonic cleaning technology, Quantrex ultrasonics feature durable vinyl-clad steel housing, stainless steel tank and lid (#140 has plastic lid), 60-minute timer and a drain with hose & clip (except model 90, which has timer but no drain), EMI (electromagnetic interference) filter for worry-free operation around other electronic equipment, premium system components and contemporary design. Include integral heating elements at a preset temperature of approx. 160°F. Provide quiet yet powerful 43kHz cleaning action. Includes free sample of Ultrasonic Cleaning Solution. Backed by a 2½-year manufacturer's warranty. 220V also available. Made in USA.

Model	90	140	210	360	650
Capacity (qts.)	2	3.4	6	14.4	26
Power	110 watts	150 watts	335 watts	440 watts	815 watts
Frequency	43KHz	43KHz	43KHz	43KHz	43KHz
Tank Dimensions (W x D x H)	5⅞" x 5⅜" x 4"	9⅜" x 5⅜" x 4"	11¾" x 6" x 6"	11½" x 9¼" x 8"	19¾" x 11¾" x 6½"
Drain, Hose & Clip	NO	YES	YES	YES	YES
Overall Dimensions (W x D x H)	7" x 6⅜" x 8¾"	10¼" x 6½" x 8¼"	12¾" x 7" x 11"	12¾" x 10½" x 14"	21¾" x 14" x 12½"
Electrical	110V (220V available)	110V (220V available)	110V (220V available)	110V (220V available)	110V (220V available)
Ship Wt.	7 lbs.	9 lbs.	13 lbs.	22 lbs.	34 lbs.
Manufacturer's Warranty	2.5 years	2.5 years	2.5 years	2.5 years	2.5 years
Item#	**851-5070**	**851-5072**	**851-5074**	**851-5094**	**851-5077**
Price	**$315.00**	**448.00**	**860.00**	**1,425.00**	**2,200.00**

#90 2 Quart

#140 3.4 Quart

#210 6 Quart

#360 14.4 Quart

#650 26 Quart

A. Gesswein® Sweep Ultrasonic Cleaner – 3⅜ qts.

Instead of having fixed-kilohertz output like other ultrasonics, the sweep ultrasonic cycles regularly through a kilohertz range, generating tightly packed layers of ultrasonic waves throughout its tank for more powerful, faster cleaning action. Fully and evenly distributes ultrasonic waves regardless of cleaning load and solution level, yielding cavitation that reaches into all corners of the tank, leaving no weak zones or hot spots. Engineered for heavy-duty, full-time use. Features stainless steel tank and plastic lid, timer (set for 1–30 minutes or hold), heater, EMI (electromagnetic interference) filter, on/off switch, drain, hose and a sample of Ultrasonic Cleaning Solution. Electrical: 115V, 50/60Hz. Made in USA. Backed by a 2½-year manufacturer's warranty.

115V Model	Capacity (qts.)	Sonic Power (W)	Dimensions (W x D x H) Overall	Tank	Item#	Each
84	3⅜	150	10⅜" x 6⅜" x 8"	9⅜" x 5⅜" x 4"	**851-5046**	**$495.00**

A

B. Universal Stainless Steel Mesh Basket

This fine mesh basket hangs on the side with ½" wide hooks.

Description	W x D x H	Item#	Each
Universal Basket	5" x 4" x 1½"	**851-5105**	**$14.95**

B

C. Extra-Fine Stainless Steel Mesh Basket

Features stainless steel frame with extra-fine stainless steel mesh that prevents even the smallest items from dropping to the bottom of your ultrasonic. Has two extra-long handles for fitting on many 2, 3 and 6-quart units.

Description	Approx. Overall Width	W x D x H	Item#	Each
Extra-Fine Basket	8½"	4½" x 3" x 1½"	**851-5097**	**$14.95**

C

D. Baskets

Baskets prevent parts from touching bottoms of tanks. Ends fit over edges of tanks. Rubber feet on lips eliminate vibration. Both have screened bottoms. Stainless steel.

	Description	Approx. Overall Width	W x D x H	Item#	Each
	Basket #50	7¼"	5" x 4½" x 2¾"	**851-5100**	**$78.00**
D.	Basket #270	13½"	10⅛" x 8½" x 4¾"	**851-5130**	**129.00**

D

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A

B

C

See Turbo Units at www.gesswein.com

D E F G

H I

A-F Speed Brite Ionic Cleaners

Speed Brite units use a revolutionary ionic cleaning process to clean precious metal and stones in less than a minute. Safe for emeralds, opals, pearls, turquoise and other soft stones.

Three units available: Large outside dimensions 10¾" x 6¾", Standard 200SB outside dimensions 5¾" x 5¾" and Mini Speed Brite outside dimensions 4" x 5". Large (Tank dimensions 8½" x 4¾") has 36 oz. capacity. Features push-button to agitate solution for faster cleaning. Standard 200SB has 12 oz. capacity. Cleans gold and silver in seconds and also softens dirt behind stones. Mini Speed Brite has 6 oz. capacity. Fits easily on crowded countertops and can be resold to your customers for home use. Each unit comes with a generous supply of Gem Sparkle Concentrate, an environmentally safe cleaning solution formulated to gently remove dirt, grime and tarnish.

	Description	Electrical	Item#	EACH Prices 1-5	6+
A.	Large 309SB	120V	**851-4933**	**$132.50**	**-**
B.	Standard 200SB	120V	**851-4925**	**94.50**	**$85.05**
C.	Mini Speed Brite 100SB (9V battery included or power adapter; see below)	9V/120V	851-4920	59.50	53.55
	Power Adapter for Mini	120V	**851-4924**	**12.00**	**10.80**
	Description	**Dia. x H**	**Item#**		Each
	Replacement Stainless Steel Mesh Basket for 200SB	4" x 2"	851-4934		25.95
	Description		**Item#**		Each
	Gem-Sparkle Concentrate				
D.	Liquid, 16 oz.		**851-4930**		**$9.95**
E.	Liquid, 32 oz.		**851-4931**		**15.50**
F.	Liquid, 1 gallon		**851-4932**		**27.50**

G. Gem-Sparkle Dry Powder

Dry powder crystals with luster enhancers, Pour contents of both vials into dispensing bottle. Add water and mix.

	Description	Item#	Each
	Gem-Sparkle Powder		
G.	Without bottle, 8 oz.	**851-4938**	**$10.50**
	Without bottle, 32 oz.	**851-4940**	**14.50**
	With Bottle, 8 oz.	**851-4939**	**12.50**
	With Bottle, 32 oz.	**851-4941**	**16.50**

H, I 600ml Beaker and Flexible Cover

Safely holds ammonia, acids and other strong chemicals that can ruin your ultrasonic tank.

	Description	Item#	Each
H.	Flexible Cover	**210-2952**	**$5.25**
I.	Beaker	**210-2750**	**8.85**

J

J. Screw-Type Parts Basket

Tiny wire mesh basket for fully securing the smallest parts during ultrasonic cleaning. Prevents costly loss.

Description	Dia. x L	Item#	Each
Screw-Type Basket	5/8" x 7/8"	**851-4115**	**$10.30**

K

K. UltraBasket™

This unique combo basket features 16 hooks and fine plastic mesh to keep both large and small items from falling to the bottom of your ultrasonic. Includes plastic legs that can be easily trimmed to the ideal height and convenient handle for easy removal. Designed so most ultrasonics can accommodate two. Color may vary.

Description	Dia. x H	Item#	Each
UltraBasket	4 7/8" x 3 7/8"	**851-5127**	**$25.75**

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Ultrasonic Cleaning Solutions

Gesswein Cleaning Solutions are formulated for light, medium or heavy-duty cleaning and all reduce surface tension in order to clean more effectively and enhance cavitation (formation of microscopic cleaning bubbles).

Ultrasonic cleaning technology utilizes high frequency sound waves to agitate the cleaning solution that in turn acts on contaminants adhering to metals, plastics, glass and ceramics. Ultrasonic cleaners remove dust, dirt, oil, pigments, grease, polishing compounds, mold release agents and biological residue such as blood, fingerprints and saliva.

A-D Gesswein® Ultrasonic Cleaning Solution

Improves performance of your ultrasonic cleaner, reducing cleaning time. Cleans without using harsh chemicals that can damage your ultrasonic tank, such as ammonia. In fact, it inhibits rust, so it actually helps protect your parts and tank. Contains no phosphates, which thicken with use and shorten solution life. Gives you a long-lasting supply for your money at 40:1 concentration. Won't irritate eyes or nose. Complies with water treatment regulations for direct disposal into sewage. Meets OSHA standards.

	Description	Yield at 40:1	Item#	Each
A.	1 pt. Bottle	5 gals.	851-5303	$17.50
B.	1 qt. Bottle	10 gals.	851-5300	27.00
C.	1 gal. Bottle	40 gals.	851-5308	90.00
D.	5 gal. Pail	200 gals.	851-5305	340.00
	51 gal. Drum	2040 gals.	851-5310	2,630.00

E, F Supra Galvex Ultrasonic Cleaning Solution

The most effective jewelry cleaner you'll ever use!

Supra Galvex Swiss Formula allows fast, thorough cleaning of precious metals, brass, stainless steel, titanium, zinc and more. This nonoxidizing polishing compound remover is free of complexing agents (EDTA), silicates, phosphates and alkaline hydroxides. Imported from Switzerland. Concentrated: use 50:1 in tap water, 100:1 in distilled or deionized water.

	Description	Yield at 100:1	Item#	Each
	1 pt. Bottle	12.5 gals.	851-5301	$19.50
E.	1 qt. Bottle	25 gals.	851-5302	29.20
	1 gal. Bottle	100 gals.	851-5307	110.00
F.	5 gal. Pail	500 gals.	851-5304	440.00

G. BCR Cleaner – Original buffing compound remover

A fast-acting alkaline cleaning solution developed especially for the removal of buffing compounds such as tripoli, white diamond and rouge. Works effectively on gold, platinum, silver, steel, stainless steel, zinc, magnesium, brass, copper and aluminum. Exceptional risibility eliminates hand wiping and streaking.

	Description	Item#	Each
G.	1 gal. Bottle	812-0650	$36.95
	5 gal. Pail	812-0655	180.00
	19 gal. Drum	812-0656	445.00
	51 gal. Drum FOB CT	812-0659	1,250.00
	51 gal. Drum FOB LIC, NY	812-0660	1,195.00

H. BCR Plus – Extra-strong buffing compound remover

Ideal for your toughest cleaning jobs. Works effectively on gold, platinum, silver, steel, stainless steel, zinc, magnesium, brass, copper and aluminum. Concentrated: use 3–20% by volume depending on extent of compound buildup. Exceptional risibility eliminates hand wiping, streaking and discoloration.

	Description	Item#	Each
H.	1 gal. Bottle	812-0670	$36.85
	5 gal. Pail	812-0675	177.50
	15 gal. Drum	812-0680	420.00
	51 gal. Drum FOB CT	812-0685	1,155.00
	51 gal. Drum FOB PA	812-0686	1,100.00

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A-C Gesswein® Brite Ultrasonic Cleaning Solutions

Pick the right solution for every cleaning application.

Three concentrated solutions formulated for specific jewelry applications. All three work well for ultrasonic cleaning, hand brushing and immersion or soak cleaning. Contain no chelating agents. Can be used from room temperature up to 160°F. Use in concentration of 2–20% for best results. Available in 1-quart bottles, 5-gallon pails and 55-gallon drums.

Brite (blue) is a moderately alkaline solution best suited for cleaning plain or stone-set rings (excluding those with delicate stones). Ideal for gold, silver and platinum as well as copper and brass. Perfect for everyday use in the retail store or repair shop.

Supra Brite (green) is a neutral pH solution containing special additives for cleaning delicate stones without harming them. Designed primarily for immersion cleaning or hand cleaning with a soft brush, Supra Brite is safe for opals and other fragile stones that cannot withstand ultrasonic cleaning or harsh chemicals. Supra Brite can also be used in an ultrasonic for light cleaning jobs on precious metals and aluminum.

Ultra Brite (pink) is a heavy-duty cleaning solution designed to quickly remove the most stubborn polishing compound residue. We think Ultra Brite is the strongest cleaner on the market, and it's free of ammonia and other harmful chemicals that could hurt your fine jewelry. Ultra Brite is ideal for all precious metals and stainless steel as well as diamonds and other stones that can withstand normal ultrasonic cleaning. Ultra Brite is considered hazardous to ship.

Description	Item# (1qt. Bottle)		Item# (5 gal. Pail)		Item# (55 gal. Drum)	
A. Brite	**851-5311**	**$16.25**	**851-5312**	**$199.95**	**851-5313**	**$1,527.00**
B. Supra Brite	**851-5314**	**17.50**	**851-5315**	**199.30**	**851-5316**	**1,658.25**
C. Ultra Brite Ⓗ	**851-5317**	**18.25**	Ⓢ **851-5318**	**229.00**	Ⓢ **851-5319**	**2,199.00**

Ⓗ *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

Ⓢ *UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.*

D

D. Magic Green – Powdered Ultrasonic Soap Concentrate

Magic Green is more economical and occupies much less space than liquid concentrates. Saves on shipping costs, too. And since it won't evaporate, it even keeps longer. Just mix 1 gal. of water with 1 oz. of powder to formulate a fast-acting solution. Perfect for gold and silver because it removes rouge and tripoli instantly. Ammonia-free and biodegradable.

Description	Mixing Ratio	Item#	EACH Prices 1-5	6+
D. 32 oz. Bottle	1 oz./gal.	**812-0701**	**$17.95**	**$16.16**

E

E. Drum Pump – For 5, 15, 30 and 51-gallon drums

A reusable plastic pump that makes it easy to dispense ultrasonic cleaning solution from any standard-size drum. Saves you from having to lift or tilt heavy, awkward containers. Lets you take advantage of bulk pricing. Features raised spout that dispenses liquid at a convenient height. Includes adapters and extension tubing to fit standard 5, 15, 30 and 51-gallon drums. Adjusts to dispense exact quantities of 4, 8, 12 or 16 av. oz.

Description	Item#	Each
Drum Pump	**852-0942**	**$189.50**

F-I Graduated Cylinder, Investment Scoop and Measuring Beakers

Graduated cylinder is made of polypropylene. Capacity: 250ml with 2ml graduations. Investment scoop has high sides to prevent spilling and waste. Holds about 3 lbs. standard investment. Measures 8½"L x 4¾"W x 3"H. Made of plastic. Measuring beakers have handles for easy pouring. Made of polypropylene. Available in two sizes: 1,000ml with 1ml graduations and 5,000ml with 100ml graduations.

Description	Capacity	Item#	Each
F. Graduated Cylinder	250ml (250cc)	**265-1905**	**$19.65**
G. Investment Scoop	Roughly 3 lbs.	**260-1750**	**8.10**
H. Small Measuring Beaker	1,000ml (1,000cc)	**210-2425**	**14.80**
I. Large Measuring Beaker	5,000ml (5,000cc)	**210-2426**	**58.95**

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A. All-in-One Jewelry Cleaning Kit

Everything you need for professional jewelry cleaning at home in a minimal amount of space.

Components:

- GemOro Brilliant Black Diamond Steam Cleaner (853-0094)
- Sonic Wave III Ultrasonic Cleaner (851-4903)
- Light Blue 10" x 10" Royal Gem Cloth (820-0078)
- 2 oz. sample bottle of Gesswein Ultrasonic Solution

Description	Electrical	Item#	Each
All-in-One	110V	**853-0087**	**$99.00**

A

B. Deluxe Professional Cleaning Kit

The Deluxe Professional Cleaning Kit is ideal for the home office or the front end of a retail store.

Components:

- Jewel Jet 2 Steamer (853-0078)
- 2.5 qt. Heated Ultrasonic (851-4906)
- Pint of Gesswein Ultrasonic Solution (851-5303)
- High-quality lint-free gem cloth (820-0415)

Description	Electrical	Item#	Each
Deluxe Professional	110V	**853-0088**	**$179.95**

B

C. GemOro UltraSpa – Combo Ultrasonic & Steamer in one!

GemOro's UltraSpa is the only combination jewelry steam/ultrasonic cleaner designed for personal use. Designed specifically for use in the home, yet powerful enough for the jeweler, this cleaner makes a perfect resale item. 1-pint tank capacity. 50psi of pressurized steam with tap water. 42khz ultrasonic scrubbing action. Comes equipped with steam residue mat, protective coated tweezers, measuring fill cup and mesh basket for small items. 1-year limited replacement manufacturer's warranty. ETL listed.

			EACH Prices		
Description	Electrical	Item#	1-2	3-11	12+
UltraSpa	110V	**853-0079**	**$199.00**	**$159.20**	**$133.33**

C

D. Jewel-Jet 2

The Jewel-Jet jewelry steam cleaner is the first professional jewelry cleaner designed for home use and uses only 8 oz. of tap water (no chemicals) to produce professional cleaning results. Measures 9½" High x 7¼" Wide x 9½" Deep. 2-year manufacturer's warranty.

Features:

- Powerful 45 PSI
- Stainless steel boiler
- Pressurized safety cap
- Auto shut-off
- Increased burst steam
- Pressure and heat sensors
- LED under-lighting
- LED indicator light

			EACH Prices		
Description	Electrical	Item#	1-5	6-11	12+
Jewel-Jet 2	120V	**853-0078**	**$89.95**	**$83.65**	**$78.26**

D

E. GemOro Brilliant Black Diamond Personal Steam Cleaner

The best just got better!

New larger capacity steamer with even greater steam pressure! The ultimate personal jewelry steam cleaner with its increased steam pressure will thoroughly amaze you by effortlessly blasting away filth from the dirtiest of jewelry in just seconds. Professionally cleans diamonds, gold, silver and platinum jewelry. Powerful steam cleaner safely generates a robust 50PSI of pressurized steam using regular tap water. Advanced LED indicator lights show when it is ready to steam. Bright blue LED light illuminates jewelry. Features an unrestricted cleaning zone, removable cleaning / drying basket and convenient on / off power switch and easy-lift handles for moving. Cabinet made of durable, long-life ABS. Includes jewelry holding tweezers, basket, steam residue mat and water funnel with measuring fill cup. Built for safety – ETL Listed. 2 Year limited replacement warranty.

Description	Electrical	Item#	Each
Black Diamond Steamer	120V	**853-0095**	**$99.00**
Slate/Gray Diamond Steamer	120V	**853-0094**	**$99.00**

E

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A

A. Reliable i500 Steamer – Stainless Steel Tank & Enclosure

A steam cleaner whose beauty is a lot more than skin deep. Stainless steel is the #1 choice for pressurized steam cleaners around the world. The elegant design and solid construction of the i500A utilizes this unsurpassed material both inside and out. Unlike cast iron models, the i500 will not rust.

Produces 50 PSI of steam pressure and reaches temperatures up to 221° F at the tip. It's ideally suited for use in jewelry stores and workrooms for cleaning away left over wax, plaster waste and other debris, and for polishing the final product.

4 Safety Systems

The i500A has 4 safety systems including a pressure switch, probe safety thermostat on the heating element, safety cap with safety valve, and a low water indicator.

A pressure gauge is standard on the i500A. It gives you a constant, visual indicator of the internal boiler pressure.

One year manufacturer's warranty on unit, 3 years on tank. Made in Italy. cETLus certified.

Features:

- Low water light indicator
- Fill with regular tap water
- Stainless steel tank and outer casing
- 12-gauge heavy-duty wiring
- Carrying handle for portability
- 10-15 minute heat up time
- Water level stick
- Up to 4 hours of continuous steam
- Rated for up to 8 hours of use per day

Specifications:

Capacity: 0.66 gallon (2.5 liters)
Heating Element: 1000 Watts
Electrical: 120V, 8 Amps
Operating Pressure: 50 PSI (3.5 bar)
Dimensions: 9.25" x 9.75" x 19.5"
Net weight: 13.25 lbs. (6 kg)
Shipping weight: 15.5 lbs. (7 kg)

Description	Electrical	Item#	Each
Reliable i500	120V	**853-0105**	**$599.00**

B

B. Steam Dragon™ Steamer – Safe for malls, stores and offices

This space-saving unit produces steam on-demand rather than holding it under pressure like boiler-type steamers, so it eliminates the risk of explosion. Performs comparably to much larger machines yet requires no boiler permits, so it is welcome in public locations. Simple to operate: just insert the supplied water feed hose into a bottle of water, step on the foot pedal to feed water into your unit, and watch as water instantly flashes into steam and exits the nozzle. Flow of steam stops when all the water has boiled to steam. Features foot switch, durable 20-gauge stainless steel construction and solid-state controls. UL Listed. ***Requires distilled water.***

Specifications:

Electrical: 115V, 11A, 1300W, 60Hz, Max. Pressure: 90–125PSI,
Dimensions: 9"W x 12"D x 10"H, Ship. Wt.: 26 lbs.

Description	Electrical	Item#	Each
Silver Dragon	15V	**853-0042**	**$725.00**

C

D

E

C-E Small Parts Baskets

Stainless steel wire mesh baskets with plastic or metal handles. Perfect for holding small parts in your ultrasonic or steamer. Available in three sizes.

	Description	Handles	Dia.	Item#	Each
C.	Small	Plastic	1½"	**851-4110**	**$3.45**
D.	Medium	Metal	2"	**853-7099**	**3.20**
E.	Large	Plastic	2½"	**851-4111**	**3.95**

F

F. Steamostat

The perfect holder for steam cleaning. Features stainless steel box-joint construction with nonscratching PVC tips and lockable handles. Measures 7¼" long.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Steamostat	**181-5010**	**$6.25**	**$5.94**	**$5.31**

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A. Deluxe Junior Steamer – For moderate production

This compact tabletop unit boasts up to 40% greater effective capacity than similar units, so it provides more steam before needing a water refill. Features a high-limit pressure control switch that regulates heat and pressure automatically. Made of the toughest heavy-duty materials to withstand constant use. Easy to install with no plumbing required. Includes fast-response heating element, foot-controlled solenoid switch, safety relief valve, low-water cutoff with reset switch, steam pressure gauge, lockable blowdown drain valve and water fill funnel and valve. Complies with ASME safety code. UL and CSA approved. Uses ordinary tap water.

Specifications:

Electrical: 120V, 12.5A, 1500W, 60Hz or 240V, 6A, 1500W, 50Hz
Capacity: 1.5 gals.
Max. Pressure: 60–85 PSI
Dimensions: 16½"W x 12"D x 19"H

	Description	Electrical	FOB Point	Item#	Each
A.	Jr. Steamer	120V	CT	**853-0059**	**$1,445.00**
	Jr. Steamer	120V	VA	**853-0072**	**1,430.00**
	Jr. Steamer for Texas	120V	VA	**853-0067**	**1,430.00**
	Jr. Steamer, 240V*	240V	CT	**853-0065**	**1,525.00**
B.	Stone saver tray (5" x 5" square)			**853-0321**	**48.50**

**Not UL approved.*

A

B

C

C. Steam Cleaner Powder

For removing rust and mineral deposits from boiler chamber of steam cleaner. The 4 oz. bottle is sufficient for one cleaning, which should be done once a week.

Description	Item#	EACH Prices 1-2	3-9	10+
Steam Cleaner Powder, 4 oz.	**853-1000**	**$5.95**	**$4.76**	**$4.17**

View instructional video at www.gesswein.com

D, E Automatic Water Feed Series Steamers – For high production

These steamers eliminate the need to manually fill and refill. Each model is equipped with an automatic water feeder that injects water as needed into the boiler under full pressure. Eliminates downtime, making steam readily available. Provides constant steam at approx. operating pressure of 50 PSI. Auto-6 is a compact version with one steam jet. Auto-8 has two steam jets. Electrical plugs not supplied. All models plumb to water line. Comply with ASME safety code. Use ordinary tap water.

Specifications:	Auto-6	Auto-8
Volts	208, 240 or 415	208, 240 or 415
Watts	6/8kW	10kW
Amps	33 (1 Ph)	48/42 (1 Ph)
Jets	1	2
Chamber Size	0.33 cu. ft.	0.92 cu. ft.
Max. Pressure	60–85 PSI	60–85 PSI per jet
Steam Generation	27 lbs./hour	34 lbs./hour
Dimensions	14¼"W x 14¼"D x 18"H	18"W x 30"D x 21"H
Ship. Wt.	76 lbs.	184 lbs.

	Description	Weight	Electrical		Item#	Each
D.	Auto-6	76 lbs.	208V, 1 Ph, 60Hz		**853-0209**	**$2,725.00**
			240V, 1 Ph, 50Hz*		**853-0211**	**2,750.00**
E.	Auto-8	184 lbs.	208V, 1 Ph, 60Hz		**853-0215**	**4,650.00**
			208V, 3 Ph, 60Hz		**853-0216**	**4,885.00**
			240V, 1 Ph, 60Hz		**853-0217**	**4,885.00**
			240V, 3 Ph, 60Hz		**853-0218**	**4,885.00**
			240V, 3 Ph, 50Hz*		**853-0219**	**4,885.00**
			415V, 3 Ph, 50Hz*		**853-0220**	**4,885.00**

**Export only—no UL certificate*

D

E

F. Auto-Blowdown Attachment – For Auto-6 and Auto-8

Drains the steamer tank automatically every night, keeping it clean for maximum life and reliable performance day after day. Activates when the steamer pressure drops to 15 PSI, opening the steamer valve and emptying the tank into your drain (steamer valve must be plumbed to drain). Refills tank automatically when steamer is turned on in the morning. Can be installed at time of purchase or retrofitted upon return of steamer to factory.

	Description	Item#	Each
F.	Auto-Blowdown for 120–240V, 60Hz units	**853-1075**	**$1,109.00**
	Auto-Blowdown for 240–415V, 50Hz units	**853-1076**	**1,129.00**

F

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A

See page 407 for Quatro SolderPure Fume and Particulate Extractor

A. Quatro Fresh-Air Series HEPA Air Purifiers

Ensure optimal gold recovery and air quality.

Polishing operations and bench work create a great deal of dust, some precious, some harmless and some toxic. Many dust collectors pick up much of the dust at the source, but jewelry polishing operations also allow a substantial amount of dust to become airborne and settle around the shop.

Fresh-Air Series Air Purifiers capture airborne dust and other contaminants in an advanced three-stage filtration system, then recirculate clean air back into the room. All provide complete room air exchange approx. 15 times per hour. Each includes smooth casters for easy relocation to dusty areas. Electrical: 120V (240V available). Optional odor filter also available by special order. Backed by a two-year manufacturer's warranty. Made in Canada.

Filtration System Features:

- Stage-1 Prefilter – Captures the biggest particles, prolonging the life of subsequent filters. Inexpensive and easy to change.
- Stage-2 HiCap Filter – Provides high-capacity particle retention. (Most precious metal will be captured by stage-1 and 2 filters, which can be sent to your refiner for reclamation.)
- Stage-3 HEPA Filter – Picks up 99.97% of 0.3 micron particulate, including soot and pollen. Recirculates clean air back into the room to help minimize heating and AC costs.

Fresh-Air Model	400	600	1000	2000
Specifications:				
Max. Room Size, (with 8' ceiling):	250 sq.ft.	400 sq.ft.	600 sq.ft.	1200 sq.ft.
Current Draw:	0.6A	1.0A	1.6A	5.4A
Net Wt.:	63 lbs.	119 lbs.	190 lbs.	350 lbs.
Dimensions, (WxDxH):	13"x16"x28½"	22"x16"x37"	22"x16"x52"	24"x26"x71"
EACH Price				
Model Item#	**854-1523**	**854-1522**	**854-1521**	**854-1520**
	$948.00	**$1,689.00**	**$2,062.00**	**$3,755.00**
Replacement Filters				
Dust Filter	**854-1394**	**854-2103**	**854-2103**	**854-2104**
Quantity	**6 each**	**8 each**	**8 each**	**8 each**
	$48.00	**$76.00**	**$76.00**	**$79.00**
HICAP	**854-2105**	**854-2106**	**854-2107**	**854-2108**
Quantity	**2 each**	**2 each**	**1 each**	**1 each**
	$97.00	**$116.00**	**$84.00**	**$111.00**
HEPA	**854-2109**	**854-2180**	**854-2181**	**854-2182**
Quantity	**1 each**	**1 each**	**1 each**	**1 each**
	$189.00	**$196.00**	**$265.00**	**$296.00**

B

C

Stand Sold Separately

B, C Quatro Ductless Fume Hoods – For those without access to outside ductwork.

Units feature a two-stage filtration system that captures fumes, then recirculates clean air back into the room to save on heating and AC costs. Burnout fume hood installs right on wall behind burnout furnace. Rhodium fume hood installs directly over plating area. Each has a metal-frame filter container that holds an activated charcoal media mixture specifically formulated for the respective application. Backed by a two-year manufacturer's warranty. Made in Canada.

Specifications:

Electrical: 120V, 1.6A, 60Hz, Dimensions: 28"W x 18"D x 26"H, Net Wt.: 50 lbs.

	Description	Item#	Each
B.	Burnout Fume Hood	**854-1525**	**$1,164.00**
	Rhodium Fume Hood	**854-1526**	**1,164.00**
	Replacement Dust Filters (8)	854-2103	76.00
	Stage-2 Media Refills (4) for both fumes	854-1409	122.00
	Stage-3 Media Refills (4) for burnout fumes	854-1527	213.00
	Stage-3 Media Refills (4) for rhodium fumes	854-1396	169.00
C.	Optional Stand	**854-1524**	**299.00**

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A. Glitz Organic-Based Jewelry Shiner

Employs organic cleaning agents and surfactants to clean, shine and protect your customers' jewelry. Contains no ammonia or other harsh chemicals. Safe for costume, fashion, metal, rhinestone and even opal jewelry due to its neutral pH.

Description	Item#	Each
2 oz. spray bottle	**812-0690**	**$6.75**

A

B. ESP Anti-Rust Spray – Contains no CFCs!

ESP (Extra Special Protection) leaves an ultra-thin film that shields metals from rust and corrosion. Lubricates delicate mechanisms and penetrates to loosen frozen nuts and bolts. Neutralizes fingerprints and displaces moisture. Protects rolling mills, machinery and tools. Cannot ship air, FedEx or US Mail.

Description		Item#	Each
ESP Spray, 16 oz. Spray Bottle	(H)	**825-1450**	**$14.95**

B

C-E Sprits Mold Sprays

Citrus Mold Cleaner and Cleaner/Degreaser Plus are general-purpose cleaners for removing release agents, greases, oils, fingerprints and other contaminants from molds, tools and machines. Mold Protectant contains three components that neutralize fingerprints, condensation and corrosion on molds, tools and machines. Cannot ship air, FedEx or US Mail.

	Description		Item#	Each
C.	Citrus Mold Cleaner, 12 fl. oz. can	(H)	**816-2932**	**$10.85**
	Citrus Mold Cleaner, case of 12	(H)	**816-2939**	**120.00**
D.	Cleaner/Degreaser Plus, 12 fl. oz. can	(H)	**816-2933**	**7.60**
	Cleaner/Degreaser Plus, case of 12	(H)	**816-2940**	**86.00**
E.	Mold Protectant, 12 fl. oz. can	(H)	**816-2934**	**6.25**
	Mold Protectant, case of 12	(H)	**816-2941**	**70.00**

C D E

F. JAX Silver Cleaner/Polisher

Cleans and polishes the blackest silver in just one application. Will not strip, streak or dull, making it safe for use on even the most delicate surfaces. Sold by the pint.

Description	Item#	Each
1 pt. Bottle	**210-1433**	**$12.95**

F

G. Silver Man Polishing Set

Provides a fast, easy way to restore lustrous shine to sterling silver, silver plate, gold, gold plate, stainless steel and copper. Simply place tray into a container or sink with hot water, add washing soda powder (two packets supplied) to activate the tarnish removing action, and add your tarnished objects. Draws the tarnish away from your silver in just seconds! Economically priced for your own use and for resale to your customers. Nontoxic and nonabrasive. Tray measures 8"L x 6"W.

Description	Item#	EACH Prices 1-2	3+
Silver Man Polishing Set	**820-0400**	**$9.65**	**$7.24**

G

(H) *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

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Compressed Air Filters

Compressed air filters remove water, oil, dirt and dust from compressed air. These contaminants can cause rust or premature wear in air handpieces, clogged lines in sandblasters or wax contamination in injectors. Even if your air compressor has an outlet filter, a long air line allows water vapor to condense downstream. To prevent contamination problems, install filters in the air line as close as possible to the air-driven tool, sandblaster or wax pot. Gesswein filters feature screw-on transparent polycarbonate bowls with automatic drains. Bowls are easily disassembled for cleaning without removal from the air line. Filters have ¼" ports unless otherwise specified.

A

B

A, B Miniature Filter/Regulator/Lubricator Assembly

For air handpieces.

Combines functions of filter, regulator and lubricator. General-purpose filter removes solid and liquid particles down to 5 microns. Regulator allows outlet pressure adjustment from 5 to 100 PSI. Microfog lubricator provides oil mist to lubricate moving parts of air handpieces. Has 1 oz. reservoir. Use optional bracket to mount on wall or bench. Maximum inlet pressure: 150 psi. Ports: ⅛".

	Description	Item#	Each
A.	Filter Assembly	**850-7349**	**$210.00**
B.	Mounting Bracket	**850-7335**	**9.30**
	Lube Oil, 8 oz.	**850-0985**	**25.00**
	Replacement Filter	850-7369	13.50

D

C

C, D Miniature Prefilter/Coalescing Filter Assembly

Ideal for applications requiring dry and extremely clean air. Designed for air compressors rated up to 3.5 CFM. Prefilter removes liquid and solid particles down to 5 microns; coalescing filter removes particles down to 0.01 micron. Use optional bracket to mount on wall or bench. Maximum inlet pressure: 150 PSI. Ports: ¼".

	Description	Item#	Each
C.	Filter Assembly	**850-7353**	**$109.00**
D.	Mounting Bracket	**850-7359**	**14.50**
	Replacement Prefilter (white)	850-7337	19.95
	Replacement Coalescing Filter (green)	850-7357	62.00

E

F

E, F Miniature Filter/Regulator

Combines the functions of filter and regulator. Filter removes solid and liquid particles in compressed air down to 5 microns. Regulator allows outlet pressure adjustment from 5 to 100 psi. Maintains nearly constant outlet pressure despite changes in inlet pressure. Use optional bracket to mount on wall or bench. Maximum inlet pressure: 150 psi. Ports: ¼".

	Description	Item#	Each
E.	Filter Assembly	**850-7333**	**$85.00**
F.	Mounting Bracket	**850-7335**	**9.30**
	Replacement Filter	850-7369	13.50

G

H

G, H Large Prefilter/Coalescing Filter Assembly

Designed for large air compressors rated up to 15 CFM. Ideal for applications requiring greater airflow. Prefilter removes liquid and solid particles down to 5 microns; coalescing filter removes particles down to 0.01 microns. Requires regulator for use with most air tools. Use optional bracket to mount on wall or bench. Maximum inlet pressure: 150 psi. Ports: ¼".

	Description	Item#	Each
G.	Filter Assembly	**850-7355**	**$160.00**
H.	Mounting Bracket	**850-7367**	**42.00**
	Replacement Prefilter (white)	850-7337	19.95
	Replacement Coalescing Filter (green)	850-7365	145.00

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A. SilentAire Compressor – Quiet yet powerful!

Premium value model with cooling fins for improved ventilation and Filter-Regulator with auto-drain feature and condensate bottle. Coalescent Filter to 0.01 micron.

So quiet you'll barely know it's there. Makes about as much noise as a refrigerator, so you can keep it under your table and work without distraction. Features powerful 1/2 HP motor that provides over 2 CFM of air. Handles up to 10 large Wax Injectors. Fully automatic. Includes handle for easy carrying. Measures 13" dia. x 25"H. Weighs 58 lbs. May require additional filter at the air tool to eliminate condensation that can form in very long airlines (see p. 248). Accepts ¼" male fittings (see below). Made in Italy.

Features:

- Tank and line pressure gauge
- Line pressure regulator
- Moisture trap and filter
- Safety valve
- Air-intake filter

Specifications:

Motor	1/2 HP
Max. Pressure	114 PSI
Tank Capacity	4 gals.
Displacement	2.15 CFM
Noise Level	40 dB

	Description	FOB	Electrical	Item#	Each
A.	SilentAire Compressor	CT	110V	**265-3100**	**$1,175.00**
	SilentAire Compressor	TX	110V	**265-3101**	**1,145.00**
	SilentAire Compressor	CT	220V, 50/60Hz	**265-3102**	**1,225.00**
	Replacement Oil, 22 oz.			265-3103	27.00

A

B. Air Gun with Self-Coiling Hose

A high-quality blow gun with responsive spring-loaded trigger. Produces a very narrow air stream on-demand. Includes convenient self-coiling ¼" hose and ¼" NPT coupler. Gun tip extends roughly 4" out of molded plastic handle.

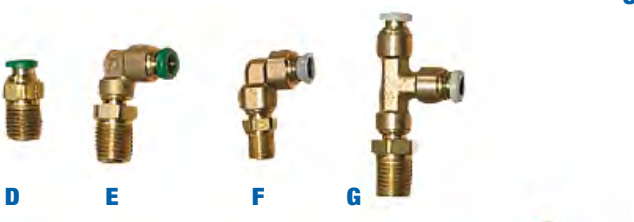
Description	Item#	Each
Air Gun with Self-Coiling Hose	**265-2325**	**$39.50**

B

C-M Quick Disconnect Air Hose and Fittings

Sturdy ¼" O.D. nylon air hose with .040" wall thickness and a collection of timesaving quick-disconnect fittings. To connect, just push air hose into fitting—it automatically locks in place. To disconnect, push back plastic ring on fitting and pull air hose out. The ¼" and ⅛" male fittings work with a variety of sandblasters, wax injectors, sprue cutters and more. Use ¼" males for air filters, regulators and vacuum pumps.

	Description	Item#	Per Foot
C.	Nylon Air Hose, ¼" O.D.	**265-2286**	**$0.94**
	Description	**Item#**	**Each**
D.	QD Connector, Male, ¼"	**265-2276**	**$6.85**
E.	QD Elbow, Male, ¼"	**265-2288**	**7.80**
F.	QD Swivel Elbow, Male, ⅛"	**265-2291**	**5.96**
G.	QD Swivel T-Connector, Male, ¼"	**265-2278**	**7.70**
H.	QD Connector, Male, ⅛"	**265-2277**	**3.75**
I.	Nipple Reducer, ¼"–⅛"	**265-2289**	**3.95**
J.	Plug for QD ¼" Connectors	**265-2283**	**1.60**
K.	Coupling, Female, ¼" to ¼"	**265-2284**	**2.75**
L.	QD Union (Straight), ¼"	**265-2282**	**4.65**
M.	QD Union T, ¼"	**265-2281**	**6.65**
	QD Union Elbow, ¼"	**265-2279**	**5.50**



D E F G

H I J K L M

N-P Barbed Fitting, Worm Drive Clamp and Reinforced Air Hose

Fitting works with most wax injectors and small vacuum pumps. Worm drive clamp fastens air hose securely to fitting.

Sturdy ¼" I.D. rubber air hose reinforced to withstand air pressures up to 250 PSI. Use for compressed air and vacuum pumps. Works with barbed fittings. Sold by the foot.

	Description	Item#	Each
N.	Worm Drive Clamp	**265-2274**	**$3.95**
O.	Barbed Fitting, ¼" NPT	**265-2272**	**5.95**
P.	Reinforced Air Hose	**265-2273**	**2.50**

N

O

P

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A

A. Vacuum Pump

A 1/3 HP unit provides 3 CFM for removing air bubbles from investment or pulling gases from flasks during casting so that molten metal can flow quickly into cavities. Electrical: 115V, 1 Ph, 60Hz. Measures 14¼"L x 5½"W x 11½"H. Ship. wt: 30 lbs.

Description	Item#	Each
Vacuum Pump - 1/3 HP	**265-1757**	**$428.95**

B

B. Thomas Oil-less Vacuum Pump

A quiet, efficient oil-less 1/4 HP unit provides 1.5 CFM designed for continuous use with your wax injector. Creates 29.9" Hg of vacuum. Recommended when maximum vacuum is the critical factor (i.e., when injecting large, complex or filigree molds). Runs cool and has few moving parts for minimal maintenance. Includes thermal overload protector with auto-reset. Measures 10"L x 6"W x 7"H. Ship. wt: 15.5 lbs. 230V 50Hz available by special order.

	Description	Electrical	Item#	Each
B.	Oil-less Vacuum Pump - 1/4 HP	115V, 4A, 60Hz	**265-2255**	**$825.00**
	Repair Kit (two required)		**265-2258**	**195.00**

C

C. Busch™ Rotary Vane Vacuum Pumps

Oil-sealed, air-cooled direct-drive pumps excellent for applications in which the vacuum source must be reliable and unobtrusive. Operate quietly with low vibration. Each includes inlet filter assembly.

The 1¼ HP Vacuum Pump #15 provides 15 CFM free air displacement. Ideal for use with VacuVest #10. Measures 17"L x 10½"W x 9"H. Ship. wt: 60 lbs.

The 2 HP Vacuum Pump #28 provides 28 CFM free air displacement. Ideal for use with VacuVest #20. Measures 28"L x 15"W x 10½"H. Ship. wt: 173 lbs.

	Description	Electrical	Item#	Each
C.	Vacuum Pump #15 - 1 1/4 HP	220V, 1 Ph, 60Hz	**265-2386**	**$2,499.00**
	Vacuum Pump #15 - 1 1/4 HP	220V, 1 Ph, 50Hz*	**265-2388**	**2,790.00**
	Vacuum Pump #28 - 2 HP	115/230V, 1 Ph, 60Hz	**265-2381**	**3,795.00**
	Vacuum Pump #28 - 2 HP	230V, 3 Ph, 50/60Hz	**265-2387**	**3,495.95**
	Oil for #15, 1 qt.		265-1708	32.99
	Oil for #28, 1 qt.		265-1707	8.75

For export only.

D

D. Airtech™ Rotary Vane Vacuum Pumps

Oil-flooded, air-cooled direct-drive vacuum pumps designed for reliability and longevity. Feature durable composite vanes, oil level sight glass, wire mesh inlet filter, exhaust filters and vibration isolators for quiet operation. Choose from 15 CFM and 31 CFM models.

Specifications:	15 CFM	31 CFM
Motor	1 HP	2 HP
Noise Level	62 dBA	67 dBA
Electrical	115/230V, 1 Ph, 60Hz	208–230/460V, 3 Ph, 50/60Hz
Dimensions	16⅛"L x 10¾"W x 8⅝"H	27"L x 11½W" x 11"H
Net/Ship. Wt.	42/70	116/140

Description	Electrical	Item#	Each
15 CFM Vacuum Pump - 1 HP	115/230V, 1 Ph, 60Hz	**265-1690**	**$2,325.00**
31 CFM Vacuum Pump - 2 HP	208-230/406V, 3 Ph, 50/60Hz	**265-1691**	**3,145.95**

E

E. Flushing Oil

For optimal service and long life from your vacuum pump, use flushing oil once a year. Just drain all the old oil, fill to normal level with flushing oil, run pump for 30 minutes, drain flushing oil, then fill with appropriate vacuum pump oil. Sold in 1 qt. container.

Description	Item#	Each
Flushing Oil, 1 qt.	**265-1706**	**$34.00**

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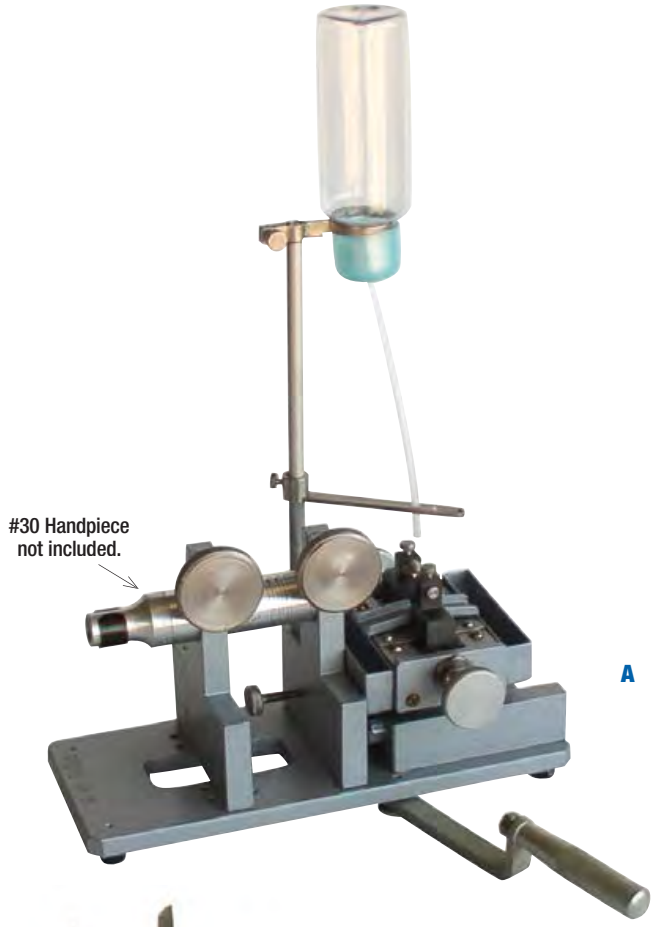
A. PEPETOOLS Professional Pearl & Bead Drilling Machine

Drilling holes in pearls and beads can present several challenges, mainly when it comes to fixing them in place. This drill press meets those challenges head-on to help save precious time. Features a unique adjustable holding jig for securing multiple sizes of pearls and stones, ensuring you get straight, properly sized holes each and every time. Works in combination with your #30 handpiece (see p. 438) and flex shaft.

Features:

- Double-loop holder for securing your #30 handpiece
- Brass cup jaws for easy and stable mounting of pearls and beads
- 180° rotating jaw table for preventing hole misalignment when drilling from the opposite side
- Water holding post for cooling items while drilling, allows use of diamond drill bits
- Advancing lever for moving items securely into drill

Description	Item#	Each
Drilling Machine	**816-1445**	**$215.00**



A

B. Pearl Drills – 1/8" Shank

Used to drill setting holes for seed pearls as well as both round and half-round stones. Sold individually and in a set of 12 diameters with plastic stand and cover.

Dia. (mm)	Item#	Each
1.05	**816-1425**	**$6.90**
1.20	**816-1426**	**6.90**
1.45	**816-1427**	**6.90**
1.65	**816-1428**	**6.90**
1.85	**816-1429**	**6.90**
2.05	**816-1430**	**6.90**
2.26	**816-1431**	**6.90**
2.40	**816-1432**	**6.90**
3.00	**816-1435**	**6.90**
12-Piece Set (1.05, 1.20, 1.35, 1.45, 1.65, 1.85, 2.05, 2.26, 2.40, 2.65, 2.83, 3.00mm)	**816-1420**	**95.92**

B

C. Hand Drill

A sturdy, smooth-operating tool for easy control of drilling speed and pressure. Includes keyless chuck with 1/4" capacity. Measures approximately 9 1/2" overall length. Color may vary.

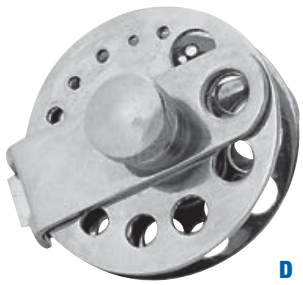
Description	Item#	Each
Hand Drill	**816-1410**	**$19.90**

C

D. Pearl Holding Vise

This steel vise secures all popular sizes of pearls for easy drilling. Has 13 holes for holding pearls or beads and knurled locknuts for fast clamping and releasing. Includes carrying pouch. Measures 1 3/8" in diameter. Imported.

Description	Item#	Each
Pearl Holding Vise	**816-1440**	**$8.15**



D

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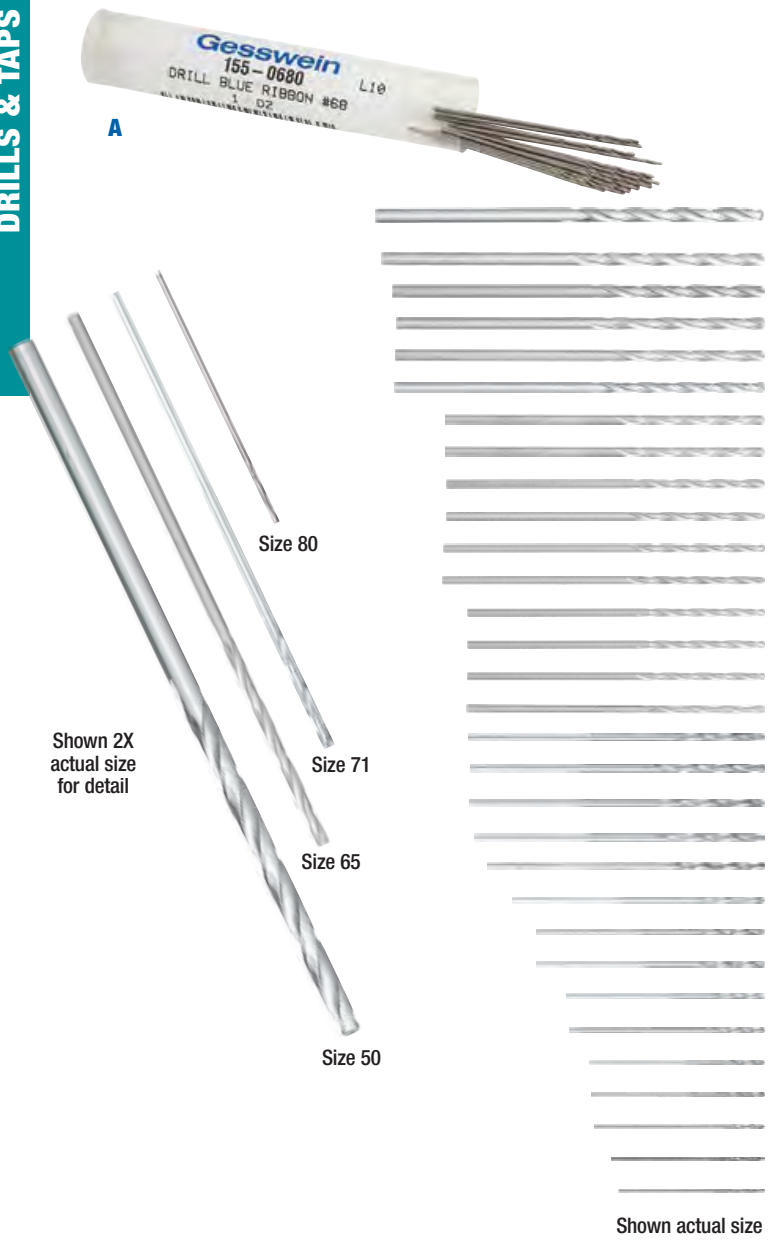


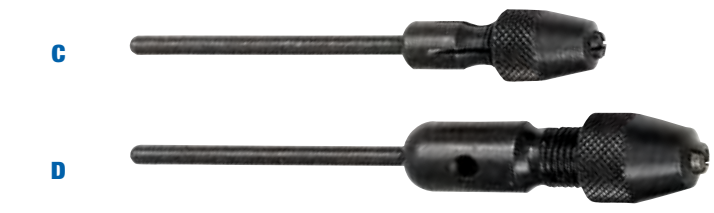
A. Blue Ribbon™ High-Speed Twist Drills – Made in USA.

Jobbers length drills made of the finest high-speed steel, heat-treated to 63–65 HRC and precision-ground to a tolerance of +.0000 to –.0003" for a perfect hole every time. Great on all metals, even surgical steel. Checked under a 20X microscope before shipping. Sold by the dozen.

Size	Dia. (inches)	Item#	DZ. Prices 1-11	12+
50	.070	**155-0500**	**$21.10**	**$18.99**
51	.067	**155-0510**	**21.10**	**18.99**
52	.0635	**155-0520**	**21.10**	**18.99**
53	.0595	**155-0530**	**21.10**	**18.99**
54	.055	**155-0540**	**21.10**	**18.99**
55	.052	**155-0550**	**21.10**	**18.99**
56	.0465	**155-0560**	**21.10**	**18.99**
57	.043	**155-0570**	**21.10**	**18.99**
58	.042	**155-0580**	**21.10**	**18.99**
59	.041	**155-0590**	**21.10**	**18.99**
60	.040	**155-0600**	**21.10**	**18.99**
61	.039	**155-0610**	**21.10**	**18.99**
62	.038	**155-0620**	**21.10**	**18.99**
63	.037	**155-0630**	**21.10**	**18.99**
64	.036	**155-0640**	**21.10**	**18.99**
65	.035	**155-0650**	**21.10**	**18.99**
66	.033	**155-0660**	**21.10**	**18.99**
67	.032	**155-0670**	**21.10**	**18.99**
68	.031	**155-0680**	**21.10**	**18.99**
69	.0292	**155-0690**	**23.70**	**21.33**
70	.028	**155-0700**	**23.70**	**21.33**
71	.026	**155-0710**	**28.85**	**25.97**
72	.025	**155-0720**	**28.85**	**25.97**
73	.024	**155-0730**	**28.85**	**25.97**
74	.0225	**155-0740**	**28.85**	**25.97**
75	.021	**155-0750**	**28.85**	**25.97**
76	.020	**155-0760**	**28.85**	**25.97**
77	.018	**155-0770**	**28.85**	**25.97**
78	.016	**155-0780**	**28.85**	**25.97**
79	.0145	**155-0790**	**35.15**	**31.64**
80	.0135	**155-0800**	**35.15**	**31.64**

B. Blue Ribbon™ High-Speed Twist Drill Sets

	Description	Item#	Each
B.	20-Piece Set (sizes 61–80)	**155-2020**	**$43.50**
	12-Piece Set (sizes 55, 57, 60, 62, 64, 65, 66, 68, 70, 72, 73 and 75)	**155-2010**	**23.50**



C, D Adapter Chucks – 3/32" Shank

Allow you to use tools with small shanks in standard flex shaft handpieces. Threads are right-hand.

	Description	Item#	Each
C.	0-1.00mm Chuck	**840-3210**	**$13.35**
D.	0-2.62mm Chuck	**840-3220**	**15.50**

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A. Busch® High-Speed Metric Twist Drills – Fig 203HSS – 3/32" Shank

Made of high-speed steel. More durable than tungsten vanadium steel on hard metals such as white gold, platinum, surgical steel and more. Made in Germany.

Diameter (mm)	Diameter (inches)	Item#	EACH Prices (2pc) 2-22	24+
0.50	.0197	**122-6992**	**$5.95**	**$5.06**
0.60	.0236	**122-6993**	**5.95**	**5.06**
0.70	.0276	**122-6994**	**5.95**	**5.06**
0.80	.0315	**122-6995**	**5.95**	**5.06**
0.90	.0354	**122-6996**	**5.95**	**5.06**
1.00	.0393	**122-6997**	**5.95**	**5.06**
1.10	.0433	**122-6998**	**5.95**	**5.06**
1.20	.0472	**122-6999**	**5.95**	**5.06**
1.30	.0512	**122-7000**	**5.95**	**5.06**
1.40	.0551	**122-7001**	**5.95**	**5.06**
1.50	.0591	**122-7002**	**5.95**	**5.06**
1.60	.0630	**122-7003**	**5.95**	**5.06**

A

B. Busch® Metric Twist Drills – 3/32" Shank

Made of tungsten vanadium steel. For handpieces with 3/32" collets. Sold in multiples of six or a set of one each, 12 sizes. Germany.

Diameter (mm)	Diameter (inches)	Item#	EACH Prices (6pc) 6-66	72-138	144+
0.50	.0197	**122-7005**	**$2.39**	**$2.03**	**$1.91**
0.60	.0236	**122-7006**	**2.39**	**2.03**	**1.91**
0.70	.0276	**122-7007**	**2.39**	**2.03**	**1.91**
0.80	.0315	**122-7008**	**2.39**	**2.03**	**1.91**
0.90	.0354	**122-7009**	**2.39**	**2.03**	**1.91**
1.00	.0393	**122-7010**	**2.39**	**2.03**	**1.91**
1.10	.0433	**122-7011**	**2.39**	**2.03**	**1.91**
1.20	.0472	**122-7012**	**2.39**	**2.03**	**1.91**
1.40	.0551	**122-7014**	**2.39**	**2.03**	**1.91**
1.50	.0591	**122-7015**	**2.39**	**2.03**	**1.91**
1.60	.0630	**122-7016**	**2.39**	**2.03**	**1.91**
1.70	.0669	**122-7017**	**2.39**	**2.03**	**1.91**
1.80	.0709	**122-7018**	**2.39**	**2.03**	**1.91**
1.90	.0748	**122-7019**	**2.39**	**2.03**	**1.91**
2.10	.0827	**122-7021**	**2.39**	**2.03**	**1.91**
2.30	.0906	**122-7023**	**2.39**	**2.03**	**1.91**

B

C. Busch® Metric Twist Drill Set

Made of tungsten vanadium steel. Includes 0.60, 0.70, 0.80, 0.90, 1.00, 1.20, 1.40, 1.50, 1.60, 1.80, 2.10 and 2.30mm sizes. Made in Germany.

Description	Item#	Each
12-Piece Set	**122-7030**	**$28.65**

C

D. Busch® Carbide Twist Drills – Fig 4203S – 3/32" Shank

Made of carbide for hardness and long life. Carbide Twist Drills are packaged two to a box; available only in multiples of two. Germany.

Diameter (mm)	Diameter (inches)	Item#	EACH Prices (2pc) 2-22	24+
0.70	.0276	**125-5487**	**$14.65**	**$12.45**
0.80	.0315	**125-5488**	**14.65**	**12.45**
0.90	.0354	**125-5489**	**14.65**	**12.45**
1.00	.0393	**125-5490**	**14.65**	**12.45**
1.10	.0433	**125-5491**	**14.65**	**12.45**
1.20	.0472	**125-5492**	**14.65**	**12.45**
1.30	.0512	**125-5493**	**14.65**	**12.45**
1.40	.0551	**125-5494**	**14.65**	**12.45**
1.50	.0591	**125-5495**	**14.65**	**12.45**
1.60	.0630	**125-5496**	**14.65**	**12.45**

2 grooves

D

(2pc) *Two-piece minimum; Please order in multiples of two.* (6pc) *Six-piece minimum; Please order in multiples of six.*

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A

B

C

D

E

A. High Speed Steel Metric Twist Drills

High-speed steel twist drills with matching tip and shank diameters. Feature bright finish, precision tips with the optimal cutting angle and sharp flutes with the proper spiral and finished outer edges. Made in Germany. Sold in packages of 10.

Diameter (mm)	Diameter (inches)	Item#	PKG. of 10 1-4	PKG. of 10 5+
0.50	.0197	**155-0900**	**$10.25**	**$9.23**
0.60	.0236	**155-0902**	**10.25**	**9.23**
0.70	.0276	**155-0904**	**9.30**	**8.37**
0.80	.0315	**155-0906**	**8.85**	**7.97**
0.90	.0354	**155-0908**	**8.85**	**7.97**
1.00	.0393	**155-0910**	**8.85**	**7.97**
1.10	.0433	**155-0912**	**8.15**	**7.34**
1.20	.0472	**155-0914**	**8.15**	**7.34**
1.30	.0512	**155-0916**	**8.15**	**7.34**
1.40	.0551	**155-0918**	**8.15**	**7.34**
1.50	.0591	**155-0920**	**8.15**	**7.34**
1.60	.0630	**155-0922**	**8.15**	**7.34**

B. High Speed Steel Metric Twist Drill Set

Includes one package of each size listed above.

Description	Item#	Each
120-Piece Set	**155-0899**	**$82.50**

C. MAILLEFER Metric Twist Drills – 3/32" Shank

Made of tungsten vanadium steel. For handpieces with 3/32" collets. Sold in multiples of six or in a set of one each of selected sizes see below. Made in Switzerland.

Diameter (mm)	Diameter (inches)	Item#	EACH Prices (6pc) 6-66	EACH Prices 72-138	EACH Prices 144+
0.50	.0197	**155-2300**	**$2.39**	**$2.03**	**$1.91**
0.60	.0236	**155-2301**	**2.39**	**2.03**	**1.91**
0.70	.0276	**155-2302**	**2.39**	**2.03**	**1.91**
0.80	.0315	**155-2303**	**2.39**	**2.03**	**1.91**
0.90	.0354	**155-2304**	**2.39**	**2.03**	**1.91**
1.00	.0393	**155-2305**	**2.39**	**2.03**	**1.91**
1.10	.0433	**155-2306**	**2.39**	**2.03**	**1.91**
1.20	.0472	**155-2307**	**2.39**	**2.03**	**1.91**
1.40	.0551	**155-2309**	**2.39**	**2.03**	**1.91**
1.50	.0591	**155-2310**	**2.39**	**2.03**	**1.91**
1.60	.0630	**155-2311**	**2.39**	**2.03**	**1.91**
1.70	.0669	**155-2312**	**2.99**	**2.54**	**2.39**
1.80	.0709	**155-2313**	**2.99**	**2.54**	**2.39**
1.90	.0748	**155-2314**	**2.99**	**2.54**	**2.39**
2.10	.0827	**155-2316**	**2.99**	**2.54**	**2.39**
2.30	.0906	**155-2318**	**2.99**	**2.54**	**2.39**

(6pc) *Six-piece minimum; Please order in multiples of six.*

D. MAILLEFER Metric Twist Drill Set

Includes 0.60, 0.70, 0.80, 0.90, 1.00, 1.20, 1.40, 1.50, 1.60, 1.80, 2.10 and 2.30mm sizes. Made in Switzerland.

Description	Item#	Each
12-Piece Set	**155-2319**	**$33.65**

E. Automatic Center Punch

Delivers a sharp blow when depressed. Lets you vary impressions by simply adjusting the knurled head. Measures 4 3/4" long.

Description	Item#	Each
Automatic Center Punch	**814-1100**	**$27.95**
Replacement Tip	814-1102	7.40

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A, B Diamond Twist Drills

High-speed steel twist drills coated at the tips with medium-fine diamond grit for drilling stones, ceramics, glass and other hard, non-metallic materials. Use water as a lubricant. Available individually or in a set of all 12 sizes.

	Diameter Size	(mm)	(inches)	Item#	Each
A.	65	0.90	.035	**226-1365**	**$6.95**
	61	0.99	.039	**226-1361**	**6.95**
	56	1.18	.0465	**226-1356**	**6.95**
	54	1.39	.055	**226-1354**	**6.95**
	53	1.51	.0595	**226-1353**	**6.95**
	52	1.61	.0635	**226-1352**	**6.95**
	51	1.70	.067	**226-1351**	**6.95**
	50	1.77	.070	**226-1350**	**6.95**
	47	1.99	.078	**226-1347**	**6.95**
	45	2.08	.082	**226-1345**	**6.95**
	40	2.49	.098	**226-1340**	**6.95**
	36	2.70	.106	**226-1336**	**6.95**
B.	12-Piece Set (one of each size)			**226-1300**	**59.95**

A

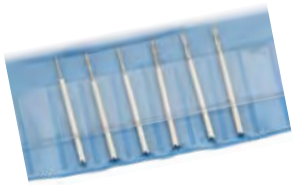
B

C, D Metric Diamond Twist Drills – 3/32" Shank

Twist drills electroplated with medium-fine diamond grit for drilling stones, pearls, glass and ceramics. Can be used with any standard flex shaft handpiece. Use water as lubricant. Available individually or in a set of all 6 sizes.

	Diameter (mm)	(inches)	Item#	Each
C.	1.00	.0393	**226-1241**	**$4.95**
	1.30	.0512	**226-1242**	**4.95**
	1.40	.0551	**226-1243**	**4.95**
	1.60	.0630	**226-1244**	**4.95**
	1.80	.0709	**226-1245**	**4.95**
	2.10	.0827	**226-1246**	**4.95**
D.	6-Piece Set (one of each size)		**226-1240**	**26.95**

C



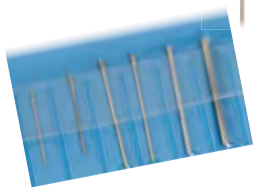
D

E, F Diamond Drill Sticks

Hardened steel drills coated at the tips with diamond grit for fast drilling of stones and ceramics. Run at speeds between 5,000 and 20,000rpm. Use water or light oil as lubricant. Available individually or in a set of all 6 sizes.

	Dia. (mm)	Item#	Each
E.	0.75	**226-1455**	**$2.95**
	1.0	**226-1460**	**2.95**
	1.25	**226-1465**	**2.95**
	1.5	**226-1470**	**2.95**
	2.0	**226-1475**	**2.95**
	2.5	**226-1480**	**2.95**
F.	6-Piece Set (one of each size)	**226-1450**	**17.95**

E



F

G-M Diamond Core Drills – 3mm Shank

Stainless steel drills electroplated with medium-fine diamond grit for cutting holes in stones, ceramics and glass without chipping or cracking. Must use water or light oil as lubricant.

	Dia. (mm)	Item#	Each
	1.5	**226-1401**	**$5.95**
G.	2.0	**226-1402**	**5.95**
H.	2.5	**226-1403**	**5.95**
I.	3.0	**226-1404**	**5.95**
J.	5.0	**226-1408**	**8.95**
K.	6.5	**226-1411**	**10.85**
L.	9.5	**226-1417**	**14.85**
	10.0	**226-1418**	**15.95**
M.	11.0	**226-1420**	**18.50**

G H I J K L M

Shown actual size

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A

A. Colibri Tap Set with Die Plate

Includes eight replaceable steel taps (see below) for threading insides of holes and matching 4⅜"L x ⅞"W steel die plate with clearly marked sizes for threading wires. Lets you make your own screws and ear wire threads. Made in Germany.

Description	Item#	Each
Tap Set with Die Plate	**816-2047**	**$159.00**
Replacements		
0.6mm Tap	816-1997	7.95
0.8mm Tap	816-2001	7.95
1.0mm Tap	816-2003	7.95
1.2mm Tap	816-2005	7.95
1.4mm Tap	816-2007	8.40
1.6mm Tap	816-2009	8.40
1.8mm Tap	816-2011	8.40
2.0mm Tap	816-2013	8.40
Die Plate	816-2048	130.00

B

C

D

E

F

B-F Reamers

Made of tempered steel, these five-sided cutting broaches are used for cleaning and reaming holes. Sizes are for diameters measured slightly below largest part of cutting edges.

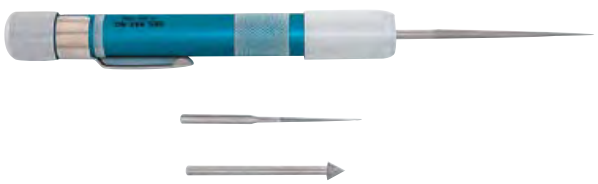
	Stubbs Size	Diameter (mm)	Diameter (inches)	Item#	Each
B.	30	3.226	.127	**821-0300**	**$5.30**
C.	40	2.464	.097	**821-0400**	**3.30**
D.	50	1.753	.069	**821-0500**	**2.50**
E.	60	0.990	.039	**821-0600**	**1.80**
F.	70	0.685	.027	**821-0700**	**1.70**
	12-Piece Set (15, 25, 30, 35, 40, 45, 48, 51, 54, 56, 65, 70)			**821-1157**	**36.25**
	12-Piece Set (30, 35, 40, 45, 48, 52, 54, 55, 58, 62, 65, 70)			**821-1307**	**36.25**

G

G. Reamer Set

Includes six five-sided cutting broaches in Stubbs sizes 46–72 (2.007-0.610mm in diameter). Comes complete with plastic case. Broaches feature regular taper with excellent finish and comfortable plastic handles. Made in Germany.

Description	Item#	Each
Reamer Set	**821-1309**	**$13.95**



H

H. Deluxe Diamond-Coated Bead Reamer Set

Includes hollow anodized aluminum handle for storing tips when not in use, easy-to-open brass tool chuck that will not rust and three diamond tips: large reamer, small reamer and 45° edger. Use water or lubricant (such as Lube Stik #816-2460, see p. 480) with diamond tools. Handle measures ½" dia. x 4½"L.

	Description	Item#	Each
H.	Deluxe Bead Reamer Set	**821-2005**	**$13.75**
	Large Reamer	821-2009	2.45
	Small Reamer	821-2007	1.85
	45° Edger	821-2008	1.75

I

I. Brass Riveting Wire

Used to make pins or rivets in pin findings for jewelry. Sold in packages of 6" lengths in assorted B&S gauge diameters (14–21).

Description	Item#	PKG. Prices 1-11	PKG. Prices 12+
Brass Riveting Wire	**816-2600**	**$4.20**	**$3.57**

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A. Gesswein® Solid Carbide Drills

Jobbers Length, Fractional Inch Sizes

Standard spiral, two-flute long-life drills with 118° drill points. Use on tool steels, cast steel, aluminum, bronze and nonmetallic materials. All drills are machine-ground (many by CNC). Gesswein Carbide Drills have consistent, uniform flute depths, so they produce dependable results order-to-order. For individual drills (see p. 178).

Description	Item#	Each
A. 6-Piece Set (one each of following popular sizes: 1/16", 1/8", 3/16", 1/4", 5/16", 3/8")	**155-2207**	**$180.00**

A

B. Diamond Drilling Compound

Used with Diamond Lapp Drills (below) to drill holes in stones. Base in which diamond is suspended holds particles in place until they become embedded in face of drill.

Size	Item#	Each
1g Syringe	**216-0450**	**$8.35**

B

C-F Diamond Lapp Drills

Hollow brass drills used with Diamond Drilling Compound (above) to make holes in stones without cracking them. Gently apply drill to surface on which diamond compound has been applied. Use slow speed and let up on drill frequently. Makes perfect holes in onyx, ruby, etc. Due to large shank size, use with #30 handpiece (see p. 438). Must be used with Lubricant/Thinner (see below).

Dia.	Item#	Each
C. 1.5mm	**813-0100**	**$4.75**
D. 2mm	**813-0200**	**4.75**
E. 2.5mm	**813-0300**	**4.75**
F. 3mm	**813-0400**	**4.75**
Set of all 4	**813-0500**	**18.25**

C D E F

G-J Oil Soluble Lubricant/Thinner

To use all brands of compounds most efficiently, we recommend adding a lubricant to allow the compound to cut at its peak performance and to prevent gumming up or chattering. When added to diamond compound on the workpiece, lubricant thins out the mixture, creating a slurry and extending the compound. Available in spray or squeeze bottle.

Description	Size	Item#	Each
G. Lubricant/Thinner	3/4 oz. Squeeze Bottle	**825-1295**	**$2.50**
H.	4 oz. Spray Bottle	**825-1303**	**4.95**
I.	8 oz. Bottle	**825-1300**	**6.85**
J.	32 oz. Bottle	**825-1305**	**19.60**

G H I J

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Gesswein® Rhodium Plating Kits

If you've never plated before, Rhodium plating is a great introduction because the process consists of just a few steps and our Gesswein Rhodium Plating Kits contain everything you need to get started. And Gesswein's knowledgeable technical staff is always ready if you need a little help.

Rhodium is an extremely bright white metal, much whiter than palladium and platinum. Rhodium is also extremely hard and highly resistant to scratching from everyday wear. It's also hypoallergenic and will not tarnish. For these reasons, Rhodium is often plated over white gold, platinum, and palladium jewelry.

Rhodium plating is also used in electronics because of its low electrical resistance, low and stable contact resistance, and high corrosion resistance.

The most important considerations when plating Rhodium are:

- Use lead-free solder on jewelry repairs or you'll need to preplate with copper and nickel prior to Rhodium..
- Polish and thoroughly clean items before plating.
- Keep the Rhodium bath covered when not in use.
- Keep the Rhodium bath clean (use our Carbon Treatment Set, p. 265).

A

A. Rhodium Plating Kits

Kits for rhodium-plating any precious metal. Choose between kits with a 10A or 25A rectifier.

Components:

- 10A or 25A digital rectifier with lead wires (115/230V)
- 1g rhodium and 1 pt. distilled water
- 1 lb. electrocleaner powder for removing fingerprints and dirt
- 1 lb. EarthGold Acid Activator
- Stainless steel anode for electrocleaning
- Platinum-clad niobium anode for transmitting current to the rhodium plating bath
- Three 1,000ml graduated Pyrex beakers with flexible plastic covers for holding and storing electrocleaner and rhodium solutions
- ½ lb. spool of copper work wire for holding items while plating

Description		Item#	Each
Kit with 10A Rectifier	(H)	**210-0001**	**$615.00**
Kit with 25A Rectifier	(H)	**210-0003**	**665.00**

Prices change with current market value.

B

B. Econo Rhodium Plating Kits

These kits have everything needed for small scale rhodium plating. Choose from kits with a 10A or 25A rectifier.

Components:

- 10A or 25A digital rectifier with lead wires (115/230V)
- ½g rhodium and 1 pt. distilled water
- 1 lb. electrocleaner powder for removing fingerprints and dirt
- 1 lb. EarthGold Acid Activator
- Stainless steel "T" anode for electro-cleaning
- Platinum-clad titanium "T" anode for transmitting current to the rhodium plating bath
- Three 600 ml graduated Pyrex beakers with flexible plastic covers for holding and storing electrocleaner and rhodium solutions
- ½ lb. spool of copper work wire for holding items while plating

Description		Item#	Each
Econo Kit with 10A Rectifier	(H)	**210-0004**	**$530.00**
Econo Kit with 25A Rectifier	(H)	**210-0005**	**550.00**

Prices change with current market value.

(H) *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

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About Rectifiers

Rectifiers serve as sources of direct current for electroplating and electrostripping operations. A rectifier that operates on 115V AC and converts it to direct current can be easily regulated to produce the required voltage. When selecting a rectifier, be sure to choose one with sufficient amperage output, which determines the size of the bath as well as the surface area that can be plated. A rectifier with 10A output is recommended for smaller baths and can be used for electrostripping smaller items. For larger baths and electrostripping larger items, a rectifier capable of producing 25A or more should be considered.

A. Junior 500 Multiplate for Rhodium Plating – For pen and bath plating

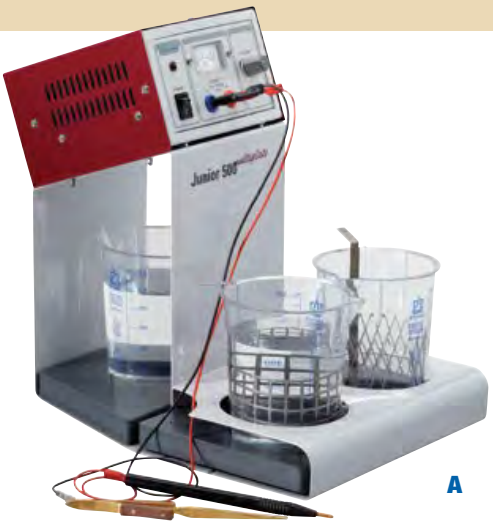
The Junior 500 Multiplate enables both bath plating and pen plating in one compact set up. The Dial up voltage gauge reads in single volts for the precise control required for rhodium plating. Specially designed for flawless rhodium plating: use beaker with stainless steel anode for electrocleaner, plain beaker for acid activator, and beaker with platinum-clad titanium anode for rhodium. Made in Germany.

Features:

- 15A rectifier with color-coded leads
- 3 plastic beakers (600ml with 500ml operating capacity). Covers are not included.
- 2 heavy-duty acid-resistant plastic beaker stands (removable)
- 2 circular mesh anodes for optimum coverage: 1 stainless steel and 1 platinum clad titanium
- Pen plating attachment and cathode locking tweezers
- Heavy-duty 12 gauge stainless steel housing with acid-resistant coating
- Transformer for operation on 115V or 230V

Specifications:

Electrical: 230V, includes transformer for operation on 115V, 60Hz
Dimensions:
Unit: 10"W x 13" Deep x 14" High
Beakers: 3⅝"D x 5" Tall
Net Wt: 14.5 lbs., Ship Wt: 21.4 lbs.



A

Description	Item#	Each
Junior 500 Multiplate	**212-0915**	**$999.00**
Optional Plastic Beaker Lid	**212-0917**	**13.50**
Replacement Plastic Beaker	212-0916	**18.50**
Replacement SS Round Anode	212-0918	**34.50**
Replacement Plat Titanium Anode	212-0922	**174.50**
Replacement Tweezers w/Clamp	212-0920	**95.50**
Replacement Plating Pen w/Clamp	212-0921	**169.50**

B. PEPETOOLS Thermocontroller and Magnetic Mixer Set

Because hotplates and similar heating units for plating heat from underneath, and the glass commonly used for beakers is a very good insulator, these units take a long time to heat and fail to provide accurate, consistent temperature control. This revolutionary set solves these problems by heating your bath from within and constantly stirring it to maintain even temperature. Suitable for small and large baths. Heats a 2-liter bath to 125°F in 30 minutes.

Includes Thermocontroller with coil and sensor and Magnetic Mixer with stirring pellet. Thermocontroller turns blue when bath is not hot enough and green when at temperature, allowing you to see at a glance when solution is ready. Has a control dial and switch for displaying temperature in °F or °C. Measures 4.8"W x 5.9"D x 1.4"H. Magnetic Mixer has a control dial that allows you to fine-tune stirring speed. For consistent even plating the PEPE Thermocontroller and Magnetic Mixer Set is a must! Measures 3.0"W x 6.9"D x 5.1"H. Both units also include 110/220V selector switch.

B

Description	Item#	Each
Thermocontroller and Magnetic Mixer Set	**212-0732**	**$499.00**

C. PEPETOOLS Digital Rectifiers – For plating and stripping!

Ideal for a variety of plating and stripping jobs. Choose from 10A and 25A models. Use the 10A for plating small and large single items, or use the 25A for plating several items at once and stripping small items. Comes with lead wires.

Features:

- Input voltage selector switch for 115/230V operation
- Voltage regulator/indicator and amperage regulator/indicator
- Self-restoring internal short-circuit protection
- Compact, 4¼"W x 8¾"D x 6½"H

Specifications:

Voltage Range: 1.20–12.00V in 0.01V increments
Amperage Range: 0.00–10.00A or 0.00–25.00A in 0.01A increments
Electrical: 115V, 5A, 60Hz or 230V, 2.5A, 50Hz

C

Description	Item#	Each
10A Digital Rectifier	**212-0953**	**$349.00**
25A Digital Rectifier	**212-0954**	**355.00**

All prices subject to change without notice.

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A

A. EarthGold Cyanide-Free Plating Kits

Each kit includes all you need to plate 14K gold, nickel, copper and rhodium over nickel, silver, sterling silver, gold, rhodium and most other precious and nonprecious metals. Components are completely cyanide-free. Plating solutions leave bright, durable deposits just as thick as those produced by standard cyanide plating solutions.

EarthGold Kit with Rhodium includes:

- 10A digital rectifier with lead wires (115/230V)
- 1 qt. 14K gold solution for creating bright yellow gold plating (contains ½ dwt. gold)
- 1 qt. bright nickel solution, often used for preplating
- 1 qt. copper strike solution for use on any hard-to-plate metal
- 1 qt. bright copper solution for a bright mirror plate
- 1g rhodium and 1 pt. distilled water (nonhazardous-shipping rhodium #210-0961)*
- 1 lb. electrocleaner powder for removing fingerprints and dirt
- 1 lb. acid activator powder for preparing hard-to-plate metals, such as stainless steel, chrome and those containing lead or zinc
- Two copper, one nickel, two stainless steel and one platinum-clad niobium anode
- Six 600ml Pyrex beakers with flexible plastic covers
- One 1,000ml Pyrex beaker with flexible plastic cover*
- Plating thermometer, air agitator, stirring rod and Whatman 0–14 pH strips
- ½ lb. spool of copper work wire for holding items while plating
- 2 oz. Supra Galvex ultrasonic cleaning solution

	Description		Item#	Each
A.	EarthGold Kit with Rhodium	(H)	**210-0900**	**$975.00**
	EarthGold Kit without Rhodium*		**210-0901**	**735.00**

**Includes everything listed except rhodium and 1,000ml beaker.* *Prices change with current market value.*

(H) *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

B

B. Large Measuring Beaker

A durable polypropylene 5,000ml beaker with convenient handle and 100ml graduations for easy, accurate pouring.

Description	Item#	Each
Large Measuring Beaker	**210-2426**	**$58.95**

C

C. Whatman 0–14 pH Strips

Extra pH strips for checking your EarthGold plating baths. 6 x 80mm, 100/pkg.

Description	Item#	Pkg. of 100
Whatman 0–14 pH Strips	**210-2401**	**$38.75**

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A-J EarthGold Cyanide-Free Plating Solutions

Choose from 10 different cyanide-free plating solutions for leaving bright, durable deposits just as thick as those produced by standard cyanide plating solutions.

	Description	Qty.	Item#	Each
A.	14K Yellow	1 qt.	210-0930	$130.00
		1 gal.	210-0931	475.00
B.	18K Yellow	1 qt.	210-0932	139.28
		1 gal.	210-0933	522.95
C.	24K Yellow	1 qt.	210-0934	130.00
		1 gal.	210-0935	480.00
D.	Silver Plating	1 qt.	210-0942	32.60
		1 gal.	210-0943	121.50
E.	Bright Nickel	1 qt.	210-0952	29.00
		1 gal.	210-0953	107.50
F.	Nickel-Free*	1 qt.	210-0944	31.45
		1 gal.	210-0945	116.80
G.	Copper Strike	1 qt.	210-0936	24.10
		1 gal.	210-0937	89.25
H.	Bright Copper	1 qt.	210-0948	23.15
		1 gal.	210-0949	85.40
I.	Bright White	1 qt.	210-0954	16.75
		1 gal.	210-0955	60.95
J.	Black Plus	1 qt.	210-0959	26.75
		1 gal.	210-0958	99.00

*Hypoallergenic

Prices change with current market value.

K. EarthGold Stripper

Strips gold deposits from rhodium, nickel, stainless steel and steel. Do not use on silver for an extended period of time.

	Description	Qty.	Item#	Each
K.	Stripper	1 qt.	210-0940	$15.25
		1 gal.	210-0941	61.30

L. EarthGold Electrocleaner

Provides a completely clean, contaminant-free metal surface prior to electroplating.

	Description	Qty.	Item#	Each
L.	Electrocleaner	1 lb.	210-0946	$9.80
		3 lbs.	210-0947	29.75

M. EarthGold Acid Activator

Provides excellent oxide removal and etching properties to help metals bond better when electroplating. Effective on white metals, brass, bronze, nickel, stainless steel, steel, silver and gold. Do not use on zinc.

	Description	Qty.	Item#	Each
M.	Acid Activator	1 lb.	210-0938	$8.85
		3 lb.	210-0939	24.20

Gesswein® Rhodium Solutions

Gesswein offers two types of Rhodium: our own Gesswein brand made in the USA and Umicore TD imported from Germany. Gesswein brand is the traditional white rhodium popular in the American market and has the distinct advantage of being very easy to use. Umicore TD is internationally known as the brightest whitest rhodium and is preferred by the international market. Due to volume purchases, we have extremely competitive prices on Umicore TD Rhodium. Both brands are bright, white and tarnish-resistant. Rhodium can be directly plated on gold, copper and copper alloys, nickel and nickel alloys. When plating over non-precious metals, an intermediate nickel coating of many microns thickness is absolutely essential. Strike nickel or gold plating is advantageous with all substrates. **Rhodium prices fluctuate with metals market.**

A

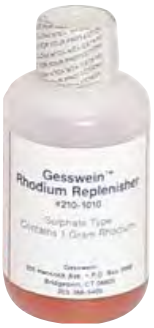
B

C

No Hazardous shipping surcharge

D

See pp. 263, 268 for Pen Plating Solutions.



E

A-D Gesswein® White Rhodium Solution

This sulfate-type rhodium solution produces a whiter finish than phosphate-type solutions and has the distinct advantage of being very easy to use. Gesswein brand Rhodium requires no heating of the solution, no deionized water and minimal pre- and post-treatment. Made in USA.

It's available in three concentrations from ready-to-use Premix, to Concentrate, and Super-Concentrate. Each produces the same great results but varies in convenience, versatility and shipping rates. All three concentrations use the same Gesswein Replenisher (below) which restores rhodium and acid to the bath as it depletes after use.

Premix is not concentrated so it's ready to use right out of the bottle. Just pour it in your beaker and start plating. Because the bottle contains 1 pint of acidic liquid (with 1 gram of dissolved Rhodium), it is incurs an additional shipping fee from UPS called a Hazard Charge. It's most economical to order multiple bottles because they can ship in one box with one Hazard Charge.

	Description		Rh Content	Item#	EACH Prices 1	2+
A.	Premix (Bath Plating, 1pt	Ⓢ	1g	**210-1018**	**$89.50**	**$85.03**

Concentrate requires mixing with your own distilled water which can be purchased at most grocery stores. Concentrate is offered in 2 bottle sizes: 1 gram of Rhodium in 4 oz. liquid and 5 grams of Rhodium in 6½ ounces of liquid. Both are subject to the UPS Hazard Charge.

	Description		Rh Content	Item#	EACH Prices 1-2	3+
B.	Concentrate (Bath and Pen Plating)	Ⓢ	1g	**210-1000**	**$79.50**	**$73.14**
C.	Concentrate (Bath Plating)	Ⓢ	5g	**210-1016**	**371.00**	**-**

Super-Concentrate is Rhodium dissolved in just 1 ounce of liquid making it eligible for standard UPS Ground shipping with no additional hazard charge. Mix it with 1 pint of distilled water or purchase it as a set which includes a bottle of distilled water. Stir the contents of the Super-Concentrate into the pre-measured bottle of distilled water, pour into a beaker, and you're ready to plate. Super-Concentrate is also available in a ½ gram size when you need only a small bath.

	Description		Rh Content	Item#	Each
	Super-Concentrated Solution	Ⓗ	1g	**210-0966**	**$84.00**
D.	Super-Concentrated Standard Set (Rh, distilled water)	Ⓗ	1g	**210-0961**	**84.00**
	Super-Concentrated Small Set (Rh, distilled water)	Ⓗ	½g	**210-0978**	**45.00**

Rhodium is non-returnable. Prices change with current market value.

E. Gesswein® Rhodium Replenisher

Use to replenish rhodium and other chemicals to your Gesswein white rhodium bath as it depletes after use. Super-Concentrated Replenisher consists of just 1 ounce of liquid making it eligible for standard UPS Ground shipping with no additional hazard charge. Do not use rhodium solution to replenish; doing so will upset the bath's chemical balance. Use our Rhodium Test Kit (p. 265) to determine correct amount of replenisher to use. Replenisher can also be used for pen plating.

	Description		Rh Content	Item#	EACH Prices 1-2	3+
E.	Replenisher	Ⓢ	1g	**210-1010**	**$79.50**	**$73.14**
	Replenisher	Ⓢ	5g	**210-1017**	**371.00**	**-**
	Super-Concentrated Replenisher Solution	Ⓗ	1g	**210-0976**	**84.00**	**-**

Prices change with current market value.

Ⓗ *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

Ⓢ *UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.*

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Umicore RHODUNA® TD

The world's brightest and whitest rhodium and black ruthenium too!

Rhodium suppliers all SAY their rhodium is the whitest and brightest, but only Umicore can PROVE it. Measured by spectrophotometer, only Umicore RHODUNA TD is as bright as pure rhodium (89.5–90 on the lightness scale), while other brands fall short (86–90). Test results were independently verified by CIE-Lab. There is simply no whiter rhodium available on the market. In addition, Umicore RHODUNA TD also plates thicker (0.5µm) than other brands (0.3µm)—almost twice as thick for roughly twice the wear resistance.

Rhodium Plating Guidelines for Best Results. Look under the Operating Instructions Tab.

Umicore RHODUNA TD features sulfate-based formula with high deposition capacity, good plating speed and exceptional throwing power. Packaged in shrink-sealed plastic bottles for protection and security. Choose from concentrated solution for rack and barrel plating or pen plating straight out of the bottle, convenient premixed solution for bath plating and replenisher for restoring depleted baths.

Black concentrated solution now available, as well — see below.

A. Umicore TD "Brilliant White" Rhodium Solution

Concentrated Umicore TD from Germany is our best selling rhodium because it is the whitest available. Umicore TD is the rhodium of choice for the international and domestic markets. Features a sulfate-based formula with high deposition capacity, good plating speed and excellent throwing power.

Supplied two ways:

Concentrate which contains 2 grams of rhodium in approximately 6 ounces of liquid. Can be used right from the bottle for pen plating. Can be diluted with deionized or distilled water for bath plating by rack or barrel.

Premix ready-to-use solution contains 1 gram rhodium in 1 pint liquid. For bath plating only, can not be used for pen plating.

Both Concentrate and Premix incur an additional shipping fee from UPS called a Hazard Charge. It's most economical to order multiple bottles because they can ship in one box with one Hazard Charge. Use only Umicore Replenisher (below) to restore the balance of the bath.

	Description		Rh Content	Item#	EACH Prices 1-2	3+
A.	White Concentrate Solution	$	2g	**210-1031**	**$158.39**	**$147.30**
	White Premix Solution, 1pt	$	1g	**210-1033**	**85.06**	**79.11**

Rhodium is non-returnable. Prices change with current precious metals market.

B. Umicore TD Rhodium Replenisher

Use to restore rhodium to your Umicore TD rhodium bath as it becomes depleted. Do not use rhodium solution to replenish; doing so will upset the bath's chemical balance.

	Description		Rh Content	Item#	EACH Prices 1-2	3+
B.	Replenisher	$	1g	**210-1032**	**$91.18**	**$84.80**
	Replenisher	$	5g	**210-1034**	**371.00**	**-**

Rhodium is non-returnable. Prices change with current precious metals market.

C, D Umicore Ruthuna Black 475 Ruthenium Plating Solution

Darker than black rhodium

Umicore Ruthuna plates darker than black rhodium because it contains ruthenium, another member of the platinum family. Plates a very dark gray (anthracite) color, almost black. Can be used alone or as a contrast color on both yellow and white metals. For bath plating only, use Ruthuna 279 (below) for pen plating.

4 oz. bottle has 100ml of solution containing 2 grams of ruthenium. To make a 1 liter bath, stir contents of bottle into 800ml deionized or distilled water. For proper adhesion it is strongly recommended to plate Black Ruthenium 475 over an undercoat of 18k gold. Contains 2 grams of ruthenium, a member of the platinum family.

Specially formulated for pen plating, Ruthuna 279 plates a very dark gray (anthracite) color, almost black. Contains 2 grams of ruthenium, a member of the platinum family. Can be plated directly over gold, gold plate, silver, platinum and palladium. When plating over non-precious metals, plate the item with gold prior to using Black Ruthenium. Ruthuna 475 is for bath plating only, while Ruthuna 279 is highly concentrated for pen plating only.

	Description		Ru Content	Item#	Each
C.	Ruthuna 475 Bath Plating Solution	$	2g	**210-1036**	**$82.90**
D.	Ruthuna 279 Pen Plating Solution	$	2g	**210-1037**	**82.50**

Rhodium is non-returnable. Prices change with current precious metals market.

Bath Specifications:

Plating Speed	0.06µm/min.
Max. Coating Thickness	0.5µm
Throwing Power	77%
Anode Type	Platinum-clad
Operating Temperature	68-149°F (20-65°C)
Optimal Plating Temp.	105°F (40°C)
Voltage Range	2-3V

See pp. 262, 268 for more Rhodium Pen Plating Solutions.

A

B

C

D

Plating Sample

$ UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.

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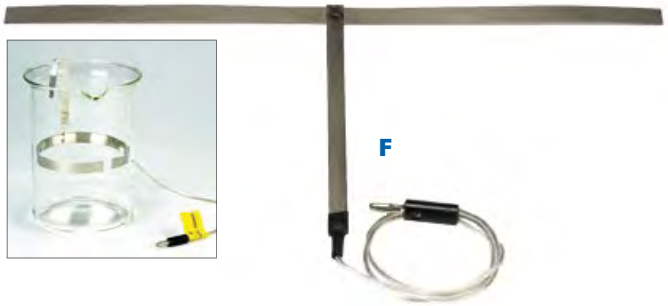

A-F Anodes

Used to introduce electrical current and to replenish metal ions into plating baths. Stems of all standard anodes can be bent to hang on edges of Pyrex beakers (dimensions given do not include stems).

Types:

- Soluble: Copper, nickel and silver anodes dissolve in the bath, replacing metal ions as they are deposited onto the workpiece during plating.
- Inert: Stainless steel and platinum-clad anodes do not dissolve in the plating bath. Serve to introduce electrical current into bath. *Note:A stainless steel beaker can be used as an inert anode.*

	Description	Size (L x W)	Item#	Each
A.	Copper Anode	6" x 1"	**210-2500**	**$6.30**
B.	Nickel Anode (depolarized)	6" x 1"	**210-2551**	**7.25**
C.	Silver Anode (fine)	5" x 1"	**210-2650**	**56.00**
D.	Stainless Steel Anode	6" x 2"	**210-2700**	**9.75**
E.	Platinum-Clad Niobium Anode*	4" x 1"	**210-2600**	**129.50**
	Stainless Steel "T" Anode	4" x 12"	**210-2710**	**13.00**
F.	Platinum-Clad Titanium "T" Anode	4" x 12"	**210-2610**	**63.50**

**Performs as well as solid platinum for rhodium and gold plating. Consists of niobium clad at heavy gauge with 99% pure platinum, cold-rolled to a uniform thickness and meshed to expose more surface area. Because of mesh form and high conductivity (3.5 times more than platinized titanium anodes), this platinum-clad anode provides better current distribution for more uniform plating. Costs less than solid platinum and lasts longer than electroplated anodes.*

G. Umicore Platinum Anode Systems

Provides current from 2 directions giving a more even and uniform rhodium plate. Sets contain 2 mesh type platinum coated anodes and a titanium holder. Made in Germany.

	Description	For Beaker Size	Anode Size	Item#	Each
G.	Platinum Anode System 500	500/600ml	3½" x 1 3/16" (2)	**210-2612**	**$151.25**
	Platinum Anode System 1000	1000ml	4" x 1½" (2)	**210-2617**	**149.00**

Prices change with current precious metals market.

H, I Plating Thermometers

Two different types for measuring stripping and plating bath temperatures. Help eliminate guesswork to improve results. Include metal clip for easy attachment to edges of beakers. Glass type reads up to 220°F or 100°C (has both scales). Stainless steel dial type reads from 50 to 400°F. Measures 8" long.

	Description	Item#	Each
H.	Glass Thermometer	**210-2310**	**$7.25**
I.	Stainless Steel Dial Thermometer	**210-2255**	**15.95**

J. Copper Work Wire

Soft 24-gauge copper wire for holding items to be stripped or plated. Sold in ½ lb. spool.

Description	Item#	Each
Copper Work Wire	**210-2100**	**$12.95**

K. Tenaris Pro Premixed Anti-Tarnish Dip - Premixed ready to use

Tenaris Pro represents the new borderline in the field of anti-tarnish solutions for silver, gold, brass and bronze. It protects items by depositing an extremely thin organic coating on the surface, strong enough to protect against environmental chemicals and is completely invisible. It does not alter surface color or reflectivity and cannot be detected by touch. Internal laboratory tests observed that silver pieces treated with Tenaris Pro do not tarnish when exposed to hydrogen sulfide vapors for more than 65 hours. Easy and fast to use, it doesn't require any specific equipment for plating and possesses low resistance to wearing and scratching. It is therefore particularly recommended for the protection of finished pieces during storage in the display case, safe and shop window.

Features:

- Works by simply dipping. No plating equipment is required
- Easy to use
- Low toxicity not dangerous to the environment (does not contain chromium)
- Can be easily removed from the surface

Description	Qty.	Item#	Each
Tenaris Pro Premixed Solution	1L	**210-1360**	**$28.50**

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A. Gesswein® Electrocleaner Powder

Removes fingerprints, grease and similar contaminants from the plating surface without removing metal. Promotes optimal adherence of electroplating deposits. Especially useful in place of electrostripping on jewelry parts that are too delicate to withstand metal removal. Sold in a 3 lb. jar, which makes 32 qts. of electrocleaning solution. Cyanide-free. Use with stainless steel beaker or with Pyrex beaker (see beakers on p. 266) and stainless steel anode (see pp. 264).

Description	Item#	Each
Electrocleaner Powder ($)	**210-3300**	**$22.80**

($) UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.

A

B. Carbon Treatment Sets for Rhodium Baths

It eventually happens to every plater: rhodium comes out looking gray instead of white. The usual culprits? Organic contaminants introduced to your plating bath from wax or other stop-offs, electrocleaner or soap, dust or dirt. Once dissolved, these contaminants can't be removed by sieving or straining.

Each money-saving Carbon Treatment Set uses activated charcoal to absorb contaminants so you can filter them out and restore the bath to like-new condition rather than discard it. Includes charcoal (3 oz. in standard set, enough for approx. 48 one-liter bath treatments; 11 oz. in large set, enough for approx. 176 one-liter bath treatments), funnel, treatment tank with cover, glass stirring rod, filtration tank, filter paper and instructions. Use for monthly preventive maintenance and emergency situations. Excellent for gold plating baths. *Note: Will not remove metal contamination, such as that from soft solder.*

	Description	Item#	Each
B.	Standard Set	**210-2020**	**$69.95**
	Large Set	**210-2124**	**117.00**

B

C. Rhodium Test Kit

As your rhodium bath is used, it depletes rhodium as well as other important chemicals. Our Rhodium Test Kit helps you determine when to add replenisher so you can restore the bath to its original condition. Saves money by ensuring you add just enough replenisher, not too much. Easy to use. Includes complete instructions, control and sample vials, pipette and test block. Designed for use only with our rhodium solutions (#210-1000, #210-1016, #210-1018, #210-0978, #210-0966 and #210-0961. See p. 262).

Description	Item#	Each
Rhodium Test Kit	**210-2000**	**$59.50**

C

D. PD2 Palladium Plating Solution

Ready-to-use palladium plating solution especially designed for flash plating. Features highly compact consistency and resistance of the galvanic layer, making it particularly suitable for pre-rhodium treatment on low-karat gold and silver articles. Also serves as a tough barrier against diffusion of gold deposits on copper and copper alloys. Ideal for use as an intermediate layer between rhodium and white gold, reducing the possibility that scratches and abrasions of the rhodium-plated layer will affect the alloy underneath — very important to prevent release onto skin of white gold alloys containing nickel. Sold by the liter.

Features:

- Cyanide-free
- 2g/L concentration
- Room-temperature plating—no heater required
- Premixed solution—UPS shippable with no hazardous charges
- Nontoxic and noncorrosive
- Neutral pH

Description	Qty.	Item#	Each
PD2 Solution	1L	**210-1350**	**$215.00**

D

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A

A. Electric Hot Plates

Choose from single and double models. The double model saves precious plating time by heating two baths simultaneously (includes separate temperature controls). Feature durable chrome tops for resistance to scratching and marring and lift-out heating elements for fast, easy cleaning. Made in USA. ***Note: You must provide insulation such as a Solderite Pad (see pp. 507) between stainless steel beaker and hot plate during plating to prevent your rectifier from shorting out.***

Specifications:	Single	Double
Electrical	120V, 6A, 700W, 60Hz	120V, 12A, 1400W, 60Hz
Dimensions	8½"W x 8½"D x 3¼"H	17"W x 9¾"D x 3¼"H

	Description	Item#	Each
	Single Electric Hot Plate	**212-2051**	**$59.50**
A.	Double Electric Hot Plate	**212-2050**	**95.00**

B

B. Stainless Steel Beakers and Covers

Stainless steel beakers act as anodes for electrostripping and electroplating—just attach your lead wire directly to the lip of the beaker. Stainless steel covers protect solutions. There is no cover available for 0.6 quart beaker.

Description	Size (I.D. x H)	Item#	Each
0.6 qt. Beaker	3¼" x 4½"	**210-2954**	**$61.10**
1¼ qt. Beaker	4" x 5½"	**210-2955**	**21.95**
2 qt. Beaker	4¾" x 6¾"	**210-3000**	**24.50**
4¼ qt. Beaker	6½" x 7⅝"	**210-2957**	**32.65**
8½ qt. Beaker	8" x 9½"	**210-2959**	**51.80**
1¼ qt. Cover		**210-2969**	**12.40**
2 qt. Cover		**210-3150**	**13.30**
4¼ qt. Cover		**210-2967**	**16.25**
8½ qt. Cover		**210-2965**	**18.90**

C

D

C, D Pyrex Beakers and Covers

Pyrex beakers feature graduations for fast and accurate liquid measurement and spouts for easy pouring. Available in four sizes. Pyrex covers let you heat and store solutions in the same containers. Plastic covers provide tight seals to prevent solution evaporation.

	Description	Item#	Each
	250ml Beaker for small bath	**210-2749**	**$6.65**
C.	600ml Beaker for half-pint bath	**210-2750**	**8.85**
	1,000ml Beaker for pint bath	**210-2800**	**16.90**
	1,500ml Beaker for quart bath	**210-2850**	**20.25**
	600/1,000ml Pyrex Cover	**210-2900**	**8.35**
	1,000/1,500ml Pyrex Cover	**210-2950**	**10.35**
D.	600ml Plastic Cover	**210-2952**	**5.25**
	1,000ml Plastic Cover	**210-2953**	**5.50**

E F

E, F Ribbed Glass Funnel and Filter Paper

Use together for filtering impurities from plating baths. Funnel features ribbed design for better flow of solution. Measures approx. ¼" thick. Paper measures 13" in diameter.

	Description	Item#	Each
E.	Ribbed Glass Funnel	**210-2450**	**$38.95**

	Description	10pc	Item#	EACH Prices 10-90	100+
F.	Filter Paper	10pc	**210-2400***	**$1.75**	**$1.40**

10pc *10-piece minimum; please order in multiples of 10.*

G

G. Plastic Stirring Rod

For mixing your electrocleaning, electrostripping and electroplating baths. Will not react with solutions. Measures ½" dia. x 12"L.

Description	Item#	Each
Plastic Stirring Rod	**210-2460**	**$4.15**

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A. Rhodinette Pen Plater

Create exciting two-tone effects and make touch-up repairs with our Rhodinette Pen Plater. Takes just minutes to learn how to use like an expert. Features highly absorbent, hard fiber electrode tips that can be easily shaped and will plate the most delicate details and contours with an even deposit of metal (masking may be unnecessary). Plating solutions and concentrates sold separately. Electrical: 110V, 1A, 50/60Hz. Measures 5½"W x 6¾"D x 2½"H. Made in Germany.

Includes:

- Compact rectifier base with recesses for holding up to three pens and three plating solutions (not included)
- Plating pen (anode) with six regular felt tips
- Smooth-jaw alligator clip with lead wire (cathode)
- Glass jar with cover for holding plating solution
- Stand for supporting wires

	Description	Item#	Each
A.	Rhodinette Pen Plater	**212-0900**	**$699.00**
	Plating Pen	210-2105	246.00
	Black Lead Wire	210-2110	54.00
	Glass Jar with Cover (color may vary)	210-2107	27.00

A

B. PEPETOOLS Digital Pen Plating System

Compact system with precise voltage regulator and clear digital readout. Lets you dial in exact voltage needed from 1.2–17V for perfect results. Plating solutions and concentrates sold separately. Electrical: 110/220V. Measures 4½" wide. Made in Europe.

Includes:

- Compact rectifier base with recesses for holding up to two pens and three different plating solutions (not included)
- Plating pen with three felt tips
- Alligator clip with lead wire
- Three plating jars with twist-off lids for avoiding spills.

Description	Item#	Each
Digital Pen Plating System	**212-0721**	**$195.00**
Replacement Plating Pen	212-0714	35.50

B

C. Wizard Disposable Rhodium Pen Plater

Self-contained pen plater without any knobs to set. Simply soak fiber tip in your plating solution, attach alligator clip to workpiece and plate. Discard when plating results decline.

		EACH Prices		
Description	Item#	1-5	6-11	12+
Disposable Rhodium Pen Plater	**212-0707**	**$17.60**	**$15.84**	**$15.31**

C

D. Safety Solutions – *By MJSA*

Every jewelry operation poses numerous hazards that, if overlooked, could lead to injury, illness or even death. This manual provides jewelers with easy-to-understand guidelines to avoid such outcomes. Explains how to properly store and work with chemicals, dispose of hazardous waste, establish safe working conditions and comply with all federal, state and local codes. Softcover, 64 pages.

Description	Item#	Each
Safety Solutions	**811-0393**	**$28.99**

D

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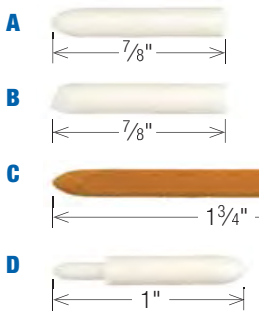

A-D Felt Tips for Plating Pens

Solid compact tips that can be custom-shaped for any pen plater.

	Description	Item#	PKG. of 12 1-2	3+
A.	Regular Tips	210-2102	$6.25	$5.31
B.	Chisel Tips	210-2103	6.80	5.78
C.	Double-Ended Regular Brown Tips	210-2115	8.50	7.23
D.	Double-Ended Point/Bullet Tips	210-2112	6.95	5.91

E-G Cohler EARTHCOAT™ Gold Pen Plating Solutions

These cyanide-free solutions deposit a resilient flash plate of gold on nickel, sterling silver, rhodium, gold and most other similar metals. Allow very easy control of color due to their excellent combination of brighteners, which offer excellent coverage and leveling ability.

	Description	Au Content	Item#	Each
E.	14K	1 dwt.	210-0926	$79.00
F.	18K	1 dwt.	210-0927	82.00
G.	24K	1 dwt.	210-0928	82.00

Prices change with current market value.

H, I Cohler White + Black Rhodium Pen Plating Solutions

	Description		Rh Content	Item#	Each
H.	Bright White	Ⓢ	1/4g	210-1021	$39.00
I.	Deep Black	Ⓢ	1/4g	210-1022	46.00

Prices change with current market value.

J, K Gesswein White + Black Rhodium Pen Plating Solutions

Our USA made rhodium solution specially formulated for high-speed pen plating. Contains ½ gram of rhodium in 33.3 ml of solution. Has less acid than regular concentrate for a thicker application while producing less fumes for operator. Do not dilute. For pen plating only.

	Description		Rh Content	Item#	Each
J.	White	Ⓗ	1/2g	210-1002	$65.80
	White	Ⓢ	1g	210-1000	79.50
K.	Black	Ⓗ	1/2g	210-0977	93.00

Prices change with current market value.

See pp. 260-263 for more Rhodium Solutions.

L, M Stop-Off Lacquer

A specially prepared lacquer for masking in preparation for spot plating. Especially useful when creating a two-tone effect. Remove with acetone, lacquer thinner or steam.

	Description		Qty.	Item#	Each
L.	Stop-Off Lacquer	Ⓗ	2 oz.	210-1250	$4.75
M.	Stop-Off Lacquer	Ⓗ	1 qt.	210-1255	39.00

N. Earring Post Protectors

These silicone rubber sleeves protect ear posts when setting, tumbling or plating. Sold by the gross (144 each).

Description	Item#	GROSS Prices 1-49	50+
Earring Post Protectors	852-1150	$3.49	$2.62

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Ⓢ *UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.*

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A. Background Antique and Aul Solvent

Background Antique provides dramatic highlighting and subtle dark background effects. Imparts a matte, nonreflective antique finish to class rings. After final polishing or plating, apply with a soft hair brush, and let dry for a few minutes. If desired, wipe lightly with a lint-free cloth dipped in Aul Solvent to remove coloring from high spots and leave behind an oxidized finish. For long-lasting results, allow to dry for 24–48 hours after highlighting. Sold individually and in a money-saving kit that includes 2 oz. bottle of Black Antique and 2 oz. bottle of Aul Solvent.

Description		Qty.	Item#	Each
Black Antique	(H)	2 oz.	**210-1300**	**$14.60**
Black Antique	(H)	1 qt.	**210-1305**	**63.00**
Brown Antique	(H)	2 oz.	**210-1320**	**14.60**
Brown Antique	(H)	1 qt.	**210-1325**	**63.00**
Aul Solvent	(H)	2 oz.	**210-1410**	**6.65**
Aul Solvent	(H)	1 qt.	**210-1415**	**38.85**
Black Antique Kit	(H)	2 oz. Black Antique, 2 oz. Aul Solvent	**210-1301**	**29.35**

A

B. Liver of Sulphur XL Gel

Real liver of sulphur in premixed gel form, which is much easier to work with. Ready to use after a quick shake (heat up for 15 seconds in a microwave to lessen viscosity if too cold to stir), XL Gel can be brushed on and is thick enough not to run. Convenient dispensing bottle lets you squeeze out just the right amount. Or squeeze out a small drop directly onto a brush. Minimizes odor, reduces waste. Imparts a patina on silver, copper, bronze and more. Mix one teaspoon in 12 oz. of heated water to make dark patina solution, less to make light patina solution. Boasts 4–5 times longer shelf life than dry liver of sulphur. 4 oz. XL Gel makes 24 portions 12 oz. solution.

Description	Item#	Each
Liver of Sulphur XL Gel, 4 oz.	**210-1451**	**$14.95**

B

C. Liver of Sulphur

Use this product to permanently antique silver and copper. Will not rub off or disappear during ultrasonic or steam cleaning. Just mix a small amount with ordinary tap water in a Pyrex beaker, immerse or paint your jewelry, and watch it turn from brown to blue/green to light gray then dark gray. Stop process when the appropriate color has been obtained by rinsing jewelry thoroughly. For antique effect, buff selected areas to bright shine and leave background dark. Requires no anode. Not suitable for antiquing gold because there is no noticeable effect. Sold in ½ lb. container.

Description	Qty.	Item#	Each
Liver of Sulphur	½ lb.	**210-1450**	**$22.80**

C

D. JAX Green Antique

Chemical darkener for producing an antique green patina on brass, bronze and copper. Apply to clean metal surface with a bristle brush or immerse entire object. The initial coat is critical: when a dull film appears, that indicates the patina has reacted to the metal. Additional coats can be applied if desired (allow complete air drying in between coats).

Description	Qty.	Item#	Each
Green Antique	1 pt.	**210-1430**	**$14.40**

D

E. JAX Black Antique

Chemical darkener for producing an antique black patina on brass, bronze and copper. Apply to clean metal surface with a bristle brush or immerse entire object. Rinse well with water and dry. To achieve desired finish, highlight with steel wool or Scotch-Brite. You can also over-darken and then relieve with steel wool or polishing cloth.

Description		Qty.	Item#	Each
Black Antique	($)	1 pt.	**210-1431**	**$15.10**

E

F. JAX Black Antique for Silver

Chemical darkener for producing an antique black patina on silver and gold. Apply to clean metal surface with a bristle brush or immerse entire object. Rinse well with water and dry. To achieve desired finish, buff with rouge. When using on gold, preheat metal before applying solution.

Description		Qty.	Item#	Each
Black Antique for Silver	($)	1 pt.	**210-1432**	**$15.05**

F

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A

A. 3M™ Half-Facepiece Respirator

Protects you from dusts, mists and airborne contaminants. NIOSH rated N95 for protection from respirable silica (in investment, tripoli and more). Also suitable for rhodium plating. Features a soft, pliable silicone face seal for a secure, gap less fit on most every face shape. Extremely comfortable to wear, especially for extended periods of use. Features roomy nose chamber and special 3M Cool Flow valve to ensure easy natural breathing while reducing heat and condensation in the face piece. Complete respirator includes face piece, two deluxe cartridges, two deluxe pre filters and two retainer rings. NIOSH approved.

	Description	Item#	Each
A.	Half-Facepiece Respirator	**805-1035**	**$51.40**
	Deluxe Cartridges, pair	805-1036	15.05
	Deluxe Pre filters, pair	805-1037	4.00
	Retainer Rings, pair	805-1038	5.25

See pp. 472, 474 for more Respirators and Gloves.

B

C

B, C Neoprene Apron and Sleeves

Heavy-duty double-coated yellow neoprene apron and sleeves for frontal body and lower-arm protection from a wide range of chemicals, including caustics and solvents. Apron features extra-long neck and waist ties. Weighs 12½ oz. Recyclable. Sleeves feature elastic cuffs on both ends for secure fit. Sold by the pair.

	Description	Item#	Each
B.	Apron, 35"W x 45"L	**827-1509**	**$29.95**
C.	Sleeves, pair, 18"L	**827-1510**	**9.20**

See more Aprons on page 573.

D

D. MicroFlex® NeoPro® EC Polychloroprene Gloves – Latex-free!

NeoPro EC combines the barrier protection of a synthetic with the fit and feel of natural rubber latex while eliminating the possibility of latex allergic reaction. Resists a broad range of hazardous substances. Provides almost twice the puncture resistance of latex. Ideal for electroplating, electrocleaning and most other plating tasks. Ambidextrous with extended, beaded cuff and textured fingertips for great grip in wet or dry conditions. Powder-free and polymer-coated for easy donning. Length: 11¾". Thicknesses: 8.3mil finger, 6.3mil palm, 4.7mil cuff. Color: green. Sold in dispenser box of 50.

Description	Item#	Box of 50
Small	**805-1052**	**$26.75**
Medium	**805-1051**	**26.75**
Large	**805-1050**	**26.75**

E

E. MicroFlex® UltraSense™ Nitrile Gloves – Latex-free!

UltraSense combines the barrier protection of a synthetic with the fit and feel of natural rubber latex while eliminating the possibility of latex allergic reaction. Resists a broader range of hazardous substances than latex too. Highly elastic for increased comfort and reduced fatigue. Ideal for electroplating, electrocleaning and most other plating tasks. Ambidextrous with beaded cuff and textured fingertips for great grip in wet or dry conditions. Powder-free and polymer-coated for easy donning. Length: 9⅝". Thicknesses: 5.1mil finger, 3.5mil palm. Color: blue. Sold in dispenser box of 100.

Description	Item#	Box of 100
Small	**805-1072**	**$24.75**
Medium	**805-1071**	**24.75**
Large	**805-1070**	**24.75**

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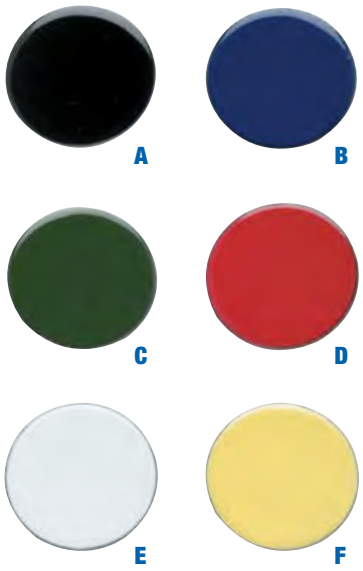
A-F Thompson Enamel

High-quality lead-free 80 mesh enamel for gold, silver and copper. Medium fusion temperature: 1,450–1,500°F. Sold in 2 oz. bottles with mesh screen tops for sifting and in money-saving sets.

Opaque Enamel, 2 oz.	Item#	Each
A. Black	821-3001	$11.85
B. Blue	821-3002	11.85
C. Green	821-3003	11.85
D. Red	821-3004	11.85
E. White	821-3005	11.85
F. Yellow	821-3006	11.85
Transparent Enamel, 2 oz.	**Item#**	**Each**
Black	821-3040	$11.85
Blue	821-3038	11.85
Green	821-3037	11.85
Red	821-3039	11.85
White	821-3041	11.85
Yellow	821-3036	16.10
Enamel Set	**Item#**	**Each**
Opaque (one of each)	821-3000	$57.95
Transparent (one of each)	821-3035	59.95



G. Thompson Undercoat White Enamel

Opaque white 80 mesh enamel frequently used as an undercoat on jewelry metals before applying transparent enamels. Provides low acid resistance. Medium fusion temperature: 1,450–1,500°F. Sold in 2 oz. plastic jar with mesh screen top for sifting.

Description	Qty.	Item#	Each
Undercoat White Enamel	2 oz.	821-3310	$11.85

H. Thompson Clear Flux Enamel

Clear 80 mesh flux for transparent enameling over gold, silver, copper and more. Medium fusion temperature: 1,450–1,500°F. Sold in 2 oz. plastic jar with a mesh screen top for sifting.

Description	Qty.	Item#	Each
Clear Flux Enamel	2 oz.	821-3007	$11.85

I. Thompson Klyr-Fire

Nontoxic adhesive agent for enameling. Paint onto metal, then sift the enamel onto the wet surface, and the enamel adheres fully, even to domed surfaces. Dry thoroughly with heat lamp or air dryer before firing. Sold in 16 oz. bottles.

Description	Qty.	Item#	Each
Klyr-Fire	16 oz.	821-3072	$9.50

J-L Hot Plate Furnace for Enameling

A popular compact hot plate furnace that's great for beginners. Perfect for enameling jewelry items up to 3" in diameter. Made of stainless steel and cast aluminum with an asbestos-free heating plate. Ample lid opening allows a clear viewing of enamel, helping to prevent over- and under-firing. Requires one hour of preheating before use. Electrical: 120V, 900W. Measures 7¼" dia. x 6"H including lid.

Description	Item#	Each
J. Hot Plate Furnace	265-1325	$270.00
K. Single-Piece Trivet	821-3070	14.30
L. Stainless Steel Spatula	821-3071	21.65

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COLORiT

The revolutionary way to add brilliant color to your jewelry!

Add COLORiT ceramic-reinforced composite material to a variety of jewelry and dazzle your customers with its brilliance. When dried with the included curing light, this material cures into a solid polymer network of exceptional strength and durability. Resists both chipping and cracking better than hard-fired enamels. Won't flake and peel like epoxies. Comes in liquid form, making it easy to apply on both flat and curved surfaces. Produces colorfast, nonshrinking design accents.

Use a single color, or mix colors to obtain any hue and shade. Adding White makes them more pastel and opaque, and adding Clear makes them more transparent. Pearl White and Pearl Blue are stunning by themselves, and they create an opalescent or marbleized look when added to any of the other colors. Swirl in some Neon for highlights that actually glow under an ultraviolet light. The possibilities are limited only by your imagination.

Features:

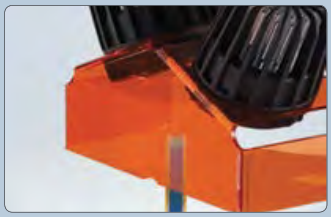
- COLORiT gives your jewelry the look and feel of enamel.
- COLORiT can be inlaid into any precious or nonprecious metal, including platinum, silver and stainless steel. Can even be inlaid into more COLORiT.
- COLORiT colors can be used right next to each other to create a cloisonné look. A few seconds of precuring eliminates color bleed. Colors can also be worked uncured to create artistic effects.
- COLORiT colors can be mixed to create any hue, opaque or transparent.
- COLORiT is colorfast—it won't fade over time.
- COLORiT can be carved, sanded, filed, machined, and lathe-turned at high speeds, sandblasted or polished to a high shine right along with the metal.
- COLORiT is highly resistant to scratching, shock and impact. Bright finishes can be restored with a simple repolishing.
- COLORiT is so durable that it can withstand tumbling, plating and mild ultrasonic, steam and solvent cleaning.
- COLORiT application is easily mastered.
- COLORiT is so versatile, workable and durable, it opens up entirely new design options.

The COLORiT Process

Both a mechanical bond and a chemical bond are required to ensure COLORiT durability and colorfastness. Inlaid areas must be undercut, and proper application and curing instructions must be followed. COLORiT is easy to apply and dries in just minutes under the special curing light. From cleaning to curing, the complete process usually takes no longer than 30 minutes; curing comprises roughly half that time and requires only minor operator attention.

1. Apply Premium bond and let dry.

2. Apply color.



3. Cure with special light source.

4. File, sand, sandblast or polish.

Image courtesy of Heimerle & Meule.

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A

B

A. COLORiT DP2 Starter Set

Add COLORiT to your jewelry and dazzle your customers with its brilliance. It doesn't chip or crack like glass-filled enamels, nor does it flake or peel like epoxies. This ceramic-reinforced composite material is resistant to shrinking, scratching and impact. By means of a special LED curing light, it dries into a solid 3-D polymer network with exceptional strength. Because it comes in a liquid form it's easily applied on both flat and curved surfaces. Gives your jewelry the look and feel of enamel.

Colors can be mixed to create any hue, opaque or transparent. Can be carved, sanded, filed, machined, and lathe-turned at high speeds, sandblasted or polished to a high shine right along with the metal. So durable that it can withstand tumbling, electroplating and mild ultrasonic, steam and solvent cleaning.

Use a single color, or mix colors to obtain any hue. Colors included with each set are of medium saturation, so they appear slightly translucent. White makes the colors more opaque. Clear makes them more transparent. Pearl White looks stunning by itself and creates a pearlescent, marbleized look when added to any of the other colors.

COLORiT Set includes:

- 8 jars COLORiT (Deep Black, Deep Red, Deep Yellow, Deep Green, Deep Blue, Hi Clear, White & Neon Red)
- 4ml Premium Bond
- LED DP2 Curing Light
- Workplate with Heater
- Light-Protected Workstation, 13¾"W x 10"D x 9½"H
- Micro Brush Regular (10)
- Micro Brush Super Fine (10)
- Applicator Tool
- Instrument Holder
- Ring Holder

Description	Item#	Each
COLORiT DP2 Starter Set Ⓗ	**821-3507**	**$2,995.00**

Images courtesy of Annika Bertilsdotter/Sweden.

B. COLORiT Lite Cube 1

The latest advance in COLORiT technology, the Lite Cube is a compact UV curing chamber with adjustable UV levels and fully-lined metal interior to boost UV reflection and insure homogenous curing of all COLORiT colors. With a 7" x 7" curing area, the Lite Cube is idea for curing small jewelry items such as rings, pendants, and bracelets — one at a time or in multiples. Lite Cube includes an industrial safety system which protects the user from UV radiation. Effective, efficient and user-friendly. Larger curing options also available please call for details.

Specifications:

Supply Voltage:	220V (Transformer included for use on 110V)
Power Input:	100 Watts
Overall Dimensions:	13.8"L x 10.2"W x 9.8"H
Curing Area:	7" x 7"

Description	Item#	Each
COLORiT Lite Cube 1	**821-3502**	**$3,595.00**
COLORiT Replacement Bulb, for Lite Cube 1	821-3503	385.00

COLORiT Material, 5-gram Jar	Item#	EACH Prices 1-2	3+
Yellow	**821-3525**	**$69.75**	**$62.78**
White	**821-3521***	**69.75**	**62.78**
Clear	**821-3520***	**69.75**	**62.78**
Hi-Clear	**821-3551***	**69.75**	**62.78**
Deep Black	**821-3584***	**69.75**	**62.78**
Deep Red	**821-3581***	**69.75**	**62.78**
Deep Blue	**821-3580***	**69.75**	**62.78**
Deep Yellow	**821-3582***	**69.75**	**62.78**
Deep Green	**821-3583***	**69.75**	**62.78**
Neon Red	**821-3592**	**69.75**	**62.78**
Neon Blue	**821-3591**	**69.75**	**62.78**
Neon Yellow	**821-3600**	**69.75**	**62.78**
Pearl White	**821-3522**	**69.75**	**62.78**

** 18-gram Jars also available*

COLORiT Accessory	Item#	Each
DP2 Desklight	**821-3509**	**$1,595.00**
COLORiT Set Component	**Item#**	**Each**
Light-Protected Workstation	**821-3575**	**$218.00**
Premium Bond, 4ml Ⓗ	**821-3662**	**275.00**
Bond, 4ml Ⓗ	**821-3663**	**170.00**
Glass Mixing Plate	**821-3565**	**84.00**
Regular Micro Brushes (pkg. of 10)	**821-3558**	**10.75**
Fine Micro Brushes (pkg. of 10)	**821-3559**	**11.75**
Applicator Tool	**821-3570**	**73.65**
Ring Holder	**821-3576**	**60.50**
Instrument Holder	**821-3577**	**42.00**

Images courtesy of Annika Bertilsdotter/Sweden.

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A-N Ceramitation – Resin that cures at a low temperature!

This resin is mixed with a catalyst, then fired at a low temperature to make hard, ceramic-like surfaces similar to kiln-fired enamels in both appearance and physical properties. Simple enough to use for beginners to produce professional work in a short time.

Can be brushed on, sprayed on or applied with a spatula or a squeeze bottle. Apply a single coat, or build up in successive layers to obtain unusual and elegant finishes. Adheres to metal, wood, plastic and ceramic. Cures after being fired at 200°F for one hour by an electric kitchen oven, infrared lamp or forced air blower. Boasts hardness of 60–75 on Sward scale once cured—very close to kiln-fired enamels with hardness of 65–80, which must be fired up to 1,500°F. Can be stoned and polished after curing.

Choose from seven vivid opaque colors and six transparent colors that let the base metal shine through for brilliant jewel-tone effects. Mix colors to obtain an infinite variety of hues. Sold in 2 oz. bottles and in money-saving sets. Opaque set includes all seven colors listed below, transparent clear and a 1-pint bottle of catalyst. Transparent set includes all six colors listed below and a 1-pint bottle of catalyst.

Opaque Ceramitation, 2 oz.	Item#	EACH Prices 1-2	3+
A. Black	821-4204	$6.90	$5.52
B. White	821-4205	6.90	5.52
C. Red	821-4206	6.90	5.52
D. Chinese Red	821-4207	6.90	5.52
E. Blue	821-4208	6.90	5.52
F. Israeli Blue	821-4209	6.90	5.52
G. Yellow	821-4210	6.90	5.52
Transparent Ceramitation, 2 oz.	**Item#**	**EACH Prices 1-2**	**3+**
H. Red	821-4212	$6.90	$5.52
I. Brown	821-4213	6.90	5.52
J. Blue	821-4216	6.90	5.52
K. Green	821-4215	6.90	5.52
L. Yellow	821-4214	6.90	5.52
M. Clear	821-4211	6.90	5.52
Ceramitation Catalyst	**Item#**		**Each**
8 oz. Ⓢ	821-4201		$13.75
1 pint Ⓢ	821-4202		26.99
1 quart Ⓢ	821-4203		37.95
Ceramitation Thinner	**Item#**		**Each**
1 pint Ⓢ	821-4194		$23.75
1 quart Ⓢ	821-4196		33.50
Ceramitation Set	**Item#**		**Each**
N. Opaque Ⓢ	821-4200		$69.99
Transparent Ⓢ	821-4199		58.30

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O

P

Q

O-Q Enameling Stones

Can be used for a wide variety of operations, including imparting a matte finish on enameled objects, removing excess enamel, firescale or contamination between firings and leveling uneven enameled surfaces. Measure 6"L x ½"W x ½" thick.

Description	Grit	Item#	EACH
O. SiC Stone	320	380-0013	$7.13
P. AlO Stone	400	380-0014	7.30
Q. AlO Stone	600	380-0016	9.47

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Roland Engraving Systems

These systems engrave flat and curved surface areas and/or outside and inside flat and slightly domed rings. Use to mark tools, medical devices and data plates or to personalize many common items, including lighters, pens, pendants, rings and more. Compact and quiet — perfect for use in small stores and shops.

For more details & instructional video view www.gesswein.com

A. MPX-90 Impact t

Imprint pictures, photos, logos and text on flat and curved items!

Roland's most powerful impact printer, prints on harder materials and opens to accept larger workpieces than before. Maximum engraving area is 3.1"W x 3.1"D. Imprint pictures, logos and text on flat and curved items. Works well on gold, silver, platinum, copper, brass, aluminum, iron, stainless steel and plastic (surface hardness must be 200 HV or less). Includes center vise, test material, AC adapter, USB cable, software CD and complete instructions. Optional vise fixture kit also available. Made in Japan.

	Description	Item#	Each
A.	MPX-90 Impact Engraver 110~240V	**821-6866**	**$4,995.00**
	Optional Vise Fixture Kit	**821-6868**	**325.00**
	MPX-90 User Replaceable Print Head	821-6867	365.00

B. Roland EGX-360 Premium Desktop Engraver

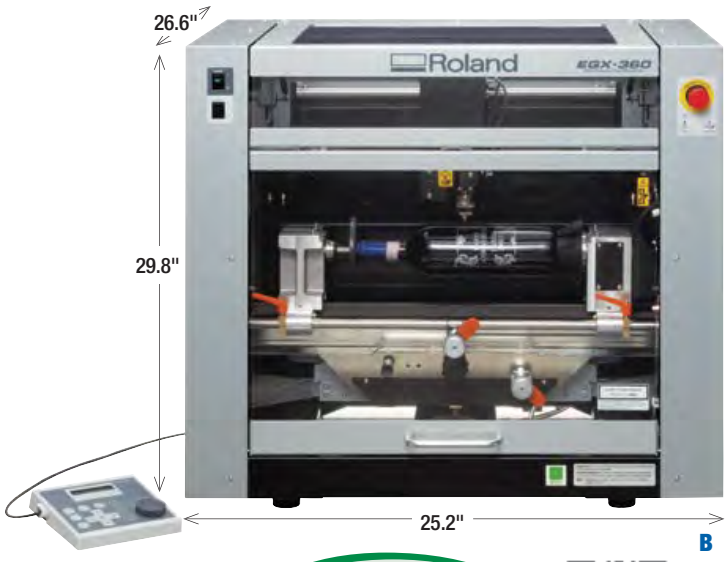
Produce everything from gifts, jewelry and awards to ADA signs and rhinestone decorated apparel. Virtually eliminate the need to outsource, delivering professional results with ultra-fast turnaround times.

Fully enclosed safety cover with fully accessible handles for fixture adjustment, a standalone control panel and an internal LED display that shows the engraving. Recirculating water system enables you to engrave glass without emitting hazardous glass debris in the air.

- Personalize a wide range of gift products including flasks, wine bottles, mugs, wedding sets, cigar tubes and baby products
- Engrave rings (inside & out) using the Optional Ring Attachment
- Quickly produce precise rhinestone patterns for apparel or gifts using R-WearStudio software (included).
- Handle traditional engraving including custom awards, name badges and ADA signs with ease
- Supplied with Dr. Engrave software which uses TrueType fonts and includes an automatic layout function for importing Excel and CSV database files for fast engraving of product serial numbers and nametags. Windows based.

Maximum engraving area: in flat mode is: 12"W x 9"D x 1.5"H, in cylindrical mode 18" x 8" in diameter. Ship weight 250 lbs. Made in Japan.

	Description	Item#	Each
B.	Roland EGX-360 Engraver - 110/220V	**821-6871**	**$18,995.00**
	Roland EGX-360 Ring Attachment	**821-6872**	**1,450.00**



View instructional video at www.gesswein.com.

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BEST BUILT
Jewelry Equipment

BESTBUILT Engraving Systems – Engrave on Alternative Metals!

The newly upgraded **BestBuilt BB50** is a versatile engraver that engraves on pendants, the inside and outside of rings and bangles, pens, watches and more! This truly versatile all-in-one engraver can also create designs and patterns, as well produce logos and images. The BB50 is quiet and compact, and comes complete with MagicArt engraving software. MagicArt is very intuitive and easy to learn and use.

The newly upgraded **BestBuilt UT-RingPro** is the latest ring engraving machine. Will engrave both the inside and outside of rings with beautiful, permanent letters. UT-RingPro includes Magic Art software, which is easy to use and learn.

Created with the Flat/Ring engraver

A BB50

B UT-RingPro

Created with the Flat engraver

Created with the Ring engraver

D

E

BB50 Features:

- Engrave on all metals such as gold, silver, copper and stainless steel.
- Engrave on the inside and outside of rings and bangles. Bangle maximum is 83.5mm.
- Engrave flat objects up to 4" x 4.5"
- Large LCD screen displays status and guides machine use.
- MagicArt software is easy to learn and use.

UT-RingPro Features:

- Engrave on all metals such as gold, silver, copper and stainless steel.
- Engrave on the inside and outside of rings and bangles.
- Engrave multiple lines inside a ring
- Import logos and designs.
- Comfort band are no problem.

Specifications:	A. BB-50 - Flat/Ring	C. UT-Ring Pro - Ring Only
Acceptable Workpieces	Flat and curved items, flat and domed rings inside and outside.	Flat and domed rings inside and outside
Max. Engraving Area:	4½"W x 4"D	–
Electrical:	100~240V 50\60 Hz	100~240V 50\60 Hz
Dimensions:	15.½"W x 14¾"H x 15½"D	10"W x 9 ½"H x 11½"H
Net Wt.	68 lbs.	48 lbs.
Item#	**821-5902**	**821-5904**
Price	**$5,995.00**	**$2,795.00**

	Description	Item#	Each
	Replacement tip (all models)	821-5914	$35.00
D.	Optional Vinyl Dust Cover: 10"H x 12"D X 15"W	**821-5909**	**35.90**
E.	Optional Mighty Bright LED Mini Task Light	**821-5552**	**18.95**
	Optional 120V AC adapter for Mighty Bright	**821-5553**	**9.95**
	Small Jig Assembly for UT-50	**821-5918**	**90.00**
	Large Jig Assembly for UT-50	**821-5919**	**135.00**

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A. BESTBUILT BB70 Computerized Engraver/Cutter

Multifunctional Engraving and Cutting Machine

The BestBuilt BB70 is a multifunctional engraving and cutting machine that engraves on pendants, flat pieces, the inside and outside of a ring or bangle. The BB70 will create beautiful and permanent letters, as well as patterns, quickly and easily. It is also capable of executing 2D cutting on gold, silver, brass, wax, acrylic and wood. If you have the design capability, the BB70 can also create nameplate and monogram jewelry. Advanced users can even do 3D carving in wax. The BB70 includes MagicArt engraving software.

Features:

- Engrave on all metals such as gold, silver, copper and stainless steel.
- Cut on soft metals such as gold, silver, copper, aluminum.
- Engrave on the inside and outside of rings and bangles. Bangle maximum is 93mm.
- Engrave flat, up to 4" x 4.5"
- Large LCD screen displays status and guides machine use.
- MagicArt software is easy to learn and use.

Specifications:

- Flat engraving area: 4" x 4"
- 15,000 RPM
- Dual volt 100~240V, 50/60Hz
- 15" x 13.5" x 12.5"H, 80 lbs.

Capabilities:

- Speed up or slow down the process at the press of a button
- Do single-line, double-line and hatching-style engraving
- Individually assign different tool paths for engraving (e.g., double-line letter followed by hatching-style letter)
- Easily convert images to engrave

Optional Deluxe Nameplate Software is an easy 3-step program containing hundreds of extra fonts, including several specifically designed for nameplates. Built-in templates for nameplate tails, automatic bale creation along with the ability to create circular monograms greatly expands the versatility of your BB70.

	Description		Item#	Each
A.	BestBuilt BB70	*	821-5903	$8,495.00
	Optional Deluxe Nameplate Software		821-5917	1,500.00

** A $35 packaging fee will be added to your order. This allows us to reduce shipping costs for you by shipping this item via UPS/FedEx instead of by truck.*

A UT-75

Visit www.gesswein.com for additional information

B. BESTBUILT Computerized Cutting System

The ultimate system for outstanding cutting and engraving versatility!

Incredibly complex, detailed nameplate jewelry in under 3 minutes! But that's not all—the Name Plate Cutter also produces beautiful metal reliefs, carves 2-D wax models and outside ring surfaces and does outside and inside ring engraving. Features easy-to-use software for fast three-step programming and surface-tracing laser for utmost accuracy. Just enter text, edit and output, and the machine does the rest. You can even copy and paste designs from files created with other software packages to save time. Includes automatic vacuum and coolant collection apparatus for hassle-free operation. Electrical: 100~240V, 50/60Hz. Measures 22"W x 20"D x 19"H. Weighs 114 lbs.

Features:

- Ability to cut nameplate jewelry, create metal reliefs, carve 2-D wax models and handle outside and inside ring engraving
- Easy-to-use software for fast programming.
- Surface-tracing laser for utmost accuracy
- Compatibility with existing designs
- Automatic vacuum and coolant collection apparatus

Specifications:

Max. Cutting Area 12"W x 8"D

Max. Feed Rate 3"/sec.

Spindle Motor 100W brushless DC

Spindle Speed 0–23,000rpm

Computer Requirements:

Intel Pentium 4 PC running Microsoft Windows XP or Vista, 512 MB RAM, CD-ROM drive, USB port.

Description		Item#	Each
Name Plate Cutter		821-5915	$18,900.00

Name Plate Cutter B

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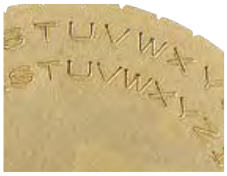
A

B



C

D

A-D Gravograph/New Hermes® RV-II Inside Ring Engraver

Point of purchase engraving makes it easy to close a sale, offers your customers instant gratification and turns each ring into a personalized keepsake.

The RV-II is manufactured by Gravograph (New Hermes), a supplier of engraving machines and accessories used by jewelers worldwide for over 70 years. The RV-II's cast metal design and high precision components ensure that you will produce high quality engraving for generations to come.

With the RV-II you can engrave bright initials, dates or phrases on the inside of almost any shape or size ring easily and quickly. Requires no prior engraving experience – an unskilled operator can engrave up to 20 letters in a few minutes. Results are bright, highly readable and completely professional.

The RV-II will easily engrave on wedding bands or stone-set rings. It automatically centers the ring in the clamping jig. Uniform spacing between letters is easily accomplished by pushing a lever.

A replaceable diamond stylus creates bright lettering with a hand-engraved appearance.

The reversible type dial (included) has 2 different type styles. Gothic is simple but fully readable, while Tilted Block presents a more formal appearance. Also available are the Extra-Condensed and 2 Line Block Dials, as well as a Continuos Script Dial for a more romantic look. Made in France.

	Description	Item#	Each
A.	RV-II Inside Ring Engraver	**821-6980**	**$2,485.00**
B.	RV-II Extra-Condensed Block Dial	**821-6985**	**167.50**
C.	RV-II 2 Line Block Dial	**821-6986**	**167.50**
D.	RV-II Continuous Script Dial	**821-6982**	**320.00**
	Replacement Ring Jig	821-6981	63.00
	Replacement Diamond Stylus Point	821-6956	37.50

E

F

G

H

E-H Inside Ring Engraver

Our easy-to-use inside ring engraver allows you to personalize your customer's purchase on the spot.

Offers bright, legible markings to make every ring a memorable possession. Includes one reversible block type dial and complete instructions. Optional type dials are sold separately increasing the versatility and allowing you to close the sale for many different customers. Made in India.

Features:

- Rugged construction
- Diamond tip
- Automatic X and Y centering
- Reversible dials
- Pressure and depth regulation
- Auto indexing

	Description	Item#	Each
E.	Inside Ring Engraver with Block Dial	**821-6210**	**$495.00**
	Diamond tip Stylus	**821-6211**	**30.00**
F.	Reversible Block Dial (included with the Engraver)	821-6215	125.00
G.	Optional Connecting Block Dial (not included with the Engraver)	**821-6216**	**180.00**
H.	Optional Script Dial (not included with the Engraver)	**821-6217**	**140.00**

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A-D PEPETOOLS Two-Line Horizontal Engraving Machine

Gives you professional results in minutes. Ideal for ID and medical bracelets, watches, charms, lighters, pens, gift items and flat and semicurved items. Features quick-slide vise for holding circular and rectangular plates. Insert set of four brass pins in vise holes to hold thick items. Purchase optional holding attachment set to firmly grasp irregularly shaped items. Includes double-line block type set (1¼") and complete instructions. Optional type sets available (see below). Made in Europe.

Specifications:

Max. Plate Size	4"
Max. Letter Height	4"
Dimensions	14"W x 14⅛"D x 11"H
Ship Wt.	23 lbs.

Features:

- 15 engraving ratios from 2.5:1 to 6:1
- Adjustable two-line combination type slide
- 360° rotating vise with stops at every 45° increment
- Precision diamond stylus

	Description	Item#	Each
A.	Two-Line Horizontal Engraving Machine with Double-Line Block Type Set	**821-7007**	**$722.75**
B.	Double-Line Script Type Set (2¾")	**821-7003**	**276.20**
C.	Single-Line Block Type Set (1¼")	**821-7004**	**207.65**
D.	Holding Attachment Set	**821-7005**	**123.95**
	Replacement Type Set Box	821-7006	13.50
	Replacement Double-Line Block Type Set (1¼")	821-7002	188.60
	Replacement Diamond Stylus	821-7001	33.65

A

Double-Line Block Type Set Included

B
Optional Double-Line Script Type Set

C
Optional Single-Line Block Type Set

D

E, F Brass Practice Rings

Use to practice engraving, bead setting and more. Size 6.

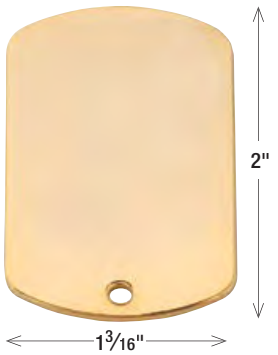
	Description	Item#	Pkg. of 10
E.	Thin (3mm) Rings	**260-3070**	**$19.95**
F.	Wide (8mm) Rings	**260-3071**	**19.95**

E F

G. Brass Practice ID Tags

Practice engraving different ratio adjustments on these 30 x 50mm highly polished ID tag style brass plates. Use to make a master set of templates in a range of ratios so you can easily select the right ratio for every job. 15 gauge with ⅛" (3mm) hole. Sold in packages of 10.

Description	Item#	Pkg. of 10
Brass ID Tag	**260-3072**	**$24.00**



G

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GRS® Systems – For Engraving, Bright Cutting, Bead Raising and Setting.

Designed for beginners and professionals alike, GRS Power Engravers make clean, sharp cuts in precious metals, steels, crystal, glass, stone, wood and other materials. Transform compressed air into powerful impact action for engraving, texturing, carving and more. Backed by a two-year manufacturer's warranty. Made in USA.

A

A. GRS® GraverMax G8™ – Revamped for better performance!

The venerable GraverMax tradition continues with this affordable, compact system. Features adjustable speed of 400–8,000 strokes per minute, adjustable throttle bias for tailoring response to different jobs and advanced valve pulse unit for quiet operation.

Requires air compressor for 1.4 CFM of oil-free air at 45 PSI. Includes foot pedal, dual-stage air regulator, air hoses and quick-disconnect handpiece fittings for all GraverMax handpieces. Measures 5¼"W x 12"D x 8¼"H. Electrical: 100–240V, 50/60Hz. UL, GS, CE and LPS approved. Made in USA.

	Description	Item#	Each
A.	GraverMax G8	856-0311	$1,295.00
	GraverMax G8 w/ #710 QC Handpiece	855-9949	1,474.00
	GraverMax G8 w/ #901 QC Handpiece	855-9951	1,474.00
	GraverMax G8 w/ Magnum Handpiece	855-9952	1,494.00

B

B. GRS® GraverMach AT™ – All in One System

Never before has an all-in-one system given the user so much versatility and control. Features a selector knob for choice of hand or foot operation of your handpiece: the touch element offers pressure-sensitive hand control for precision work; the traditional foot pedal offers standard foot control when you prefer.

Requires air compressor for 1.4 CFM of oil-free air at 45 PSI. Includes foot pedal, dual-stage air regulator, air hoses and quick-disconnect handpiece fittings for all GraverMach handpieces. Measures 6"W x 13"D x 8¼"H. Electrical: 100–240V, 50/60Hz. UL, GS, CE and LPS approved. Made in USA.

	Description	Item#	Each
B.	GraverMach AT	856-0270	$1,839.00
	GraverMach AT w/ #901 QC Handpiece	856-0102	2,138.00
	GraverMach AT w/ #940 QC Handpiece	856-0101	2,178.00

C

C. GRS® GraverSmith™ – The budget-oriented choice!

Performs basic engraving and setting for less than its siblings, GraverMach and GraverMax SC. Features regulator with pressure gauge, combo filter and water trap, adjustable speed of 400–8,000 strokes/min. and quick-disconnect handpiece fitting.

Requires air compressor that yields at least 1.4 CFM of air at 45 PSI. Includes foot control, air tubing, and holes for storing accessories. Electrical: 110/220V. Measures 5¾"W x 9½"D x 9½"H. (Handpieces sold separately, see pp. 281-283.)

	Description	Item#	Each
C.	GraverSmith	855-9950	$869.00

D

D. GRS® GraverMeister® – The original standalone machine!

This unit comes ready to use with its own oil-less air compressor, making it readily portable. Features adjustable speed of 1,600–2,400 strokes/min. (sliding lever on front controls stroke rate). Can be used for engraving on precious metals, steels and more, carving, stippling, bright-cutting and bead raising.

Sold alone or with GRS #509 handpiece (see p. 281 for details). Includes foot control, air tubing and four tools. Electrical: 115V, 7A, 60Hz. Measures 14"W x 11½"D x 8½"H.

	Description	Item#	Each
D.	GraverMeister	856-0049	$1,698.00
	GraverMeister with #509 QC HP	856-0302	2,037.00

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A. GRS® #901 Quick-Change Handpiece – For Max/G8/SC, Mach/AT & Smith

Offers a wide power range and fine control. Excellent for stone setting, fine engraving, deep relief work, bead raising and hammer setting. Features heat-treated stainless steel construction, ergonomic handle and adjustable side hose connection. Available with six quick-change holders or in a complete set with quick-change handle, nine quick-change holders, six steel points, one GlenSteel graver and tool tray. Measures 2.6" long. Weighs 2.6 oz.

A

	Description	Item#	Each
A.	#901 Quick-Change Handpiece	**855-9991**	**$299.00**
	#901 Quick-Change Handpiece Set	**855-9992**	**349.00**

B. GRS® #921 Monarch Quick-Change Handpiece – For Max/G8/SC, Mach/AT & Smith

The top-quality Monarch impact handpiece makes ultra-fine engraving easier than ever, including bulino and banknote styles. Features heat-treated stainless steel construction, graver-style handle and adjustable side hose connection. Includes six quick-change holders. Measures 2.4" long. Weighs 1.8 oz.

B

Description	Item#	Each
#921 Monarch Quick-Change Handpiece	**855-9990**	**$299.00**

C. GRS® #940 Magnum Quick-Change Handpiece – For Max/G8/SC, Mach/AT & Smith

The compact handpiece with an unmatched combination of power and control—try it and you'll be more than impressed. Offers a better range of power than any other handpiece, from very fine to amazingly heavy. In fact, it exceeds the power of previous models that are twice as large. Also offers fine control with shading capability that's significantly better than any handpiece with this much top-end power. Includes palm knob, head and six quick-change holders. Oval knob available as a special order. Measures 2.8" long. Weighs 6.4 oz.

C

Description	Item#	Each
#940 Magnum Quick-Change Handpiece	**856-0303**	**$339.00**

D. GRS® #710 Quick-Change Handpiece – For Max/G8/SC, Mach/AT & Smith

Offers plenty of power for working on hard metals such as platinum and steel as well as good control for making smooth cuts in gold and other soft metals. Features stainless steel construction, ergonomic handle and quiet rear exhaust. Includes six quick-change holders. Measures 4.4" long. Weighs 6.4 oz.

D

Description	Item#	Each
#710 Quick-Change Handpiece	**856-0015**	**$309.00**

E, F GRS® #610 Hammer Handpiece – For Max/G8/SC, Mach/AT & Smith

This exceptional impact tool offers the power for stone setting and control necessary for light jobs. Operates with tool directly on work rather than loosely above it for reduced stone damage. Built for all-day use. Produces the brightest stippling possible when used with Lazer Point #850-3590 (sold separately). Setscrew chuck holds round tools up to 0.13" (3.3mm) and square tools up to 0.10" (2.5mm). Measures 4.5" long. Weighs 5.5 oz.

E

	Description	Item#		Each
E.	#610 Hammer Handpiece	**856-0280**		**$319.00**
	Description	**Item#**	**1-2**	**3+**
F.	Lazer Point	**850-3590**	**$24.95**	**$22.46**

F

G. GRS® #509 Large Quick-Change Handpiece – For GraverMeister only.

The most powerful GraverMeister handpiece available. Great for heavy metal engraving, hammering and wood carving. Includes six quick-change holders. Measures 6.0" long. Weighs 7.9 oz.

G

Description	Item#	Each
#509 Large Quick-Change Handpiece	**856-0301**	**$339.00**

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A-D GRS® Airtact® Control System

Airtact replaces the foot control on your GRS machine to provide an incredibly tactile, precise way to control power to your impact handpiece using only the pressure of your palm, thumb/finger or foot, bringing higher precision to engraving work.

Consists of Control System and your choice of Touch Elements: Palm style installs on back of handpiece for those who hold it like a hand engraver, Thumb/Finger style installs on front of handpiece for those who hold it like a pencil and FootPod style is designed for those who prefer tried-and-true foot control.

Airtact works with GraverMax G8, GraverMach, GraverMax SC, GraverSmith, GraverMax or GraverMate, regardless of when it was made (GraverMax and GraverMate require proper Filter Hookup Set). Control System includes tubing and connections for up to two Touch Elements. Measures 3½"W x 7"D x 4½"H. Backed by a two-year manufacturer's warranty.

	Description	Item#	Each
A.	Control System	**855-9957**	**$419.00**
B.	Palm Element Set for #901 HP	**855-9961**	**99.00**
	Palm Element Set for #921 HP	**855-9962**	**99.00**
C.	Thumb/Finger Element Set for #901 HP	**855-9960**	**27.95**
	Thumb/Finger Element Set for #921 HP	**855-9959**	**27.95**
D.	FootPod Element Set	**855-9958**	**37.95**
	Filter Hookup Set for GraverMax	**855-9955**	**49.95**
	Filter Hookup Set for GraverMate	**855-9956**	**49.95**

E. GRS® Quick-Change Handpiece System 3

The most affordable, least complicated air impact handpiece system from GRS. Unlike GRS systems which produce special air pulses to control impact handpieces, Handpiece System 3 uses normal compressed air to run a simpler self-oscillating piston-and-port quick-change impact handpiece.

Features a lightweight, cool-running handpiece that reduces fatigue so you can work faster. Delivers good power for engraving, texturing and carving a variety of materials. Includes air filter/regulator, foot control, three quick-change tool holders, six tools, air tubing and interchangeable springs for fine to heavy work. Requires air compressor that yields at least 1.2 CFM of air at 50 PSI.

Description	Item#	Each
Quick-Change Handpiece System 3	**856-0020**	**$548.00**

F. GRS® Progressive Foot Control

Offers innovative power delivery for extremely smooth startup and excellent control over both bulino and banknote-style engraving and fine shading, as well as an amazingly wide power range. Combines a control zone and a power zone in one seamless unit.

Standard foot controls provide roughly 50% power halfway through pedal travel. The Progressive Foot Control meters 20% power for the first half of pedal travel, then increases power progressively until 100% is reached at full pedal travel, giving you precise control at the start of each cut plus a full range of power as you need it. For use with all GRS systems except for the GraverMeister. Measures 8½"W x 10"D x 6"H.

Description	Item#	Each
Progressive Foot Control	**856-0048**	**$119.00**

G. Quick-Disconnect Kit – Saves time changing handpieces.

Allows quick changes from one handpiece to another without interrupting workflow. Cuts off airflow immediately when release button is pushed. Installs on vinyl tubing. Includes main body and two quick-disconnect handpiece fittings.

Description	Item#	Each
Quick-Disconnect Kit	**856-0282**	**$29.95**

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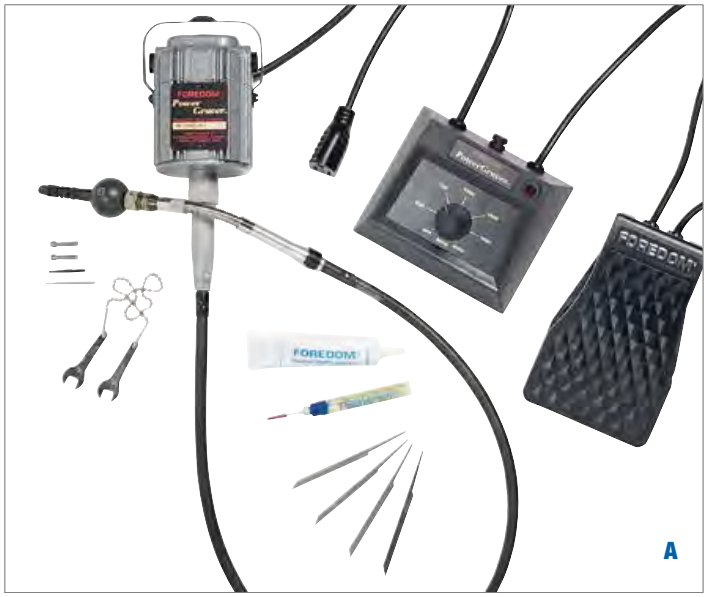
A. Foredom® Power Graver™ – For engraving and setting.

Power Graver is a flexible shaft system specially designed for engraving and hammering. Uses standard gravers to give you the feel of hand engraving with less effort and fatigue. Provides stone setters the power they need for bezel and channel setting, raising beads, turning prongs and chasing.

Includes motor, #9D hammer handpiece with duplex spring, manual speed controller, on/off foot switch, accessory kit, grease, handpiece oil and DVD. Permanently lubricated ball bearing motor provides high torque at low speed for tough jobs. Can be used with hammer handpieces other than #9D. The #9D handpiece comes with 1/16", 3/32", 1/8" and 3mm collets for gravers, beading tools and setting tools. Fits Power Graver motor only. Benchtop manual speed controller runs motor at 500–2,800 strokes/min., keeping selected speed constant. On/off foot switch lets you stop and start again without readjusting speed.

	Description	Item#	EACH Prices 1-2	3-5	6+
A.	Power Graver, 110V	**821-6725**	**$415.00**	**$394.25**	**$373.50**
	Power Graver, 220V	**821-6730**	**415.00**	**394.25**	**373.50**



A

B-D GRS® #850 Ultra-High-Speed Rotary Handpiece

Provides considerably more power and torque than other rotary handpieces. Operates at 300,000–400,000rpm for effortless engraving, decorating and grinding of metal, plastic, glass, stone, wood and many other materials. Runs with virtually no vibration or noise. Needs no lubrication. Accepts only 1/16" tools due to its high operating speed (see below for diamond/stone and carbide bur sets). Includes air tubing, connectors and carbide bur. Connects to auxiliary airport on all GRS systems (excluding GraverSmith and GraverMeister) or any regulated air supply. Requires 1.3 CFM of air at 30–35 PSI. Measures approx. 5/8" dia. x 5 1/8" long. Weighs 2.5 oz.

	Description	Item#	Each
B.	#850 Ultra-High-Speed Rotary Handpiece	**855-9989**	**$468.00**
C.	Diamond/Stone Bur Set - 1/16" shank	**856-0289**	**49.95**
D.	Carbide Bur Set - 1/16" shank	**856-0288**	**24.95**

B

C

D

E, F Magna-Graver® II Vari-Pact™

Vari-Pact is a powerful impact handpiece that attaches to any standard flex shaft except Power Graver. Allows you to do scrollwork, florentine, bead raise, texture and stipple on precious metals as well as brass and steel. Selector button lets the user choose from four impact power settings that range from light to heavy for better cutting control. To protect handpiece from undue wear and tear and improve control, use with a flex shaft that has gear reduction, such as Foredom LX (850-1220 see p. 436). Measures 5 1/4" long. Made in USA. Graver set sold separately.

	Description	Item#	Each
E.	Magna-Graver II Vari-Pact	**821-6042**	**$325.00**
F.	Graver Set for Magna-Gravers*	**821-6045**	**36.35**

**Three gravers (square, flat and liner) and round high-speed steel tool blank, all with 1/8" shanks*

E

F

G-I Dremel® Electric Engraver

An economical adjustable engraver for creating designs on metal, wood, plastic, ceramic, glass and leather. Features stroke adjustment dial and pencil-type grip. Includes hanger and carbide point. Measures 6" long. UL listed.

	Description	Item#	Each
G.	Electric Engraver, 110V	**821-6010**	**$31.95**
H.	Optional Diamond Point	**821-6020**	**16.25**
I.	Replacement Carbide Point	821-6015	5.30

G

H

I

J. GRS® Engraving Methods & Techniques

An exciting course in engraving methods and techniques. Detailed instructions on design, making basic cuts, scroll engraving and script lettering show how best to use the mechanical assist from the GraverMax or the GraverMeister. Many examples of superior or museum-quality pieces engraved by masters are shown.

This video course teaches how to set up and practice and how to transfer designs onto the metal workpiece. It demonstrates many technical "secrets" used by successful engravers throughout the world. Set of 2 DVDs, 4 hours total.

Description	Item#	Each
GRS Engraving Methods and Techniques	**856-0060**	**$39.00**

J

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Muller® Swedish Steel Gravers

Made of premium-grade Swedish steel pretempered for work on non-ferrous metals such as gold, platinum, silver and copper. Can be retempered to suit individual requirements.

Muller Flat

No.	Item#	EACH Prices 1-2	3+
36	165-1360	$6.65	$5.99
37	165-1370	6.65	5.99
38	165-1380	6.65	5.99
39	165-1390	6.65	5.99
40	165-1400	6.65	5.99
41	165-1410	6.65	5.99
42	165-1420	6.65	5.99
43	165-1430	6.65	5.99
44	165-1440	6.65	5.99
45	165-1450	6.65	5.99
46	165-1460	6.90	6.21
47	165-1470	6.90	6.21
48	165-1480	6.90	6.21
49	165-1490	6.90	6.21

Muller Round

No.	Item#	EACH Prices 1-2	3+
50	165-1500	$6.65	$5.99
51	165-1510	6.65	5.99
52	165-1520	6.65	5.99
53	165-1530	6.65	5.99
54	165-1540	6.65	5.99

Muller Point (Onglette)

No.	Item#	EACH Prices 1-2	3+
000	165-6003	$6.65	$5.99
00	165-6002	6.65	5.99
0	165-6001	6.65	5.99
1	165-6010	6.65	5.99
2	165-6020	6.65	5.99
3	165-6030	6.65	5.99

Muller Half-Point Left

No.	Item#	EACH Prices 1-2	3+
2	165-2020	$6.65	$5.99

Muller Half-Point Right

No.	Item#	EACH Prices 1-2	3+
2	165-3020	$6.65	$5.99

Muller Bevel Edge

No.	Item#	EACH Prices 1-2	3+
0	165-0001	$7.50	$6.75
1	165-0010	7.50	6.75
2	165-0020	7.50	6.75
3	165-0030	7.50	6.75

Muller Oval

No.	Item#	EACH Prices 1-2	3+
63	165-0630	$6.90	$6.21
64	165-0640	6.90	6.21
65	165-0650	6.90	6.21

Muller Knife

No.	Item#	EACH Prices 1-2	3+
0	165-4000	$6.65	$5.99
1	165-4010	6.65	5.99
2	165-4020	6.65	5.99
3	165-4030	6.65	5.99
4	165-4040	6.65	5.99

Muller Square

No.	Item#	EACH Prices 1-2	3+
2	165-7020	$6.98	$6.28
4	165-7040	6.98	6.28
6	165-7060	6.98	6.28
8	165-7080	6.98	6.28
10	165-7100	6.98	6.28
12	165-7120	7.25	6.53

Muller Tapered Square

No.	Item#	EACH Prices 1-2	3+
1	165-8010	$6.98	$6.28
2	165-8020	6.98	6.28
3	165-8030	6.98	6.28

Gesswein® High-Speed Red Tang Gravers

Made of high-speed steel. Generally preferred for use on gold, platinum, silver and steel. Hold cutting edges four to five times longer than Swedish tool steel gravers. Made in USA.

Gesswein HS Flat

No.	Item#	EACH Prices 1-2	3+
36	166-1360	$7.85	$7.07
37	166-1370	7.85	7.07
38	166-1380	7.85	7.07
39	166-1390	7.85	7.07
40	166-1400	7.85	7.07
41	166-1410	7.85	7.07
42	166-1420	7.85	7.07
43	166-1430	7.85	7.07
44	166-1440	7.85	7.07
45	166-1450	7.85	7.07

Gesswein HS Round

No.	Item#	EACH Prices 1-2	3+
50	166-1500	$7.85	$7.07
51	166-1510	7.85	7.07
52	166-1520	7.85	7.07
53	166-1530	7.85	7.07
54	166-1540	7.85	7.07
55	166-1550	7.85	7.07
56	166-1560	7.85	7.07
57	166-1570	7.85	7.07

Gesswein HS Point (Onglette)

No.	Item#	EACH Prices 1-2	3+
0	166-5001	$7.85	$7.07
1	166-5010	7.85	7.07
2	166-5020	7.85	7.07
3	166-5030	7.85	7.07
4	166-5040	7.85	7.07

Gesswein HS Bevel Edge

No.	Item#	EACH Prices 1-2	3+
1	166-0010	$8.99	$8.09
2	166-0020	8.99	8.09
3	166-0030	8.99	8.09

Gesswein HS Knife

No.	Item#	EACH Prices 1-2	3+
0	166-4000	$7.85	$7.07
1	166-4010	7.85	7.07
2	166-4020	7.85	7.07
3	166-4030	7.85	7.07
4	166-4040	7.85	7.07

Glardon/Vallorbe Swiss High-Speed Yellow Tang Gravers

Made of high-speed steel specially melted and rolled just for gravers. Suitable for use on precious metals, wood, bone, ivory and onyx.

Yellow Tang Flat

No.	Item#	Each
36	166-7210	$10.60
37	166-7211	10.60
38	166-7212	10.60
39	166-7213	10.60
40	166-7214	10.60
41	166-7215	10.60
42	166-7216	10.60
43	166-7217	10.60

Yellow Tang Round

No.	Item#	Each
50	166-7220	$10.60
51	166-7221	10.60
52	166-7222	10.60
53	166-7223	10.60
54	166-7224	10.60

Yellow Tang Point (Onglette)

No.	Item#	Each
4/0	166-7198	$10.60
2/0	166-7200	10.60
0	166-7201	10.60
1	166-7202	10.60
2	166-7203	10.60
3	166-7204	10.60
4	166-7205	10.60
5	166-7206	10.60
6	166-7207	10.60

Make your own custom grips and handles with JETT SETT— see p. 487

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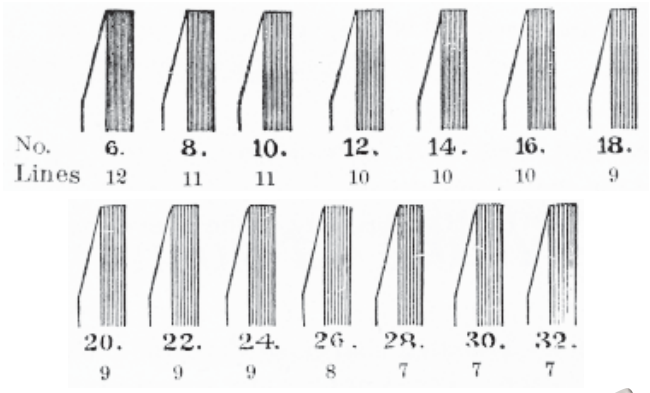

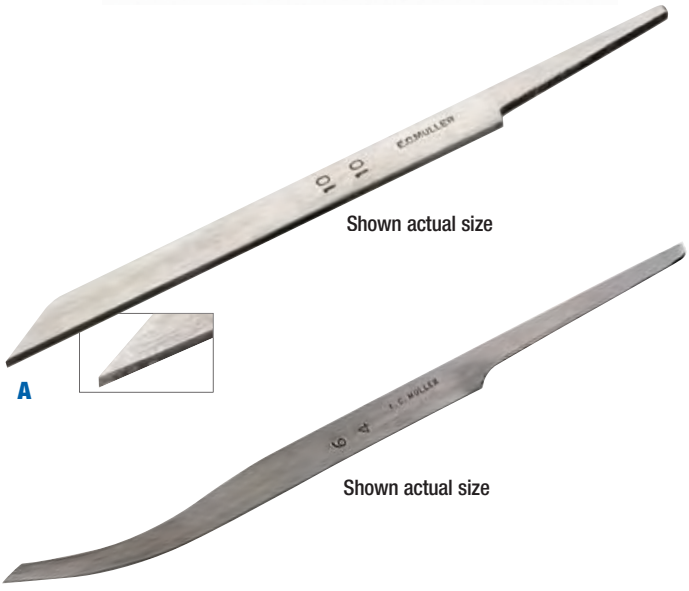

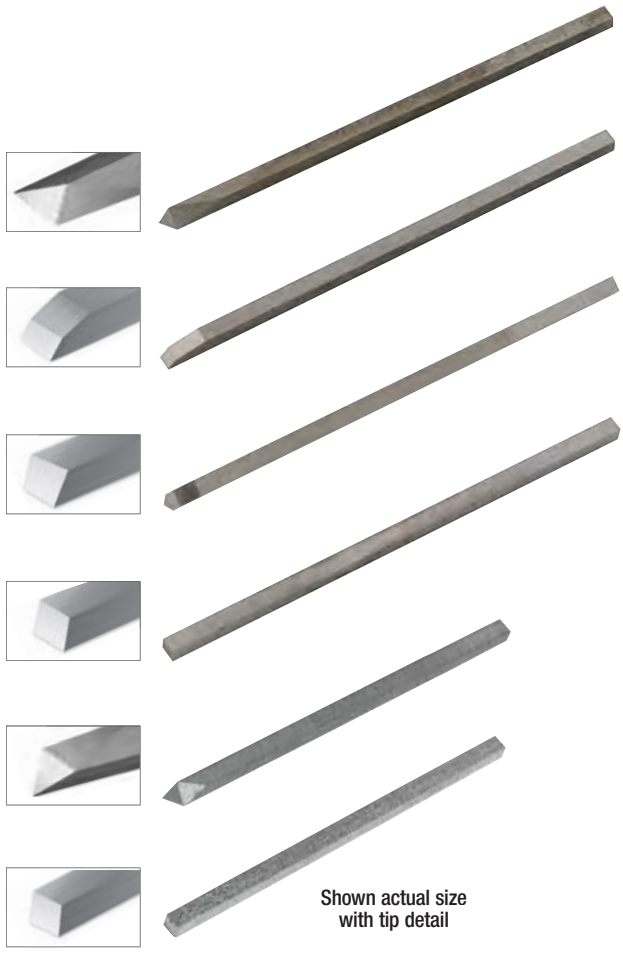

A, B Muller® Line Gravers (Liners)

Every industry knows the adage "time is money" and liners are a terrific time saving tool for engravers. Use to make multiple parallel lines with a single stroke for shading, backgrounds, achieving a Florentine finish and cross-hatch or checkering patterns. Made of premium-grade Swedish steel. Choose from straight and bent styles. Each has a size that represents the distance between lines (the first number) and the number of lines (the second number). The larger the first number, the greater the distance between lines. Size 18/10 creates a standard Florentine finish. Can be used on a variety of metals, woods, plastics etc. Made in USA.

Style	Size	Item#	Each
A. Straight	6/4	**167-0604**	**$17.00**
	6/6	**167-0606**	**17.00**
	6/8	**167-0608**	**17.00**
	6/10	**167-0610**	**17.00**
	8/6	**167-0806**	**17.00**
	8/10	**167-0810**	**17.00**
	12/10	**167-1210**	**17.85**
	14/10	**167-1410**	**17.40**
	18/6	**167-1806**	**18.60**
	18/8	**167-1808**	**20.00**
	18/10	**167-1810**	**20.00**
	18/12	**167-1812**	**20.00**
	20/10	**167-2010**	**19.70**
	24/6	**167-2406**	**19.89**
	24/8	**167-2408**	**23.20**
	26/10	**167-2610**	**20.00**
	28/10	**167-2810**	**23.35**
	30/10	**167-3010**	**23.35**
	32/8	**167-3208**	**23.35**
	32/10	**167-3210**	**23.35**
B. Bent	6/4	**168-0604**	**18.65**
	6/6	**168-0606**	**18.65**
	6/8	**168-0608**	**18.65**
	6/10	**168-0610**	**18.65**
	8/6	**168-0806**	**18.65**
	14/10	**168-1410**	**19.15**
	18/10	**168-1810**	**21.70**
	18/12	**168-1812**	**21.70**

C-F GRS® GlenSteel™ Gravers

Made of GlenSteel, a high-speed tool steel forged exclusively by GRS for engraving, setting and other demanding work. Stay sharp longer and resist breakage better than other gravers and tools. Easier to grind and cobalt-free for increased safety. Measure 0.093" (2.35mm) square x 2.7" (70mm) long. Fit all GRS QC (quick-change) impact handpieces.

Style	Item#	Each
C. Square	**856-0001**	**$13.95**
D. Flat	**856-0002**	**13.95**
E. 120° Point	**856-0003**	**17.95**
F. Blank	**856-0004**	**12.95**

G, H Carbide Gravers

Made of a special grade of extra-fine-grain carbide that withstands impact better than any other grade. Sharpen with Power Hone (see p. 292) and diamond wheel. Square has one end angled at 45°. Blank is unground and ready to be custom-shaped. Measure just under 3/32" square x 2" long.

Style	Item#	Each
G. Square	**856-0292**	**$9.95**
H. Blank	**856-0290**	**7.95**

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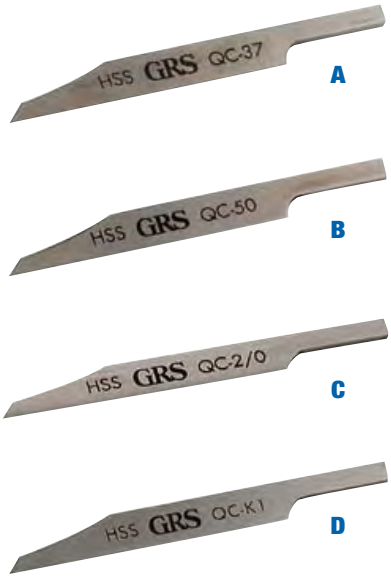
A-D GRS® QC Gravers – In convenient ready-to-go shapes.

Just sharpen and use. Eliminate the need for tedious shaping—think of the time they'll save. Fit all GRS QC (quick-change) impact handpieces when mounted in GRS QC Holders (see below). Also fit many other handpieces, including Power Graver, Magna-Graver and more. Precision-ground from high-speed chrome tool steel. Sold individually and in two kits.

Style	No.	Width	Item#	Each	Setter's Kit	Engraver's Kit
A. Flat	37	0.4mm	**855-9975**	**$9.95**	•	•
	38	0.6mm	**855-9976**	**9.95**		•
	39	0.8mm	**855-9977**	**9.95**		•
	40	1.0mm	**855-9978**	**9.95**	•	•
	42	1.4mm	**855-9979**	**9.95**	•	•
	44	1.8mm	**855-9980**	**9.95**		
B. Round	50	0.2mm	**855-9981**	**9.95**	•	
	51	0.4mm	**855-9982**	**9.95**	•	•
	52	0.6mm	**855-9983**	**9.95**	•	•
	53	0.8mm	**855-9984**	**9.95**	•	
C. Onglette (Point)	2/0	1.45mm	**855-9969**	**9.95**	•	•
	0	1.58mm	**855-9970**	**9.95**	•	
	1	1.78mm	**855-9971**	**9.95**	•	•
	3	1.94mm	**855-9972**	**9.95**		•
D. Knife	1	2.0mm	**855-9985**	**9.95**	•	•
	2	2.2mm	**855-9986**	**9.95**	•	•

Description	Item#	Each
Setter's Kit	**855-9967**	**$109.80**
Engraver's Kit	**855-9968**	**109.80**



E. GRS® QC Holders – For fast tool changes.

Fit GRS QC (quick-change) impact handpieces, QC Handle and QC Sharpening Fixture. Allow fast tool changes. Accept square tools up to 0.10" (2.5mm) thick, round tools up to 0.13" (3.3mm) in diameter and most gravers, including GRS QC Gravers (see above).

Description	Item#	Each
QC Holders, pkg. of 3	**855-9987**	**$18.90**
QC Holders, pkg. of 10	**855-9988**	**56.90**

F. GRS® Combination Tool Carousel – For gravers and small tools.

Spend more time engraving and less time searching for tools with this efficient organizer. Top tray holds up to 30 tools and gravers, and bottom tray has four removable QC (quick-change) tool trays that each hold 10 gravers with GRS QC Holders attached. All trays rotate for easy access. Small footprint occupies very little space on the workbench.

Description	Item#	Each
Combination Tool Carousel	**856-0293**	**$37.95**

Tools not included

G. Ruby® Bench Stones – The ultimate sharpening stones.

Ideal for sharpening gravers and tools—even carbide ones. Made of pure, sintered crystals of synthetic ruby for outstanding wear resistance, which makes them more economical than other stones. Will not groove, even after years of use. Choose from double-sided sizes and single-sided sizes mounted in wooden boxes. Made in Germany.

Description	Size (L x W x Thick)	Grit	Item#	Each
Double-sided	4" x 1" x 3/8"	Medium	**350-1002**	**$108.50**
		Fine	**350-1003**	**126.00**
	6" x 1" x 5/8"	Medium	**350-1012**	**175.00**
		Fine	**350-1013**	**175.00**
Single-sided in box	4" x 1" x 3/8"	Medium	**350-1102**	**103.00**
		Fine	**350-1103**	**124.00**
	4 3/4" x 2" x 3/8"	Medium	**350-1112**	**265.00**
		Fine	**350-1113**	**265.00**

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A

B

C

D

E

F

A, B GRS® Engraver's Blocks

The Magnablock and the Small Block are extremely well-made devices used to hold objects firmly for engraving, stone setting and general-purpose work. Each holds both large and small items. Features heavy weight and adjustable drags for keeping the workpiece in the proper position. Uses two industrial ball bearings and a large roller thrust bearing to eliminate side play and wobble. Includes rubber ring pad with Nylon glides, upper jaw plates, five pins and wrench. Made in USA.

Features:

- Solid steel construction for exceptional durability
- Adjustable friction lock from zero to full lock for crown rotation control
- Nonglare satin finish on body, black oxide finish on jaws for protection
- Precision-machined parts for smooth, efficient operation
- Easily adjustable working angles for comfort

Specifications:	Magnablock	Small Block
Spherical Diameter	5¾"	5⅛"
Jaw Size	3"W x 1¾"H	2½"W x 1½"H
Max. Jaw Opening	3½"	3"
Net/Ship. Wt.	30/33 lbs.	19/22 lbs.

	Description	Item#	Each
A.	Magnablock	**856-0275**	**$648.00**
	Magnablock with 30-Piece Attachment Set	**856-0276**	**718.00**
	Small Block	**821-6000**	**468.00**
B.	Small Block with 30-Piece Attachment Set	**821-6005**	**538.00**

C. GRS® 30-Piece Attachment Set

30 attachments for all GRS Engraver's Blocks in a wooden storage base. Includes Ring Holding Clamp, shown.

Description	Item#	Each
30-Piece Attachment Set	**856-0277**	**$98.00**

D. GRS® Ring Holding Clamp

Uses leather lining to prevent objects from marring. Fits all GRS Engraver's Blocks (included in above set).

Description	Item#	Each
Ring Holding Clamp	**856-0296**	**$21.95**

E. GRS® Microblock™ Ball Vise

Compact, low-profile design is perfect for microscope work and other jobs where a larger vise is an obstacle. Smooth, self-centering jaw system and adjustable internal brake system lets the user choose the amount of rotational resistance from totally free to fully locked. Machined from solid stainless steel and finished with low-glare treatment to reduce eyestrain. Includes positioning ring, four jaw pins, wrenches and Thermo-Loc Sample Kit (four bars). Measures 3.1" dia. with 1.8"W x .87"H jaws. Max. jaw opening: 2". Made in USA.

	Description	Item#	Each
	Microblock	**856-0304**	**$268.00**
E.	Microblock with 30-Piece Attachment Set	**856-0305**	**338.00**

F. GRS® Inside Ring Holder for Vises

Holds rings from the inside for easy stone setting or engraving. Safely handles tapered and delicate designs that can be crushed by ordinary ring clamps. Fits in all GRS Engraver's Blocks and most vises. Includes seven different mandrels for holding ring sizes 4-13 without marring, expansion screw and wrench. Made of solid steel.

Description	Item#	Each
Inside Ring Holder	**856-0209**	**$67.95**

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A, B PEPETOOLS Engraver's Block and Attachments

High-quality chrome-plated block designed to hold workpieces firmly without side motion. Has ball bearings for freedom of movement and smooth swiveling. Includes 5" felt ring pad and hex key. Available with or without 35-piece attachment set. Imported.

	Description	Item#	Each
A.	Engraver's Block	**821-6111**	**$257.15**
	Engraver's Block with 35-Piece Attachment Set	**821-6110**	**296.95**
B.	35-Piece Attachment Set (includes Replacement Hex Key)	**821-6112**	**103.20**
	Long Rubber-Covered Pins, set of 4	**821-6150**	**7.08**
	Tapered Pins, set of 4	**821-6300**	**8.75**
	Replacement 5" Felt Ring Pad	288-5010	51.70
	Replacement Hex Key	821-6800	8.00

C. GRS® Thermo-Loc®

Very tough work-holding plastic. Softens with heat to clay-like pliable consistency so you can form it around an endless variety of workpieces. Turns rock-hard once it cools to hold items securely. Economical and practical—can be reused again and again. Neutral gray in color to prevent eyestrain, even under bright work lights. Heat in a microwave oven on the pad included with the Starter Kit, in a conventional oven, in hot water or with a heat gun (be sure to follow proper heating instructions).

Description	Item#	Each
Thermo-Loc, ½ lb.	**816-1592**	**$19.95**
Thermo-Loc, 1 lb.	**816-1593**	**33.95**
Thermo-Loc, 5 lbs.	**816-1594**	**139.95**
Thermo-Loc Starter Kit (includes 1 lb. Thermo-Loc and microwave-safe 6" x 6" pad)	**816-1597**	**42.95**

Also see JETT SETT page 487

D. GRS® Thermo-Loc® Jaw Sets

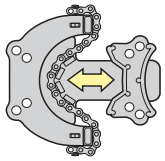
Hold irregularly shaped and fragile parts securely without damaging them. Choose from small and large jaw sets for respective GRS Engraving Blocks. Each includes two stainless steel master jaws and four aluminum bonding strips. Easy to use: just set jaws in your Engraving Block, bolt on aluminum bonding strips, apply Thermo-Loc to strips, and form them around your workpiece. Unbolt and save custom jaws for repeat jobs, or resoften the Thermo-Loc to hold another workpiece.

Description	Item#	Each
Thermo-Loc Small (Small Block) Jaw Set	**816-1595**	**$84.95**
Thermo-Loc Large (Magnablock) Jaw Set	**816-1596**	**86.95**

E. GRS® Contoured Vise Jaw Set

Ideal for holding odd-shaped parts in GRS Megablock and Small Engraver's Blocks. Fits in top holes of blocks. Has rubber-lined jaws that automatically conform to a part's shape to grip it firmly with minimal clamping force. Provides a fast and safe way to hold shaped mold inserts and irregular items for polishing. Small jaw can be rotated 180° for greater versatility.

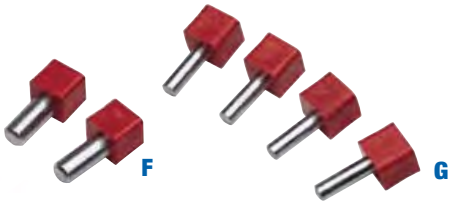
Description	Item#	Each
Contoured Vise Jaw Set	**821-5997**	**$69.00**


Top view

F, G GRS® Super Pins

Made of heavy-duty plastic to hold large parts without marring. Fit in GRS Magnablock and Small Block. Available with ⅜" and ¼" steel shanks.

	Description	Item#	Each
F.	Super Pins with ⅜" shanks, pkg. of 2	**821-5999**	**$5.90**
G.	Super Pins with ¼" shanks, pkg. of 4	**821-5998**	**8.40**



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A, B Pitch Bowls

Made of cast iron. The 5" diameter bowl holds up to 2 lbs. of pitch, and the 8" diameter bowl holds up to 4 lbs. of pitch (not included). Use with ring pad (see below) for stability.

	Description	Diameter	Item#	Each
A.	Small Bowl	5"	**811-1290**	**$24.70**
B.	Large Bowl	8"	**811-1310**	**28.90**

C-E Ring Pads

Use with pitch bowls to insulate the workbench surface from heat. Lets you tilt engraver's block or pitch bowl so you can find the best working angle.

	Description	Diameter	Item#	Each
C.	Felt Pad	5"	**288-5010**	**$51.70**
D.	Small Rubber Pad	5"	**811-1291**	**5.95**
E.	Large Rubber Pad	8"	**811-1311**	**11.70**

F. GRS® Pitch Cup

Compact pitch cup for mounting in jaws of any vise or engraver's block. Each comes prefilled with black pitch, a special material that softens when heated and provides firm support for hard-to-hold, irregularly shaped and delicate items. Gently reheat pitch to remove workpiece.

Description	Dimensions	Item#	Each
Pitch Cup	2" diameter	**856-0171**	**$23.95**

G. Black Pitch

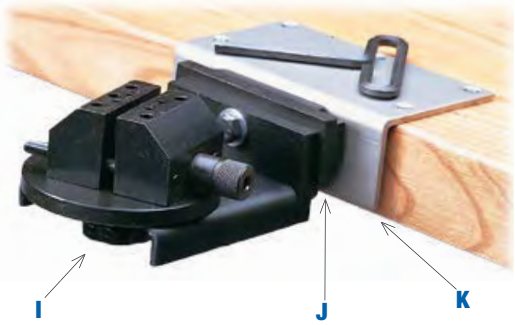
Traditional, ready-to-mix pitch for holding and supporting jewelry during engraving and more. Especially useful for holding objects too delicate to hold in an engraver's block. Use in a pitch bowl and set into a ring pad for a handy engraving fixture. Mix with plaster or pumice and linseed oil to vary hardness. Includes instructions for mixing and use. Sold in 8 oz. containers.

Description	Item#	Each
Black Pitch, 8 oz.	**811-1805**	**$37.30**

H. Peg Clamp

A mini handheld tool for holding odd-shaped items for engraving. Features 2" dia. half-round spring-loaded jaws that open and close on twin guides at the turn of a thumb screw. Includes four pegs that can be easily positioned in any of the 30 holes in each jaw. Has wooden handle. Measures 5" long. Max. jaw opening: 7/8".

	Description	Item#	Each
H.	Peg Clamp	**812-0210**	**$18.25**
	Replacement Pegs, pkg. of 4	812-0200	2.95



I-K GRS® BenchMate™ Multipurpose Vise

Attaches to BenchMate or directly to your bench. Tilts left and right and rotates on vertical axis so you can find the best working angle. Features holes in top for holding pins or the padded ring clamp from GRS 30-Piece Attachment Set #856-0277 (see p. 288). Made of satin-finished steel. To mount, fit in Fixed Mounting Plate, secure to Benchtop Mounting Adapter, then screw into bench.

	Description	Item#	Each
I.	Multipurpose Vise	**856-0172**	**$168.00**
J.	Fixed Mounting Plate	**856-0196**	**18.95**
K.	Benchtop Mounting Adapter	**856-0193**	**25.95**

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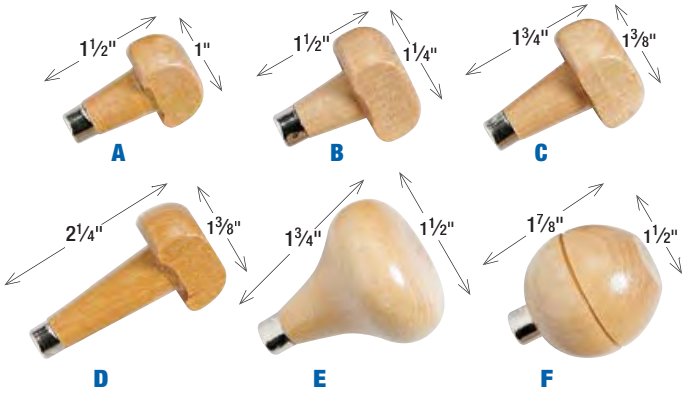
A-F Graver Handles

Six different hardwood handles with metal ferrules for firmly holding gravers.

	Description	Style	Item#	(3pc)	EACH Prices 3-9	12-141
A.	Small 1/2-Head	4	170-2040		$1.35	$1.15
B.	Medium 1/2-Head	8	170-2080		1.21	1.03
C.	Large 1/2-Head	7	170-2070		1.45	1.23
D.	X-Large 1/2-Head	5	170-2050		1.45	1.23
E.	Mushroom	9	170-2090		1.95	1.66
F.	Ball	11	170-2110		1.35	1.15

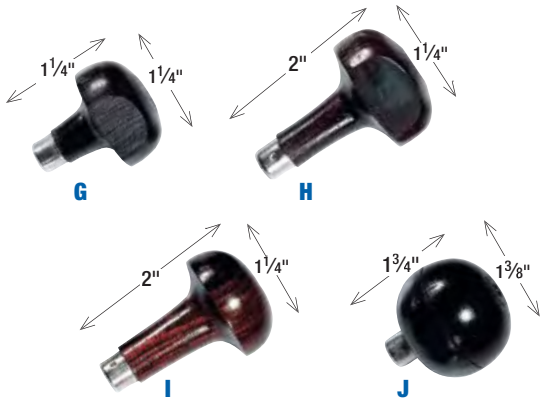
(3pc) *Three-piece minimum; Please order in multiples of three.*



G-J Rosewood Graver Handles

Four different rosewood handles with metal ferrules for firmly holding gravers.

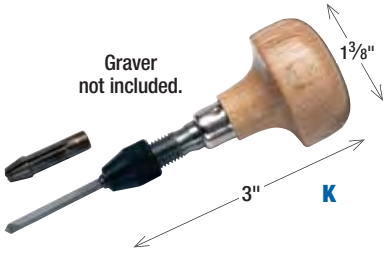
	Description	Item#	Each
G.	Small 1/2-Head	170-2140	$2.50
H.	Large 1/2-Head	170-2141	2.50
I.	Mushroom	170-2143	2.50
J.	Ball	170-2142	2.50



K. Graver Handle with Tool Chucks

Wooden handle with two interchangeable tool chucks for holding gravers and other small tools up to 3mm. To swap tools, just unscrew knurled holder, remove chuck, replace with other chuck and screw holder back on. Graver not included.

Description	Item#	Each
Graver Handle w/ Tool Chucks	840-4210	$8.95



L. GRS® Adjustable Graver Handle Set

Includes three adjustable aluminum handles color-coded for easy graver identification. To adjust, just loosen lock screw, slide graver to desired position and tighten.

Description	Item#	Each
Adjustable Graver Handle Set	170-2201	$42.95

M. GRS® QC Handle

Rubber-covered handle with short reach and comfortable feel for engraving by hand. Includes three QC (quick-change) holders for fast tool changes. Accepts square tools up to 0.10" (2.5mm) thick, round tools up to 0.13" (3.3mm) in diameter and most gravers.

Description	Item#	Each
QC Handle	856-0264	$29.95

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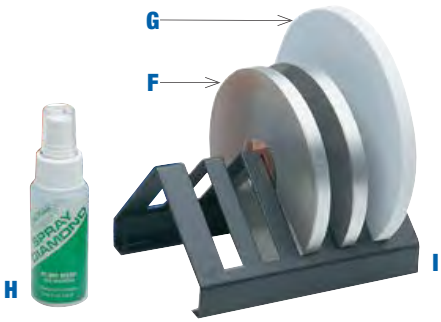
A

B

C

D

E



J

A. GRS® Power Hone Sharpening System

Sharpens gravers and tools in seconds without heat! Yields much sharper, stronger tool edges for making brighter cuts, cleaner lines and scrolls, more precise beads and finer shading. Teaches the beginner proper sharpening in minutes and saves the professional an hour or more each day by drastically reducing sharpening time.

Uses diamond wheels to sharpen hardened steel, high-speed steel and carbide gravers and tools, then ceramic lap with diamond spray to impart final polish. Features steel housing, heavy-duty motor and double-bearing spindle for years of dependability.

Deluxe version includes Power Hone, Dual-Angle Sharpening Fixture, Quick-Change Wheel Adapter, two Diamond Wheels (260, 600 grit), Ceramic Lap, Diamond Spray and Wheel Storage Rack. Basic version includes Power Hone and 600 grit Diamond Wheel only. Both are 110V, 220V also available. Made in USA.

	Description	Item#	Each
A.	Deluxe Dual-Angle System, 110V	**856-0295**	**$1,089.00**
	Basic System, 110V	**856-0255**	**498.00**

B, C GRS® Dual-Angle Sharpening Fixture – Most Versatile

Holds gravers with or without handles and those in QC Holders for precise sharpening. Features two large, easy-to-read degree dials for setting both elevation and rotation angles. Available with or without post.

	Description	Item#	Each
B.	Dual-Angle Sharpening Fixture, head only	**856-0299**	**$229.00**
C.	Dual-Angle Sharpening Fixture, head and post	**856-0018**	**249.00**

D. GRS® QC Sharpening Fixture

Holds gravers in QC holders for precise sharpening. Features two degree dials for setting both elevation and rotation angles and a post and magnetized base.

Description	Item#	Each
QC Sharpening Fixture, head and post	**856-0262**	**$214.00**

E. GRS® Standard Sharpening Fixture

Holds standard gravers for sharpening. Features one degree dial for setting elevation angle and a post with a magnetized base.

Description	Item#	Each
Standard Sharpening Fixture, head and post	**856-0200**	**$138.00**

F-I GRS® Power Hone Wheels

The low-cost, high-quality Diamond Wheels eliminate heat buildup in gravers and tools, last for years and stay flat for accuracy. Produce a fine, dependable finish. Excellent for sharpening carbide, cobalt and standard steel tools. The solid Ceramic Lap produces a mirror finish on tools, resulting in bright cuts on your workpieces. Must be periodically charged with Diamond Spray. Can be used with Quick-Change Wheel Conversion Set (see below).

	Description	Dia. x AH	Grit	Item#	Each
F.	Diamond Wheel	5" x ½"	260	**856-0259**	**$97.00**
			600	**856-0256**	**89.00**
			1200	**856-0032**	**114.00**
G.	Ceramic Lap	6" x 1½"		**856-0258**	**199.00**
H.	Diamond Spray			**856-0260**	**28.90**
I.	Wheel Storage Rack			**856-0035**	**19.95**

J. GRS® Power Hone Quick-Change Wheel Conversion Set

Easily attaches to the Power Hone without tools. Lets you change wheels in seconds: simply lift wheel off and replace with another. Can be used with all GRS 5" and 6" wheels.

Description	Item#	Each
Quick-Change Wheel Conversion Set	**856-0261**	**$69.00**

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A. Crocker-Style Graver Sharpening Fixture

Keeps graver in a fixed position for sharpening on a bench stone. Holds graver at any angle: just set index as desired and lock in for repeated accuracy. Stone and graver not included.

Description	Item#	Each
Crocker-Style Graver Sharpening Fixture	**816-1000**	**$57.90**

A

Stone and graver not included.

B. Graver Sharpening Holder

A small, inexpensive holder for sharpening. Holds gravers in either of two angled openings. Has roller on bottom for smooth action. Use with a bench stone (see p. 29 for our Ruby Bench Stones). Measures 1⅜"W x 1½"H.

Description	Item#	Each
Graver Sharpening Holder	**816-1012**	**$6.95**

B

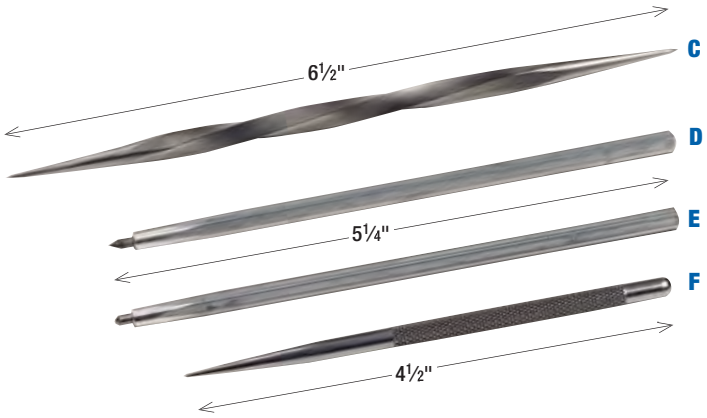
C-F Scribers

Double-ended steel scriber features one-piece steel construction and twisted center for good grip.

Carbide-tipped scriber can be used on hard metals, glass, stones, and diamond scriber can be used on all metals and most stones. Both have hexagonal aluminum handles that prevent rolling.

Steel needle scriber features one-piece steel construction and knurled handle for sure grip.

	Description	Item#	EACH Prices 1-2	3+
C.	Double-Ended Steel Scriber	**816-0890**	**$6.50**	**$5.85**
D.	Carbide-Tipped Scriber	**816-0950**	**4.60**	**4.14**
E.	Diamond Scriber	**220-1900**	**10.85**	**9.77**
F.	Steel Needle Scriber	**816-0905**	**2.10**	**1.89**



G. Chinese White

A fast-drying, nontoxic, white watercolor for layout work. Forms a background so letters or designs can be drawn on the work surface prior to engraving. To use, simply moisten surface with water using fingertip or soft brush, then apply to workpiece. Sold in 0.175 oz. half-cake packaged in aluminum foil for protection from moisture.

Description	Item#	Each
Chinese White	**812-0100**	**$14.85**

G

H. The Expert's Guide to Graver Sharpening – *By Sam Alfano*

Created by Sam Alfano, master engraver with over 25 years of experience. Offers step-by-step instructions on how to use the GRS Sharpening System. Covers sharpening of square, 120°, flat, round, brightcut, script lettering, modified flat and Italian bulino engravers, as well as liners. Includes dozens of timesaving tips and tricks. DVD format, 60 minutes.

Description	Item#	Each
The Expert's Guide to Graver Sharpening	**811-0051**	**$49.00**

H

See other books and DVDs in Engraving on pp. 583-584

I. Easy Step-by-Step Graver Sharpening DVD – *By GRS*

This video teaches graver and tool sharpening in a simple and effective way. Using microscopic camera work and special visual aids, you'll see clear, step-by-step sharpening that you will understand. Each tool is first sharpened and then demonstrated in proper use including metal engraving and stone setting. Everyone using gravers, chisels and similar tools will save time, end frustration and produce finer results with this training. DVD format, 120 minutes.

Description	Item#	Each
The Expert's Guide to Graver Sharpening	**856-0059**	**$39.00**

I

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Swiss Precision Files

The world's standard for quality and performance!

Swiss Precision Files are manufactured to precise production standards, using a combination of machine cutting and hand craftsmanship to produce the most accurate, best cutting and longest-lasting files in the world. They are made of the finest heat-tempered, chrome alloy steel and have the "right" feel, action and balance desired by all true craftsmen. Swiss Precision Files deliver superior performance on all metals. Simply the best you can buy. Files are measured in length from the point where the teeth begin to the end of the file. The handle section (tang) is not considered in the file length. Made in Switzerland.

Barrette

Tapered in width and thickness, coming to a point. Only flat side is double cut, providing safe edge and top.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
3"	23/64" x 3/32"	0	**735-0301**	**$20.58**	**$18.52**
4"	1/2" x 1/8"	00	**735-0402**	**19.95**	**17.96**
		0	**735-0401**	**21.11**	**19.00**
		1	**735-0410**	**22.05**	**19.85**
		2	**735-0420**	**22.79**	**20.51**
		4	**735-0440**	**26.57**	**23.91**
6"	23/32" x 5/32"	00	**735-0602**	**$23.31**	**$20.98**
		0	**735-0601**	**24.78**	**22.30**
		1	**735-0610**	**27.20**	**24.48**
		2	**735-0620**	**27.93**	**25.14**
		4	**735-0640**	**31.19**	**28.07**
8"	7/8" x 13/64"	0	**735-0801**	**34.13**	**30.72**
		2	**735-0820**	**36.86**	**33.17**

Barrette - Hot Die

Same as regular Barrette files except with ground backs, widely used in making and repairing extrusion dies. Double cut.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
3"	3/8" x 3/32"	00	**735-1302**	**$25.04**	**$22.54**
4"	1/2" x 1/8"	00	**735-1402**	**$31.09**	**$27.98**

Checkering Pillar

Parallel in width and gently tapered in thickness. Overcut is parallel to file edges, and upcut is 90° to overcut. Double cut on top and bottom; both edges are safe. Useful for putting serrations on knife edges or for obtaining a checkered design similar to that found on a gun handgrip. Frequently used to create a coarse florentine finish; after initial cut, angle the file 45° or 90° and cut again.

Length of Cut	Width x Thickness	Lines per inch	Cut	Item#	EACH Prices 1-11	12+
6"	1/2" x 11/64"	20	00	**746-0602**	**$36.23**	**$32.61**
		30	0	**746-0601**	**35.91**	**32.32**
6"	1/2" x 11/64"	50	2	**746-0620**	**$38.43**	**$34.59**
		75	4	**746-0640**	**55.55**	**50.00**

Crochet

Tapered in width and gradually tapered in thickness. Used for filing junctions between flat and curved surfaces and for developing slots with rounded edges. Double cut top and bottom - both edges are single cut.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
4"	5/16" x 3/32"	2	**748-0420**	**$28.46**	**$25.61**
6"	13/32" x 9/64"	00	**748-0602**	**29.40**	**26.46**
6"	13/32" x 9/64"	0	**748-0601**	**$31.08**	**$27.97**
		2	**748-0620**	**33.60**	**30.24**

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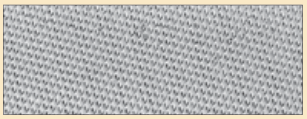
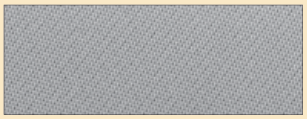
Swiss Precision Files

Each Swiss Precision File is measured in length from the point where the teeth cross to the end of the file. The Handle section (tang) is not considered in file length.



American Cut – Bastard Swiss Cut – 00

American Cut – Second Swiss Cut – 0



American Cut – Smooth Swiss Cut – 2

Scale of Cuts for Swiss Precision Files*

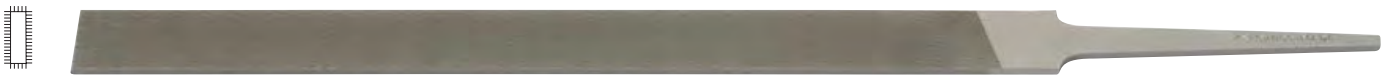
Teeth per Inch	Swiss Precision File 10"+	4" to 8"	3"	Escapement 14cm	Needle 10 to 20cm	DS Rifflers 6" to 7"
30	00	-	-	-	-	-
41	0	00	-	-	-	-
51	1	0	00	-	-	-
64	2	1	0	0	0	0
79	3	2	1	-	-	-
97	4	3	2	2	2	2
117	-	4	3	3	3	3
142	6	-	4	4	4	4
173	-	6	-	-	-	-
213	-	-	6	6	6	6
295	-	-	-	8	-	-

**Except checkering pillar.*

Crossing

Half-round on two sides with one side having a slightly larger radius than the other. Tapered in width and thickness. Cut and usable to the point. Used primarily for filing interior curved surfaces. The double radius allows filing at the junction of two curved surfaces or of a straight and curved surface. Double cut on both sides.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
4"	15/32" x 9/64"	0	**742-0401**	**$38.54**	**$34.69**
		2	**742-0420**	**41.69**	**37.52**
		4	**742-0440**	**48.62**	**43.76**
6"	19/32" x 3/16"	0	**742-0601**	**$45.57**	**$41.01**
		2	**742-0620**	**49.04**	**44.14**
		4	**742-0640**	**57.23**	**51.51**



Equalling

Parallel in width and thickness. Used primarily for filing slots and corners. Double cut top and bottom, both edges are single cut.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
4"	13/32" x 5/64"	0	**741-0401**	**$20.69**	**$18.62**
		2	**741-0420**	**22.37**	**20.13**
		4	**741-0440**	**26.04**	**23.44**
6"	1/2" x 7/64"	00	**741-0602**	**23.00**	**20.70**
		0	**741-0601**	**24.36**	**21.92**
6"	1/2" x 7/64"	2	**741-0620**	**$26.25**	**$23.63**
		4	**741-0640**	**30.66**	**27.59**
8"	21/32" x 1/8"	00	**741-0802**	**31.71**	**28.54**
		0	**741-0801**	**33.50**	**30.15**
		2	**741-0820**	**36.23**	**32.61**

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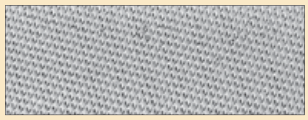
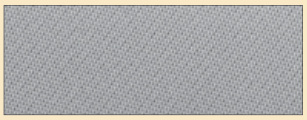
Swiss Precision Files, continued



American Cut – Bastard Swiss Cut – 00

American Cut – Second Swiss Cut – 0



American Cut – Smooth Swiss Cut – 2

Half-Round

Tapered in width and thickness, coming to a point. Double cut on both sides.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
4"	15/32" x 9/64"	00	730-0402	$25.73	$23.16
		0	730-0401	27.20	24.48
		2	730-0420	30.35	27.32
		3	730-0430	32.24	29.02
		4	730-0440	35.49	31.94
6"	19/32" x 3/16"	00	730-0602	31.19	28.07
		0	730-0601	33.08	29.77
		1	730-0610	34.55	31.10
		2	730-0620	35.70	32.13
6"	19/32" x 3/16"	3	730-0630	$38.12	$34.31
		4	730-0640	41.69	37.52
		6	730-0660	68.15	61.34
8"	13/16" x 5/16"	00	730-0802	43.16	38.84
		0	730-0801	45.57	41.01
		1	730-0810	47.88	43.09
		2	730-0820	49.25	44.33
		4	730-0840	57.54	51.79

Half-Round Slim – Also known as Half-Round Ring

Tapered in width and thickness, coming to a point. Narrower than regular half-round so that it can be used for filing insides of holes and rings. Double cut on both sides.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
6"	15/32" x 9/64"	00	736-0602	$32.97	$29.67
		0	736-0601	34.97	31.47
		1	736-0610	36.54	32.89
6"	15/32" x 9/64"	2	736-0620	$37.70	$33.93
		3	736-0630	40.01	36.01
		4	736-0640	44.00	39.60

Hand

Parallel in width and gently tapered in thickness for perfectly flat filing. Double cut top and bottom with one single-cut edge and one safe edge.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
4"	17/32" x 1/8"	0	731-0401	$14.70	$13.23
		2	731-0420	15.65	14.09
		4	731-0440	18.27	16.44
6"	3/4" x 5/32"	00	731-0602	17.22	15.50
		0	731-0601	18.27	16.44
		1	731-0610	19.01	17.11
		2	731-0620	19.74	17.77
		3	731-0630	21.00	18.90
6"	3/4" x 5/32"	4	731-0640	$23.00	$20.70
		6	731-0660	35.18	31.66
8"	29/32" x 3/16"	00	731-0802	23.84	21.46
		0	731-0801	25.20	22.68
		4	731-0820	27.20	24.48
		2	731-0840	32.34	29.11
10"	1" x 1/4"	00	731-1002	34.44	31.00
		0	731-1001	34.44	31.00
		2	731-1020	37.38	33.64

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Swiss Precision Files, continued

Knife-Edge

Tapered in width and thickness. Knife edge has the same thickness from point to shoulder. The included angle of the sharp edge is approximately 10°. Generally used to file in a slot or wedge-shaped opening. Curved knife edge allows easy filing in restricted areas. Double cut on both sides; top edge is safe while knife edge is single cut.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
4"	15/32" x 1/8"	2	**745-0420**	**$24.99**	**$22.49**
		4	**745-0440**	**29.19**	**26.27**
6"	23/32" x 5/32"	00	**745-0602**	**25.83**	**23.25**
6"	23/32" x 5/32"	0	**745-0601**	**$27.20**	**$24.48**
		2	**745-0620**	**29.51**	**26.56**
		4	**745-0640**	**34.34**	**30.91**

Pillar, Demi-Narrow

Pillar files are more narrow than hand files, yet also parallel in width and tapered in thickness to create perfectly flat filing. Double cut on the flat sides only, both edges are safe.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
6"	3/8" x 5/32"	0	**738-0601**	**$64.05**	**$57.65**
		1	**738-0610**	**36.23**	**32.61**
6"	3/8" x 5/32"	2	**738-0620**	**$39.27**	**$35.34**

Pillar, Extra-Narrow

These very narrow files are parallel in width and tapered in thickness to create perfectly flat filing. Double cut on the flat sides only, both edges are safe.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
3"	1/8" x 5/64"	2	**740-0320**	**$19.01**	**$17.11**
4"	5/32" x 5/64"	00	**740-0402**	**17.22**	**15.50**
		0	**740-0401**	**18.17**	**16.35**
		2	**740-0420**	**19.64**	**17.68**
		4	**740-0440**	**22.89**	**20.60**
6"	13/64" x 1/8"	00	**740-0602**	**20.16**	**18.14**
		0	**740-0601**	**21.42**	**19.28**
6"	13/64" x 1/8"	1	**740-0610**	**$22.47**	**$20.22**
		2	**740-0620**	**23.10**	**20.79**
		4	**740-0640**	**26.99**	**24.29**
		6	**740-0660**	**47.04**	**42.34**
8"	9/32" x 9/64"	00	**740-0802**	**27.93**	**25.14**
		0	**740-0801**	**29.40**	**26.46**
		2	**740-0820**	**31.82**	**28.64**

Pillar, Narrow

Parallel in width and tapered in thickness. Double cut on the flat sides only, edges are safe.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
4"	3/16" x 3/32"	00	**739-0402**	**$18.17**	**$16.35**
		0	**739-0401**	**19.11**	**17.20**
		2	**739-0420**	**20.69**	**18.62**
		4	**739-0440**	**24.15**	**21.74**
6"	1/4" x 9/64"	00	**739-0602**	**21.42**	**19.28**
		0	**739-0601**	**22.58**	**20.32**
6"	1/4" x 9/64"	1	**739-0610**	**$23.63**	**$21.27**
		2	**739-0620**	**24.47**	**22.02**
		4	**739-0640**	**28.56**	**25.70**
		6	**739-0660**	**46.62**	**41.96**
8"	11/32" x 11/64"	0	**739-0801**	**31.08**	**27.97**
		2	**739-0820**	**26.25**	**23.63**

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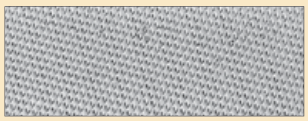
Swiss Precision Files, continued



American Cut – Bastard Swiss Cut – 00

American Cut – Second Swiss Cut – 0

American Cut – Smooth Swiss Cut – 2

Pillar, Regular

A general-purpose file used primarily for working on flat surfaces. Because pillar files are available in various widths, they are adaptable to filing in slots, keyways, splines and similar areas. Parallel in width and tapered in thickness to provide perfectly flat filing. Double cut top and bottom, both edges are safe.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	EACH Prices 12+
4"	3/8" x 1/8"	00	737-0402	$15.23	$13.71
		0	737-0401	16.07	14.46
		2	737-0420	17.54	15.79
		6	737-0440	20.37	18.33
6"	1/2" x 11/64"	00	737-0602	18.06	16.25
		0	737-0601	19.01	17.11
		1	737-0610	19.95	17.96
		2	737-0620	16.49	14.84
6"	1/2" x 11/64"	4	737-0630	$21.95	$19.76
		6	737-0640	23.84	21.46
8"	19/32" x 19/64"	0	737-0801	26.25	23.63
		2	737-0820	28.46	25.61
10"	23/32" x 15/64"	00	737-1002	34.13	30.72
		0	737-1001	36.12	32.51
		2	737-1020	38.85	34.97

Pippin

Tapered in width and thickness. Combines the cross sections of round and crossing files along with the edge of a knife file. For finishing the junction of two different curved surfaces and for opening slots when a "V" shape is required. Double cut on both sides; top and bottom edges are single cut.

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	EACH Prices 12+
6"	25/64" x 9/64"	0	747-0601	$59.01	$53.11
6"	25/64" x 9/64"	2	747-0620	$63.74	$57.37

Round, Parallel

Double cut over the entire surface. The 4" length is available in 1/16" and 1/8" diameters. The 6" length is available in 3/32", 1/8", 5/32" and 3/16" diameters.

Length of Cut	Diameter	Cut	Item#	EACH Prices 1-11	EACH Prices 12+
4"	1/16"	0	733-4501	$15.65	$14.09
		2	733-4520	17.54	15.79
4"	1/8"	0	733-4401	18.27	16.44
6"	3/32"	0	733-3601	21.21	19.09
		2	733-3620	23.10	20.79
6"	1/8"	0	733-4601	21.21	19.09
6"	1/8"	2	733-4620	$23.10	$20.79
6"	5/32"	0	733-5601	22.05	19.85
		2	733-5620	24.36	21.92
6"	3/16"	00	733-6602	21.00	18.90
		0	733-6601	22.05	19.85
		2	733-6620	23.21	20.89

Round, Tapered

Gradually tapered. Cut and workable to the point. Used where it is necessary to enlarge a hole or round off a radius. Double cut.

Length of Cut	Diameter	Cut	Item#	EACH Prices 1-11	EACH Prices 12+
4"	1/4"	1	732-0410	$15.23	$13.71
		2	732-0420	15.86	14.27
		4	732-0440	18.48	16.63
6"	1/4"	0	732-0601	15.12	13.61
		2	732-0620	18.59	16.73
6"	1/4"	4	732-0640	$21.63	$19.47
		6	732-0660	35.49	31.94
8"	5/16"	1	732-0810	24.78	22.30
		2	732-0820	25.62	23.06

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Swiss Precision Files, continued

Square

Gradually tapered and double cut on all four sides. Cut and usable to the point. A general-purpose file.

Length of Cut	Diameter	Cut	Item#	EACH Prices 1-11	12+
6"	15/64"	0	**743-0601**	**$19.85**	**$17.87**
		2	**743-0620**	**21.42**	**19.28**
		4	**743-0640**	**25.83**	**23.25**
8"	5/16"	0	**743-0801**	**$26.04**	**$23.44**
		2	**743-0820**	**29.72**	**26.75**

Three-Square

Triangular profile. Gradually tapered, and cut workable to the point. Double cut on all three sides.

Length of Cut	Size	Cut	Item#	EACH Prices 1-11	12+
4"	9/32"	1	**734-0410**	**$19.32**	**$17.39**
6"	3/8"	0	**734-0601**	**21.74**	**19.57**
		1	**734-0610**	**22.79**	**20.51**
6"	3/8"	2	**734-0620**	**$23.63**	**$21.27**
		4	**734-0640**	**27.51**	**24.76**

Warding

Parallel in thickness and tapered in width. Good for deburring. Double cut top and bottom, both edges are single cut.

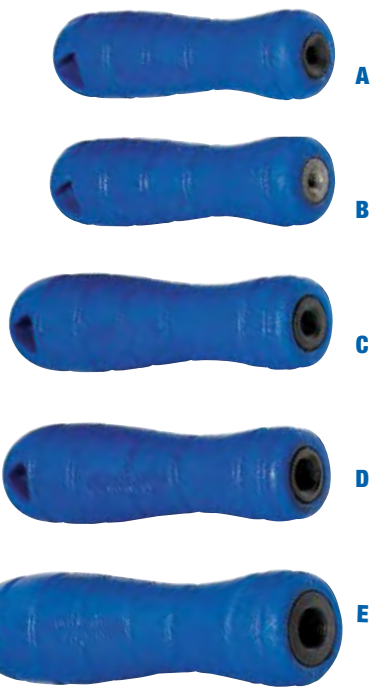
Length of Cut	Diameter	Cut	Item#	EACH Prices 1-11	12+
4"	1/2" x 5/64"	00	**749-0402**	**$18.80**	**$16.92**
		0	**749-0401**	**19.95**	**17.96**
		2	**749-0420**	**21.42**	**19.28**

Length of Cut	Width x Thickness	Cut	Item#	EACH Prices 1-11	12+
4"	1/2" x 5/64"	4	**749-0440**	**$24.99**	**$22.49**
6"	5/8" x 5/64"	2	**749-0620**	**25.31**	**22.78**
		4	**749-0640**	**29.40**	**26.46**

A-E Grobet Plastic File Handles

Virtually unbreakable plastic handles shaped and textured to fit your hand comfortably and prevent slipping. Feature tempered metal tang-holding inserts that are threaded to ensure proper alignment and positive grip. Allow easy file changes: just unscrew the file in use and screw in another. Have holes at top for hanging near your workbench.

Description	Item#	EACH Prices 1-11	12+
A. #2 Handle	**170-6002**	**$3.25**	**$2.93**
B. #3 Handle	**170-6003**	**3.25**	**2.93**
C. #4 Handle	**170-6004**	**3.35**	**3.02**
D. #5 Handle	**170-6005**	**3.35**	**3.02**
E. #6 Handle	**170-6006**	**3.50**	**3.15**



Handle Selection Guide:

File Shape	File Length 3"	4"	6"	8"	10"	12"
Barrette	2	3	4	5	–	–
Checkering	–	–	4	–	–	–
Crochet	–	3	4	5	–	–
Crossing	–	3	4	5	–	–
Equalling	–	3	4	5	–	–
Half-Round	–	3	4	5	6	6
Hand	–	3	4	5	6	6
Knife-Edge	–	3	4	5	6	6

File Shape	File Length 3"	4"	6"	8"	10"	12"
Pillar	2	3	4	5	6	6
Pippin	–	3	4	5	–	–
Round, Parallel	–	–	2	3	–	–
Round, Tapered	–	2	3	4	5	–
Square	–	2	3	4	5	–
Three-Square	2	3	4	5	6	6
Warding	–	3	4	5	–	–

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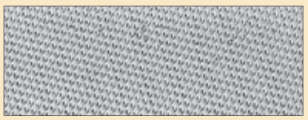
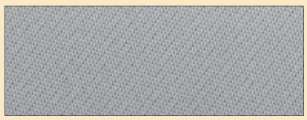
American Pattern Files

They are uniform in cut to permit fast metal removal. Extremely durable and scientifically balanced, each file is the product of a long tradition of superior craftsmanship combined with the most advanced technology. Every file is heat-treated to exacting standards to provide top performance and long life. Files are unsurpassed in accuracy of shape and size. Handle section (tang) is not considered in file length.



American Cut – Bastard Swiss Cut – 00

American Cut – Second Swiss Cut – 0



American Cut – Smooth Swiss Cut – 2

Flat (End Tapered)

Universally used by all machinists, this file is recommended for fast stock removal where a smooth finish is not required. Double cut top and bottom; edges are single cut. Differs from the mill file in that it has a thicker cross section.

Length of Cut	Width x Thickness	Cut	Item#	Each
6"	5/8" x 5/32"	Bastard	**770-0627**	**$3.00**
		Second	**770-0628**	**3.25**
		Smooth	**770-0629**	**3.75**
8"	25/32" x 7/32"	Bastard	**770-0827**	**4.10**
		Second	**770-0828**	**4.45**
		Smooth	**770-0829**	**4.80**

Length of Cut	Thickness	Cut	Item#	Each
10"	31/32" x 1/4"	Bastard	**770-1027**	**$5.30**
		Second	**770-1028**	**5.70**
		Smooth	**770-1029**	**6.25**
12"	15/32" x 9/32"	Bastard	**770-1227**	**8.10**
		Second	**770-1228**	**8.70**
		Smooth	**770-1229**	**9.30**

Half-Round

In addition to being widely used by machinists, this file is also popular in foundries where castings must be finished by filing. Rounded to approximately a third of a round on one side and double cut flat on the other. The round side is double cut as well except on all smooth and 6" second cut, which are single cut.

Length of Cut	Width x Thickness	Cut	Item#	Each
6"	19/32" x 5/32"	Bastard	**770-0667**	**$4.80**
		Second	**770-0668**	**9.90**
		Smooth	**770-0669**	**5.45**
8"	3/4" x 7/32"	Bastard	**770-0867**	**6.10**
		Second	**770-0868**	**6.70**
		Smooth	**770-0869**	**7.20**

Length of Cut	Width x Thickness	Cut	Item#	Each
10"	15/16" x 9/32"	Bastard	**770-1067**	**$8.05**
		Second	**770-1068**	**9.40**
		Smooth	**770-1069**	**9.60**
12"	1 1/8" x 11/32"	Bastard	**770-1267**	**12.05**
		Second	**770-1268**	**12.90**
		Smooth	**770-1269**	**13.85**

Hand

Similar to a flat file but tapered in thickness with one safe edge. This uncut edge allows filing of one surface without damaging an adjoining surface. Especially useful when filing up to a sharp corners. Double cut top and bottom. One edge single, the other is safe.

Length of Cut	Width x Thickness	Cut	Item#	Each
6"	5/8" x 5/32"	Smooth	**770-0639**	**$3.75**
8"	25/32" x 7/32"	Bastard	**770-0837**	**4.10**
		Second	**770-0838**	**4.40**
		Smooth	**770-0839**	**4.80**

Length of Cut	Width x Thickness	Cut	Item#	Each
10"	31/32" x 1/4"	Bastard	**770-1037**	**$5.25**
		Second	**770-1038**	**5.70**
		Smooth	**770-1039**	**6.25**

Mill

Used in machine shops as a general-purpose file and for draw filing, lathe work and finishing operations on hard materials. Often used in conjunction with a flat or hand file as a finishing file after the "hogging off" operation. Double cut on top and bottom, both edges are single cut.

Length of Cut	Width x Thickness	Cut	Item#	Each
6"	5/8" x 5/32"	Bastard	**770-0617**	**$2.70**
		Second	**770-0618**	**2.95**
		Smooth	**770-0619**	**3.50**
8"	25/32" x 7/32"	Bastard	**770-0817**	**3.50**
		Second	**770-0818**	**3.85**
		Smooth	**770-0819**	**4.10**
10"	31/32" x 1/4"	Bastard	**770-1017**	**$4.50**
		Second	**770-1018**	**4.95**
		Smooth	**770-1019**	**5.50**
12"	15/32" x 7/32"	Bastard	**770-1217**	**6.25**
		Second	**770-1218**	**6.65**
		Smooth	**770-1219**	**6.70**

Round

Designed for filing concave surfaces that have a smaller radius than a half-round file, enlarging round holes and making a corner radius. Tapered file is double cut.

Length of Cut	Diameter	Cut	Item#	Each
6"	7/32"	Bastard	**770-0677**	**$2.95**
		Second	**770-0678**	**2.95**
		Smooth	**770-0679**	**3.20**
8"	5/16"	Bastard	**770-0877**	**3.70**
		Second	**770-0878**	**3.70**
		Smooth	**770-0879**	**3.75**
10"	3/8"	Bastard	**770-1077**	**$4.80**
		Second	**770-1078**	**4.80**
		Smooth	**770-1079**	**5.20**
12"	1/2"	Bastard	**770-1277**	**7.10**
		Second	**770-1278**	**7.10**
		Smooth	**770-1279**	**7.50**

Square

Perfectly square tapering toward the point. Used for enlarging slots, keyways, grooves and holes that have right angles and for filing flat surfaces. All four sides are double cut.

Length of Cut	Width	Cut	Item#	Each
6"	7/32"	Bastard	**770-0647**	**$3.50**
		Second	**770-0648**	**3.75**
		Smooth	**770-0649**	**3.85**
8"	5/16"	Bastard	**770-0847**	**3.85**
		Second	**770-0848**	**4.15**
		Smooth	**770-0849**	**4.50**
10"	3/8"	Bastard	**770-1047**	**$5.30**
		Second	**770-1048**	**5.50**
		Smooth	**770-1049**	**5.85**
12"	1/2"	Bastard	**770-1247**	**7.60**
		Second	**770-1248**	**15.18**
		Smooth	**770-1249**	**16.73**

Three-Square

Triangular double cut file. Tapers toward the point and has sharp corners. Used to file acute internal angles that cannot be reached with rectangular files.

Length of Cut	Width	Cut	Item#	Each
6"	7/16"	Bastard	**770-0657**	**$3.85**
		Second	**770-0658**	**4.00**
		Smooth	**770-0659**	**4.20**
8"	5/16"	Bastard	**770-0857**	**4.95**
		Second	**770-0858**	**5.40**
8"	5/16"	Smooth	**770-0859**	**$5.50**
10"	3/4"	Bastard	**770-1057**	**6.70**
		Second	**770-1058**	**7.10**
		Smooth	**770-1059**	**7.60**

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Swiss Needle Files

Swiss needle files are used for precision work in small areas. Finest quality files made. Made of the highest quality steel, machined and finished for precision shape, accuracy and balance. Teeth are sharp and cross-cut, assuring even filing. Recommended for both soft and hard metals, including platinum. Also used for removing, smoothing and shaping plastic and wood. Round knurled handles to provide a sure grip. Length measurements include handle. Length 4" (10 cm) has cut portion of 1¾" (44 mm), Length 6¼" (16 cm) has cut portion, Length 5½" (14 cm) has cut portion of 2½" (64 mm), Length 7¾" (20 cm) has cut portion of 4⅛" (105 mm).

Barrette

Tapered in width and thickness, coming to a point. Only flat side is cut, providing safe edge and top.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
00	3	6¼	16	**715-1029**	**$7.98**	**$7.18**
0	1½	4	10	**705-1020**	**10.82**	**9.74**
	2½	5½	14	**710-1020**	**9.03**	**8.13**
	3	6¼	16	**715-1020**	**7.98**	**7.18**
	4⅛	7¾	20	**720-1020**	**10.29**	**9.26**
2	1½	4	10	**705-1022**	**10.82**	**9.74**
	2½	5½	14	**710-1022**	**9.03**	**8.13**
2	3	6¼	16	**715-1022**	**$7.98**	**$7.18**
	4⅛	7¾	20	**720-1022**	**10.29**	**9.26**
4	1½	4	10	**705-1024**	**11.97**	**10.77**
	2½	5½	14	**710-1024**	**9.24**	**8.32**
	3	6¼	16	**715-1024**	**8.40**	**7.56**
	4⅛	7¾	20	**720-1024**	**11.55**	**10.40**
6	3	6¼	16	**715-1026**	**11.03**	**9.93**

Crochet

Tapered in width and gradually tapered in thickness. Used for filing junctions between flat and curved surfaces and for developing slots with rounded edges.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
0	1½	4	10	**705-1080**	**$11.45**	**$10.31**
	2½	5½	14	**710-1080**	**9.35**	**8.42**
	3	6¼	16	**715-1080**	**8.51**	**7.66**
2	1½	4	10	**705-1082**	**$11.45**	**$10.31**
	2½	5½	14	**710-1082**	**9.35**	**8.42**
	3	6¼	16	**715-1082**	**8.51**	**7.66**

Crossing

Half-round on two sides with one side having a larger radius than the other. Tapered in width and thickness. Cut and usable to the point. Used primarily for filing interior curved surfaces. The double radius allows filing at the junction of two curved surfaces or of a straight and curved surface.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
0	1½	4	10	**705-1090**	**$13.76**	**$12.38**
	2½	5½	14	**710-1090**	**10.71**	**9.64**
	3	6¼	16	**715-1090**	**9.24**	**8.32**
	4⅛	7¾	20	**720-1090**	**11.97**	**10.77**
2	1½	4	10	**705-1092**	**13.76**	**12.38**
	2½	5½	14	**710-1092**	**10.71**	**9.64**
2	3	6¼	16	**715-1092**	**$9.24**	**$8.32**
	4⅛	7¾	20	**720-1092**	**11.97**	**10.77**
4	2½	5½	14	**710-1094**	**11.34**	**10.21**
	3	6¼	16	**715-1094**	**10.29**	**9.26**
	4⅛	7¾	20	**720-1094**	**13.44**	**12.10**
6	3	6¼	16	**715-1096**	**12.71**	**11.44**

Equalling

Parallel in width and thickness. Used primarily for filing slots and corners.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
00	2½	5½	14	**710-1101**	**$8.61**	**$7.75**
	3	6¼	16	**715-1109**	**7.14**	**6.43**
0	1½	4	10	**705-1100**	**9.66**	**8.69**
	2½	5½	14	**710-1100**	**7.98**	**7.18**
	3	6¼	16	**715-1100**	**7.14**	**6.43**
	4⅛	7¾	20	**720-1100**	**9.98**	**8.98**
2	1½	4	10	**705-1102**	**9.66**	**8.69**
	2½	5½	14	**710-1102**	**7.98**	**7.18**
2	3	6¼	16	**715-1102**	**$7.14**	**$6.43**
	4⅛	7¾	20	**720-1102**	**9.98**	**8.98**
4	1½	4	10	**705-1104**	**10.61**	**9.55**
	2½	5½	14	**710-1104**	**8.40**	**7.56**
	3	6¼	16	**715-1104**	**7.46**	**6.71**
	4⅛	7¾	20	**720-1104**	**10.40**	**9.36**
6	3	6¼	16	**715-1106**	**9.77**	**8.79**

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Swiss Needle Files, continued

Half-Round

Tapered in width and thickness, coming to a point. Cut on both sides.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
00	3	6¼	16	**715-1039**	**$9.24**	**$8.32**
0	1½	4	10	**705-1030**	**13.02**	**11.72**
	2½	5½	14	**710-1030**	**10.50**	**9.45**
	3	6¼	16	**715-1030**	**9.24**	**8.32**
	4⅛	7¾	20	**720-1030**	**11.97**	**10.77**
2	1½	4	10	**705-1032**	**13.02**	**11.72**
	2½	5½	14	**710-1032**	**10.50**	**9.45**
2	3	6¼	16	**715-1032**	**$9.24**	**$8.32**
	4⅛	7¾	20	**720-1032**	**11.97**	**10.77**
4	1½	4	10	**705-1034**	**15.65**	**14.09**
	2½	5½	14	**710-1034**	**11.34**	**10.21**
	3	6¼	16	**715-1034**	**10.29**	**9.26**
	4⅛	7¾	20	**720-1034**	**13.44**	**12.10**
6	3	6¼	16	**715-1036**	**12.71**	**11.44**

Knife-Edge

Tapered in width and thickness. Knife edge has the same thickness from point to shoulder. The included angle of the sharp edge is approximately 10°. Generally used to file in a slot or wedge-shaped opening. Curved knife edge allows easy filing in restricted areas.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
0	1½	4	10	**705-1110**	**$12.81**	**$11.53**
	2½	5½	14	**710-1110**	**10.08**	**9.07**
	3	6¼	16	**715-1110**	**8.93**	**8.04**
	4⅛	7¾	20	**720-1110**	**11.66**	**10.49**
2	1½	4	10	**705-1112**	**12.81**	**11.53**
	2½	5½	14	**710-1112**	**10.08**	**9.07**
2	3	6¼	16	**715-1112**	**$8.93**	**$8.04**
	4⅛	7¾	20	**720-1112**	**11.66**	**10.49**
4	2½	5½	14	**710-1114**	**11.13**	**10.02**
	3	6¼	16	**715-1114**	**9.98**	**8.98**
	4⅛	7¾	20	**720-1114**	**13.13**	**11.82**
6	3	6¼	16	**715-1116**	**12.39**	**11.15**

Marking

Identical to half-round, but cut on round side only. Flat side is safe.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
2	3	6¼	16	**715-1122**	**$8.93**	**$8.04**
4	3	6¼	16	**715-1124**	**9.98**	**8.98**

Oval

Oval shape, gradually tapered to tip. Cut and workable to the point. Used for filing interior curved surfaces.

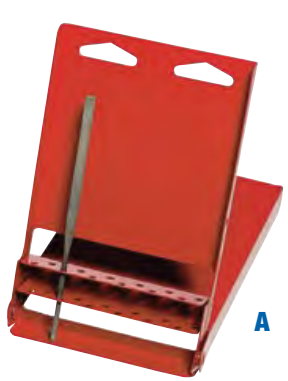
Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
0	3	6¼	16	**715-1140**	**$8.72**	**$7.85**
2	3	6¼	16	**715-1142**	**8.72**	**7.85**
4	3	6¼	16	**715-1144**	**9.77**	**8.79**

A. Needle File Stand

Keeps needle files organized and accessible.

This attractive metal stand conveniently holds and displays up to 12 needle files in 4", 5½" or 6¼" lengths. Freestanding on workbench, hanging on peg or snapped closed for carrying, it keeps your frequently used files visible and handy at all times. File not included.

Description	Item#	Each
Needle File Stand	**704-3070**	**$23.84**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Swiss Needle Files, continued

Round

Gradually tapered. Cut and workable to the point. Used where it is necessary to enlarge a hole or round off a radius.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
00	3	6 1/4	16	**715-1059**	**$7.14**	**$6.43**
0	1 1/2	4	10	**705-1050**	**10.19**	**9.17**
	2 1/2	5 1/2	14	**710-1050**	**8.30**	**7.47**
	3	6 1/4	16	**715-1050**	**7.14**	**6.43**
	4 1/8	7 3/4	20	**720-1050**	**9.14**	**8.23**
2	1 1/2	4	10	**705-1052**	**10.19**	**9.17**
	2 1/2	5 1/2	14	**710-1052**	**8.40**	**7.56**
2	3	6 1/4	16	**715-1052**	**$7.14**	**$6.43**
	4 1/8	7 3/4	20	**720-1052**	**9.14**	**8.23**
4	1 1/2	4	10	**705-1054**	**12.29**	**11.06**
	2 1/2	5 1/2	14	**710-1054**	**8.82**	**7.94**
	3	6 1/4	16	**715-1054**	**7.88**	**7.09**
	4 1/8	7 3/4	20	**720-1054**	**10.19**	**9.17**
6	3	6 1/4	16	**715-1056**	**9.77**	**8.79**

Square

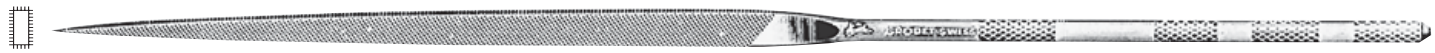
Gradually tapered and cut on all four sides. Cut and usable to the point. A general-purpose file.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
00	3	6 1/4	16	**715-2069**	**$7.98**	**$7.18**
0	1 1/2	4	10	**705-1060**	**11.13**	**10.02**
	2 1/2	5 1/2	14	**710-1060**	**9.24**	**8.32**
	3	6 1/4	16	**715-2060**	**7.98**	**7.18**
	4 1/8	7 3/4	20	**720-1060**	**10.29**	**9.26**
2	1 1/2	4	10	**705-1062**	**11.13**	**10.02**
	2 1/2	5 1/2	14	**710-1062**	**9.24**	**8.32**
2	3	6 1/4	16	**715-2062**	**$7.98**	**$7.18**
	4 1/8	7 3/4	20	**720-1062**	**10.29**	**9.26**
4	1 1/2	4	10	**705-1064**	**11.13**	**10.02**
	2 1/2	5 1/2	14	**710-1064**	**9.98**	**8.98**
	3	6 1/4	16	**715-2064**	**8.82**	**7.94**
	4 1/8	7 3/4	20	**720-1064**	**11.55**	**10.40**
6	3	6 1/4	16	**715-2066**	**11.03**	**9.93**

Three-Square

Gradually tapered and cut to the point.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
00	3	6 1/4	16	**715-1069**	**$7.98**	**$7.18**
0	1 1/2	4	10	**705-1010**	**11.34**	**10.21**
	2 1/2	5 1/2	14	**710-1010**	**9.24**	**8.32**
	3	6 1/4	16	**715-1060**	**7.98**	**7.18**
	4 1/8	7 3/4	20	**720-1010**	**10.29**	**9.26**
2	1 1/2	4	10	**705-1012**	**11.34**	**10.21**
	2 1/2	5 1/2	14	**710-1012**	**12.30**	**11.07**
2	3	6 1/4	16	**715-1062**	**$7.98**	**$7.18**
	4 1/8	7 3/4	20	**720-1012**	**10.29**	**9.26**
4	1 1/2	4	10	**705-1014**	**11.39**	**10.25**
	2 1/2	5 1/2	14	**710-1014**	**9.98**	**8.98**
	3	6 1/4	16	**715-1064**	**8.82**	**7.94**
	4 1/8	7 3/4	20	**720-1014**	**11.55**	**10.40**
6	3	6 1/4	16	**715-1066**	**11.03**	**9.93**



Warding

Parallel in thickness and tapered in width. Good for deburring.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	EACH Prices 1-11	12+
0	2 1/2	5 1/2	14	**710-1070**	**$9.03**	**$8.13**
	3	6 1/4	16	**715-1070**	**7.98**	**7.18**
	4 1/8	7 3/4	20	**720-1070**	**10.29**	**9.26**
2	2 1/2	5 1/2	14	**715-1072**	**7.98**	**7.18**
	3	6 1/4	16	**710-1072**	**9.03**	**8.13**
2	4 1/8	7 3/4	20	**720-1072**	**$10.29**	**$9.26**
4	2 1/2	5 1/2	14	**710-1074**	**9.24**	**8.32**
	3	6 1/4	16	**715-1074**	**8.40**	**7.56**
	4	7 3/4	20	**720-1074**	**11.87**	**10.68**

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A. Swiss Needle File Sets

Each includes 12 of our most popular files in one cut. 14mm and 16mm come in a storage pouch.

Cut	Cut Length (inches)	Overall Length (inches)	(cm)	Item#	SET of 12
0	1½	4	10	**703-1000**	**$133.35**
	2½	5½	14	**703-1400**	**107.00**
	3	6¼	16	**703-1600**	**114.95**
2	1½	4	10	**703-1020**	**134.35**
	2½	5½	14	**703-1420**	**107.00**
	3	6¼	16	**703-1620**	**113.95**
4	2½	5½	14	**703-1440**	**114.50**
	3	6¼	16	**703-1640**	**124.95**
6	3	6¼	16	**703-1660**	**157.45**

A

B. Plastic Needle File Handle

Durable plastic handle for holding all needle files. Measures 3¼" long.

Description	Item#	EACH Prices 1-11	12+
Plastic File Handle	**170-4010**	**$5.50**	**$4.68**

B

C. Wooden File Handle with Collet

Wooden handle with metal collet for needle and escapement files. Measures 4½" long.

Description	Item#	Each
Wooden File Handle with Collet	**170-4013**	**$4.80**

C

D. Wooden File Handles

Wooden handles with metal ferrules for needle and escapement files. Measure 4" long.

	Description	Diameter	Item#	EACH Prices 1-11	12+
D.	Wooden File Handle	⅜"	**170-6010**	**$0.95**	**$0.86**
		⅝"	**170-6011**	**0.95**	**0.86**

D

E. Contoured Wooden File Handles

Polished wooden handles with metal ferrules for needle, escapement and pattern files.

Description	Length	Item#	EACH Prices 1-2	3-9	10+
Needle/Escapement File Handle	3½"	**170-4011**	**$1.10**	**$1.05**	**$0.99**
	4"	**170-4012**	**1.10**	**1.05**	**0.99**

E

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A-G Valtitan Needle Files – For hard metals.

Valtitan files provide excellent performance on hard-to-file surfaces and hard metals. Feature exceptional hardness of 72 HRC and corrosion resistance for long life. Best of all, they won't clog—one knock is enough to remove metal chips. Handles are yellow for quick identification. Measure approx. 18cm (7") long. Made in Switzerland. Valtitan hand files are also available (see p. 310).

	Style	Shape	Cut 0 Item#	Cut 2 Item#	EACH Prices 1-2	3-11*	12+*
A.	Equalling		702-0021	702-0022	$13.02	$12.37	$11.72
B.	Half-Round		702-0026	702-0027	15.38	14.61	13.84
C.	Three-Square		702-0031	702-0032	13.60	12.92	12.24
D.	Square		702-0036	702-0037	13.60	12.92	12.24
E.	Round		702-0041	702-0042	12.97	12.32	11.67
F.	Barrette		702-0046	702-0047	14.44	13.72	13.00
G.	6-Piece Set		702-0051	702-0052	81.06	-	-

**Quantity discount for orders of one item number only; not assorted.*

H-N Econo Swiss Needle Files

Economical chrome alloy steel Swiss needle files. Measure 5½" (14cm) long. Can be used with file handles (see p. 312). Sold individually and a set of six shapes.

	Description	Shape	Cut	Item#	EACH Prices 1-11	12+
H.	Barrette		2	704-3012	$4.48	$3.73
			4	704-3014	4.66	3.88
I.	Equalling		2	704-3022	4.48	3.73
			4	704-3024	4.60	3.83
J.	Half-Round		2	704-3032	5.37	4.47
			4	704-3034	5.43	4.52
K.	Round		2	704-3042	4.48	3.73
			4	704-3044	4.60	3.83
L.	Square		2	704-3052	4.48	3.73
M.	Three-Square		2	704-3062	4.48	3.73
			4	704-3064	4.71	3.92
N.	6-Piece Set		2	704-3002	29.77	-
			4	704-3004	31.97	-

O. Econo Mini Needle File Set

An inexpensive set of 12 miniature needle files in our most popular shapes. Excellent for getting into tight spots and tiny settings. Files measure 4" (10cm) long.

Description	Cut	Item#	Each
12-Piece Set	2	705-1000	$11.45

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Swiss Escapement Files

Sometimes known as square-handled needle files, escapement files are used for filing even smaller items such as fine extrusion dies and making fine repairs. Measure 14cm (5½") long with 1½" to 2½" cut length.

Barrette

Tapered in width and thickness, coming to a point. Only flat side is cut, providing safe edge and top.

Cut	Overall inches	Length cm	Item#	EACH Prices 1-11	12+
0	5½	14	**725-1100**	**$16.17**	**$14.55**
2			**725-1102**	**16.28**	**14.65**
4			**725-1104**	**17.64**	**15.88**
6	5½	14	**725-1106**	**$20.58**	**$18.52**
8			**725-1108**	**21.53**	**19.38**

Barrette, Parallel

Same as Barrette (above) but with parallel sides.

Cut	Overall inches	Length cm	Item#	EACH Prices 1-11	12+
2	5½	14	**725-1112**	**$16.28**	**$14.65**
4			**725-1114**	**17.64**	**15.88**
6	5½	14	**725-1116**	**$20.58**	**$18.52**

Crossing

Half-round on two sides with one side having a slightly larger radius than the other. Tapered in width and thickness. Cut and usable to the point. Used primarily for filing interior curved surfaces. The double radius allows filing at the junction of two curved surfaces or of a straight and curved surface.

Cut	Overall inches	Length cm	Item#	EACH Prices 1-11	12+
2	5½	14	**725-1032**	**$19.01**	**$17.11**
4			**725-1034**	**20.69**	**18.62**
6	5½	14	**725-1036**	**$23.94**	**$21.55**

Equalling

Parallel in width and thickness. Used primarily for filing slots and corners.

Cut	Overall inches	Length cm	Item#	EACH Prices 1-11	12+
2	5½	14	**725-1082**	**$15.12**	**$13.61**
4			**725-1084**	**16.91**	**15.22**
6	5½	14	**725-1086**	**$19.95**	**$17.96**

Half-Round

Tapered in width and thickness, coming to a point. Cut on both sides.

Cut	Overall inches	Length cm	Item#	EACH Prices 1-11	12+
0	5½	14	**725-1020**	**$18.90**	**$17.01**
2			**725-1022**	**19.01**	**17.11**
4			**725-1024**	**20.69**	**18.62**
6	5½	14	**725-1026**	**$23.94**	**$21.55**
8			**725-1028**	**25.10**	**22.59**

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Swiss Escapement Files, continued

Knife-Edge

Tapered in width and thickness. Knife edge has the same thickness from point to shoulder. The included angle of the sharp edge is approximately 10°. Generally used to file in a slot or wedge-shaped opening. Curved knife edge allows easy filing in restricted areas.

Cut	Overall Length inches	cm	Item#	EACH Prices 1-11	12+
2	5½	14	**725-1092**	**$18.80**	**$16.92**
4			**725-1094**	**20.58**	**18.52**
6	5½	14	**725-1096**	**$23.73**	**$21.36**

Round

Gradually tapered. Cut and workable to the point. Used where it is necessary to enlarge a hole or round off a radius.

Cut	Overall Length inches	cm	Item#	EACH Prices 1-11	12+
0	5½	14	**725-1010**	**$13.44**	**$12.10**
2			**725-1012**	**13.44**	**12.10**
4			**725-1014**	**14.49**	**13.04**
6	5½	14	**725-1016**	**$14.60**	**$13.14**
8			**725-1018**	**17.01**	**15.31**

Rounding Off

Cut on flat side only.

Cut	Overall Length inches	cm	Item#	EACH Prices 1-11	12+
4	5½	14	**725-1124**	**$19.01**	**$17.11**
6	5½	14	**725-1126**	**$21.95**	**$19.76**

Square

Gradually tapered and cut on all four sides. Cut and usable to the point. A general-purpose file.

Cut	Overall Length inches	cm	Item#	EACH Prices 1-11	12+
0	5½	14	**725-1040**	**$16.38**	**$14.74**
2			**725-1042**	**16.49**	**14.84**
4			**725-1044**	**18.59**	**16.73**
6	5½	14	**725-1046**	**$20.79**	**$18.71**
8			**725-1048**	**21.74**	**19.57**

Three-Square

Gradually tapered and cut to the point.

Cut	Overall Length inches	cm	Item#	EACH Prices 1-11	12+
0	5½	14	**725-1050**	**$16.17**	**$14.55**
2			**725-1052**	**16.28**	**14.65**
4			**725-1054**	**17.64**	**15.88**
6	5½	14	**725-1056**	**$20.58**	**$18.52**
8			**725-1058**	**21.53**	**19.38**

Three-Square, Short and Slim

Cut on all three sides, tapered to a point.

Cut	Overall Length inches	cm	Item#	EACH Prices 1-11	12+
2	5½	14	**725-1062**	**$16.28**	**$14.65**
4			**725-1064**	**17.64**	**15.88**
6	5½	14	**725-1066**	**$20.58**	**$18.52**

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Swiss Escapement Files, continued

A

A. Swiss Escapement File Sets

Includes 12 popular shapes. Available in cut 2, 4 or 6.

Description	Cut	Item#	Set of 12
Swiss Escapement File Set	2	**725-2002**	**$194.25**
	4	**725-2004**	**207.90**
	6	**725-2006**	**240.45**

B. File Card – Clean files cut faster!

Features steel wire bristles mounted on a wood handle for cleaning particles caught in teeth of files. Measures 8" long.

Description	Item#	EACH Prices 1-5	6+
File Card	**816-2800**	**$7.60**	**$6.08**

B

C. Utility File Set

Six files to match any job perfectly!

Includes six American Pattern Files with wooden handles: square, half-round, three-square, round, flat and warding, all smooth cut. Comes complete with hanging pouch. File including handle measures 7" long with approx. 4" cut length.

Description	Item#	Each
Utility File Set	**705-1005**	**$17.00**

C

Guide to Selecting Swiss Precision Files

File selection cannot be reduced to a formula or table but is based to a great degree on experience. However, the chart below gives you a great starting point for file selection.

Basic Application	Type of File Recommended
Corners-holes-edges	Three-Square
Corners-holes	Square
Corners-slots	Equalling
Curved surfaces-corners-holes	Half-Round
Curved surfaces-junctures of curved and flat surfaces-corners-holes	Crossing
Flat surfaces	Hand
Flat surfaces-corners-keyways dovetail ways-gear teeth-deburring	Barrette
Flat surfaces-slots	Pillar
Roughening surfaces for hand grips	Checkering
Rounded corners-slots-flat surfaces-junctures between curved and flat surfaces	Crochet
Rounded corners-holes-"V" slots	Pippin
Rounded inside corners-holes	Round
Slots	Screwhead
Slots	Warding
Slots-wedge-shaped openings	Knife

Keep in mind, there is more to file selection than shape alone. Selecting the correct cut to use is determined by the type of the metal you're working on, as well as the amount of material to be removed and your desired finish. For example, rapid removal of stock often indicates a cut 00, while working on narrow surfaces would suggest a cut 2 and a fine cut such as cut 4 or cut 6 would be used for final finishing operations.

Types of Files

Swiss Precision Files - The original Swiss files made in hundreds of shapes and sizes.

Swiss Needle Files - A group of files of various cross-sections with a knurled, round handle. Knurling gives the file a positive, non-Slip grip for precision filing.

Escapement Files - Also called small Square Handled Needle Files. A group of files of various cross-sectioned shapes with a length of cut varying from 3¾" to 2½", with square handles.

Rifflers - Originally used and hand forged by die sinkers, die makers, silversmiths, etc., in shapes and cross-sections appropriate to their work. Teeth are cut on small areas on each end and can have a variety of shapes. A long middle portion serves as the handle.

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Swiss Valtitan Files

For platinum, stainless steel, exotic plastics, and other hard to file materials. The hardest surface known - Rockwell hardness 72HRc. Better performance on hard-to-file surfaces. Little or no clogging; a simple knock is enough to remove the chips. Highly resistant to corrosion. Longer life than standard files. Made in Switzerland.

Handles are yellow for quick identification. All Swiss Valtitan Hand Files are 6" long. Valtitan needle files are also available (see p. 306).

Barrette

Tapered in width and thickness, coming to a point. Only flat side is cut, providing safe edge and top.

Cut	Length of cut inches	Item#	EACH Prices 1-2	3-5	6+
0	6	**702-0070**	**$31.33**	**$30.39**	**$28.82**
2	6	**702-0072**	**$33.81**	**$32.80**	**$31.11**

Half-Round

Tapered in width and thickness, coming to a point. Cut on both sides.

Cut	Length of cut inches	Item#	EACH Prices 1-2	3-5	6+
0	6	**702-0090**	**$37.57**	**$36.44**	**$34.56**
2	6	**702-0092**	**$40.54**	**$39.32**	**$37.30**

Hand

Parallel in width and gently tapered in thickness for perfectly flat filing. Double cut top and bottom with one single-cut edge and one safe edge

Cut	Length of cut inches	Item#	EACH Prices 1-2	3-5	6+
00	6	**702-0079**	**$21.34**	**$20.70**	**$19.63**
0	6	**702-0080**	**22.40**	**21.73**	**20.61**
2	6	**702-0082**	**$24.17**	**$23.44**	**$22.24**

Ring

Gradually tapered. Cut and workable to the point. Used where it is necessary to enlarge a hole or round off a radius.

Cut	Length of cut inches	Item#	EACH Prices 1-2	3-5	6+
0	6	**702-0060**	**$39.48**	**$38.30**	**$36.32**
2	6	**702-0061**	**43.87**	**42.55**	**40.36**
4	6	**702-0062**	**$54.57**	**$52.93**	**$50.20**

Round

Gradually tapered. Cut and workable to the point. Used where it is necessary to enlarge a hole or round off a radius.

Cut	Length of cut inches	Item#	EACH Prices 1-2	3-5	6+
0	6	**702-0100**	**$18.07**	**$17.53**	**$16.62**
2	6	**702-0102**	**$19.92**	**$19.32**	**$18.33**

Three-Square

Triangular profile. Gradually tapered, and cut workable to the point. Double cut on all three sides.

Cut	Length of cut inches	Item#	EACH Prices 1-2	3-5	6+
0	6	**702-0110**	**$25.87**	**$25.09**	**$23.80**
2	6	**702-0112**	**$27.57**	**$26.74**	**$25.36**

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A

A-E Habilis™ Swiss Files

Habilis files are designed for those in-between jobs that are too big for needle files and require finer control than heavier files. Shaped for easy handling and balanced for efficient cutting. Feature strong, secure built-in handles. Available in five different shapes for practically every precision filing requirement. Measure 8½" long with 4" cut length. All double cut. Made in Switzerland.

Style	Shape	Cut 00 Item#	Cut 1 Item#	EACH Prices 1-9	10+*
A. Hand		**704-1000**	**704-1001**	**$17.33**	**$15.60**
B. Half-Round		**704-1010**	**704-1011**	**18.38**	**16.54**
C. Round		**704-1040**	**704-1041**	**13.81**	**12.43**
D. Square		**704-1030**	**704-1031**	**21.68**	**19.51**
E. Three-Square		**704-1020**	**704-1021**	**21.63**	**19.47**
5-Piece Set (one of each)		**704-2000**	**704-2001**	**82.53**	**-**

**Quantity discount for orders of one item number only; not assorted.*

B C D E

F G H

F-H Vulcanite Files

Select between high-quality half-round Swiss files with open teeth and an economical alternative. Used for filing and shaping plastic, wax, wood, and other soft materials. Double ended: one coarse cut, the other medium cut. Each end is ½" wide tapering to tip. Swiss available in either 7" or 8" lengths. Economy Measures 8" long.

Description	Length	Item#	Each
F. Swiss	7"	**704-0011**	**$35.18**
G. Econo	8"	**704-0020**	**10.85**

Description	Length	Item#	Each
H. Swiss	8"	**704-0010**	**$37.80**

I

I. Screwhead File with Tang

High quality steel file with smooth sides to cut only on the edge. Will not widen the slot as it deepens. Used for cleaning up marred slots on hard to replace screws or for filing .022" slots in new small screws. Measures 4½"L x 25/64"W x .022" thick, with 2⅞" cut length.

Description	Item#	1-11	12+
#2	**749-1002**	**$36.28**	**$30.84**
I. #4	**749-1000**	**36.28**	**30.84**

Description	Item#	1-11	12+
#6	**749-0999**	**$36.28**	**$30.84**
#8	**749-0998**	**36.28**	**30.84**

J-M Steel Files – For reciprocating handpieces.

High-quality steel files for reciprocating handpieces. All cut 0. Measure 80mm (3 3/16") long with 3mm shanks.

Style	Shape	Item#	Each
J. Round		**701-0500**	**$11.24**
K. Equalling		**701-0520**	**11.24**
L. Half-Round		**701-0540**	**11.24**
M. Three-Square		**701-0560**	**11.24**

J K L M

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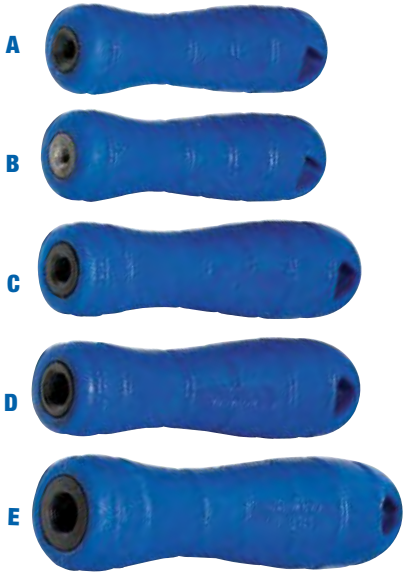
A-E Grobet Plastic File Handles

Virtually unbreakable plastic handles shaped and textured to fit your hand comfortably and prevent slipping. Feature tempered metal tang-holding inserts that are threaded to ensure proper alignment and positive grip. Allow easy file changes: just unscrew the file in use and screw in another. Have holes at top for hanging near your workbench.

Handle Selection Guide:

File Shape	File Length 3"	4"	6"	8"	10"	12"
Barrette	2	3	4	5	–	–
Checkering	–	–	4	–	–	–
Crochet	–	3	4	5	–	–
Crossing	–	3	4	5	–	–
Equalling	–	3	4	5	–	–
Half-Round	–	3	4	5	6	6
Hand	–	3	4	5	6	6
Knife-Edge	–	3	4	5	6	6

File Shape	File Length 3"	4"	6"	8"	10"	12"
Pillar	2	3	4	5	6	6
Pippin	–	3	4	5	–	–
Round, Parallel	–	–	2	3	–	–
Round, Tapered	–	2	3	4	5	–
Square	–	2	3	4	5	–
Three-Square	2	3	4	5	6	6
Warding	–	3	4	5	–	–



Description	Item#	EACH Prices 1-11	12+
A. #2 Handle	170-6002	$3.25	$2.93
B. #3 Handle	170-6003	3.25	2.93
C. #4 Handle	170-6004	3.35	3.02
D. #5 Handle	170-6005	3.35	3.02
E. #6 Handle	170-6006	3.50	3.15

F. Plastic Needle File Handle

Durable plastic handle for holding all needle files. Measures 3¼" long.

Description	Item#	EACH Prices 1-11	12+
Plastic File Handle	170-4010	$5.50	$4.68

G. Wooden File Handle with Collet

Wooden handle with metal collet for needle and escapement files. Measures 4½" long.

Description	Item#	Each
Wooden File Handle with Collet	170-4013	$4.80

H. Wooden File and Burnisher Handle

Hardwood handle with metal ferrule curved to fit in your hand. Measures 3⅞"L x ⅞" dia.

Description	Item#	Each
Wooden File and Burnisher Handle	170-3005	$2.50

I. Skroo-Zon® File Handle

A white birch handle with heavy-gauge steel ferrule. Features a hardened steel insert inside the handle that cuts a thread on the file tang to grip it firmly. Keeps strain off the handle to prevent it from breaking. Holds 6" files. Measures 4"L x 1⅛" dia.

Description	Item#	EACH Prices 1-11	12+
Skroo-Zon File Handle	170-6000	$2.58	$2.32

J. Wooden File Handles

Wooden handles with metal ferrules for needle and escapement files. Measure 4" long.

Description	Diameter	Item#	EACH Prices (3pc) 3-11	12+
J. Wooden File Handle	⅜"	170-6010	$0.95	$0.86
	⅝"	170-6011	0.95	0.86

(3pc) *Must order in quantities of three.*

vK, L Contoured Wooden File Handles

Polished wooden handles with metal ferrules for needle, escapement and pattern files.

Description	Length	Item#	EACH Prices 1-2	3-9	10+
K. Needle/Escapement File Handle	3½"	170-4011	$1.10	$1.05	$0.99
	4"	170-4012	1.10	1.05	0.99
L. Pattern File Handle	3"	170-6012	1.95	1.85	1.76
	4"	170-6013	1.95	1.85	1.76
	5"	170-6014	2.10	2.00	1.89

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Swiss Diemaker's Rifflers

For removing metal and smoothing hard-to-reach surfaces. All are double-ended, both ends identical. Measure approx. 7" overall length.

Swiss Diemaker's Rifflers

Style	Cut 0 Item#	Cut 2 Item#	EACH Prices 1-11	12+*
711	**700-7110**	**700-7112**	**$34.76**	**$31.28**
712	**700-7120**	**700-7122**	**34.76**	**31.28**
713	**700-7130**	**700-7132**	**34.76**	**31.28**
731	**700-7310**	**700-7312**	**34.76**	**31.28**
732	**700-7320**	**700-7322**	**34.76**	**31.28**
741	**700-7410**	**700-7412**	**39.59**	**35.63**
750	**700-7500**	**700-7502**	**39.59**	**35.63**
761	**700-7610**	**700-7612**	**39.59**	**35.63**
762	**700-7620**	**700-7622**	**39.59**	**35.63**
763	**700-7630**	**700-7632**	**35.91**	**32.32**
764	–	**700-7642**	**31.50**	**28.35**
771	**700-7710**	**700-7712**	**35.91**	**32.32**
781	**700-7810**	**700-7812**	**29.40**	**26.46**
790	**700-7900**	**700-7902**	**67.41**	**60.67**
796	**700-7960**	**700-7962**	**48.30**	**43.47**

**Quantity discount for orders of one item number only; not assorted.*

All double-ended.

Swiss Diemaker's Riffler Sets

Styles: 711, 713, 731, 732, 741, 750, 761, 763, 764, 771, 781, 790.

Cut 0 Item#	Cut 2 Item#	Set of 12
703-0500	**703-0520**	**$413.00**

All prices subject to change without notice.

Swiss Diesinker's Rifflers

All are double-ended files. Commonly used to shape and finish curved, unusual, or hard-to-reach surfaces. Illustrations feature one side (both sides are identical except for 905, which is straight and curved). All measure 6" long. Available individually or in sets of 12, 18 or 24 (p. 316).

Both ends shown of style 905.

Style	Cut 0 Item#	Cut 2 Item#	Cut 4 Item#	EACH Prices 1-11	12+*
900	**700-9000**	**700-9002**	**700-9004**	**$24.99**	**$22.49**
901	**700-9010**	**700-9012**	**–**	**24.26**	**21.83**
902	**700-9020**	**700-9022**	**–**	**23.84**	**21.46**
905	**700-9050**	**700-9052**	**700-9054**	**26.67**	**24.00**
911	**700-9110**	**700-9112**	**700-9114**	**27.09**	**24.38**
912	**700-9120**	**700-9122**	**700-9124**	**25.20**	**22.68**
913	**700-9130**	**700-9132**	**700-9134**	**27.20**	**24.48**
914	**700-9140**	**700-9142**	**700-9144**	**25.31**	**22.78**
915	**700-9150**	**700-9152**	**700-9154**	**25.52**	**22.97**
917	**700-9170**	**700-9172**	**–**	**25.52**	**22.97**
918	**700-9180**	**700-9182**	**–**	**27.20**	**24.48**
919	**700-9190**	**700-9192**	**–**	**32.66**	**29.39**
920	**700-9200**	**700-9202**	**700-9204**	**29.72**	**26.75**
930	**700-9300**	**700-9302**	**–**	**25.20**	**22.68**
931	**–**	**700-9312**	**700-9314**	**26.15**	**23.54**
940	**700-9400**	**700-9402**	**700-9404**	**29.72**	**26.75**
941	**700-9410**	**700-9412**	**700-9414**	**25.20**	**22.68**
942	**700-9420**	**700-9422**	**700-9424**	**28.98**	**26.08**
950	**700-9500**	**–**	**–**	**29.30**	**26.37**

**Quantity discount for orders of one item number only; not assorted.*

Swiss Diesinker's Rifflers, continued

Style	Cut 0 Item#	Cut 2 Item#	Cut 4 Item#	EACH Prices 1-11	12+*
951	700-9510	700-9512	–	$34.55	$31.10
952	700-9520	700-9522	–	34.44	31.00
953	700-9530	700-9532	–	32.66	29.39
954	700-9540	700-9542	–	35.18	31.66
955	700-9550	700-9552	–	37.28	33.55
956	700-9560	700-9562	700-9564	25.52	22.97
957	–	700-9572	–	28.56	25.70
958	700-9580	700-9582	700-9584	29.30	26.37
961	700-9610	700-9612	–	29.72	26.75
962	700-9620	700-9622	–	26.15	23.54
963	700-9630	700-9632	700-9634	30.35	27.32
964	700-9640	700-9642	700-9644	22.68	20.41
965	700-9650	700-9652	700-9654	22.68	20.41
970	700-9700	700-9702	700-9704	25.20	22.68
971	700-9710	700-9712	700-9714	25.20	22.68
972	700-9720	700-9722	–	26.36	23.72
973	700-9730	700-9732	700-9734	25.20	22.68
975	700-9750	700-9752	700-9754	25.20	22.68
981	700-9810	700-9812	700-9814	22.68	20.41
982	700-9820	700-9822	700-9824	22.68	20.41

All double-ended.

**Quantity discount for orders of one item number only; not assorted.*

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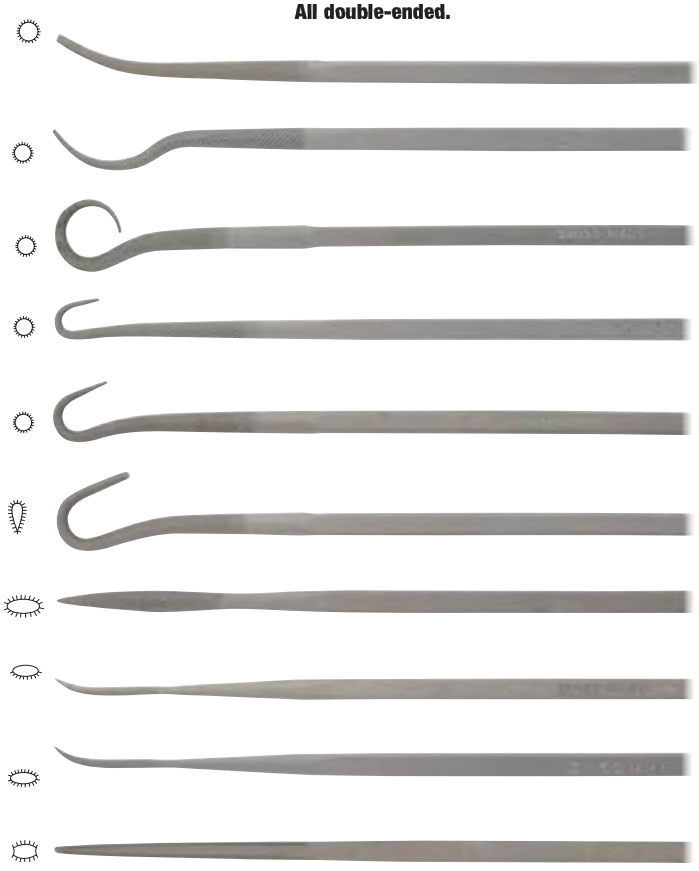
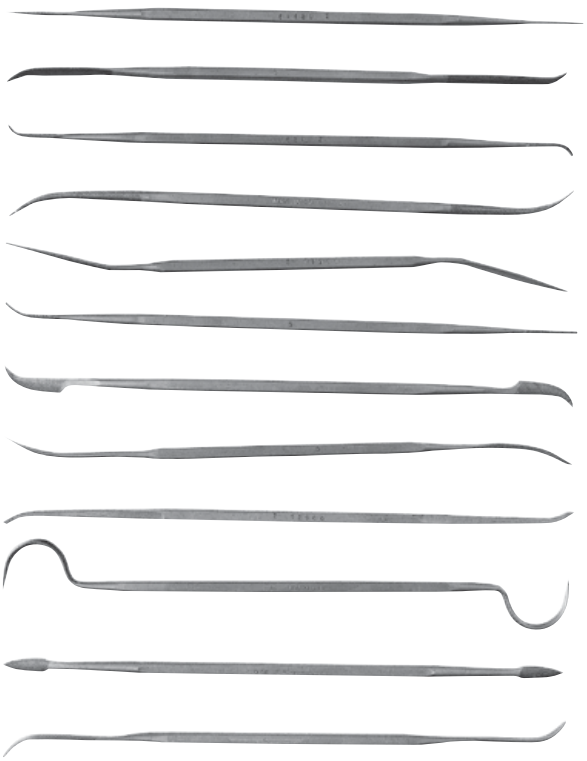
Swiss Diesinker's Rifflers, continued

All double-ended.



Style	Cut 0 Item#	Cut 2 Item#	Cut 4 Item#	EACH Prices 1-11	12+*
983	700-9830	700-9832	700-9834	$22.68	$20.41
984	700-9840	700-9842	700-9844	22.68	20.41
985	700-9850	700-9852	700-9854	22.68	20.41
986	700-9860	700-9862	700-9864	23.52	21.17
987	700-9870	700-9872	700-9874	22.68	20.41
988	700-9880	700-9882	–	22.68	20.41
990	700-9900	700-9902	–	29.72	26.75
995	700-9950	700-9952	–	24.89	22.40
996	–	700-9962	700-9964	34.86	31.37
997	700-9970	–	–	19.53	17.58

**Quantity discount for orders of one item number only; not assorted.*



A

Swiss Diesinker's Riffler Sets

A Set of 12

Styles: 900, 901, 905, 911, 919, 955, 963, 964, 971, 975, 981, 994.

	Cut 0	Cut 2 Item	Cut 4
Item#	703-0100	703-0120	703-0140
Set of 12	$299.25	$299.25	$354.85

Set of 18

Styles: 900, 941, 955, 956, 957, 958, 963, 964, 965, 971, 972, 973, 974, 975, 981, 982, 983, 994.

	Cut 0	Cut 2	Cut 4
Item#	–	703-0220	703-0240
Set of 18	–	$455.00	$514.45

Set of 24

Styles: 900, 901, 905, 911, 913, 919, 941, 955, 956, 957, 958, 963, 964, 965, 971, 972, 973, 974, 975, 981, 982, 983, 988, 994.

	Cut 0	Cut 2	Cut 4
Item#	–	703-0320	–
Set of 24	–	$603.75	–

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Spectra Diamond Files

High-quality diamond files at economical prices. Feature a combination of natural and synthetic diamonds firmly plated onto durable steel blanks. Cushioned color-coded ends. Made in Germany.

Spectra Grit Chart		
Medium	D126	120/140
Fine	D91	170/200
Very Fine	D64	230/270

A-E Spectra Medium Diamond Needle Files

Diamond needle files with 3mm round handles. Measure 5½" (14cm) long. Plated ends measure 2¾" long. Medium grit (D126, or U.S. standard 120/140).

	Style	Shape	Item#	EACH Prices 1-4	5-9	10+
A.	Equalling		241-0010	$30.25	$28.74	$27.23
B.	Flat-Pointed		241-0020	30.25	28.74	27.23
C.	Half-Round		241-0030	30.25	28.74	27.23
D.	Round		241-0040	30.25	28.74	27.23
E.	Knife		241-0050	30.25	28.74	27.23
	Set of all five		241-0250	141.00	-	-

F-J Spectra Fine Diamond Needle Files

Diamond needle files with 3mm round handles. Measure 5½" (14cm) long. Plated ends measure 2¾" long. Fine grit (D91, or U.S. standard 170/200).

	Style	Shape	Item#	EACH Prices 1-4	5-9	10+
F.	Equalling		241-0012	$30.25	$28.74	$27.23
G.	Flat-Pointed		241-0022	30.25	28.74	27.23
H.	Half-Round		241-0032	30.25	28.74	27.23
I.	Round		241-0042	30.25	28.74	27.23
J.	Knife		241-0052	30.25	28.74	27.23
	Set of all five		241-0245	141.00	-	-

K. Spectra Very Fine Diamond Escapement File

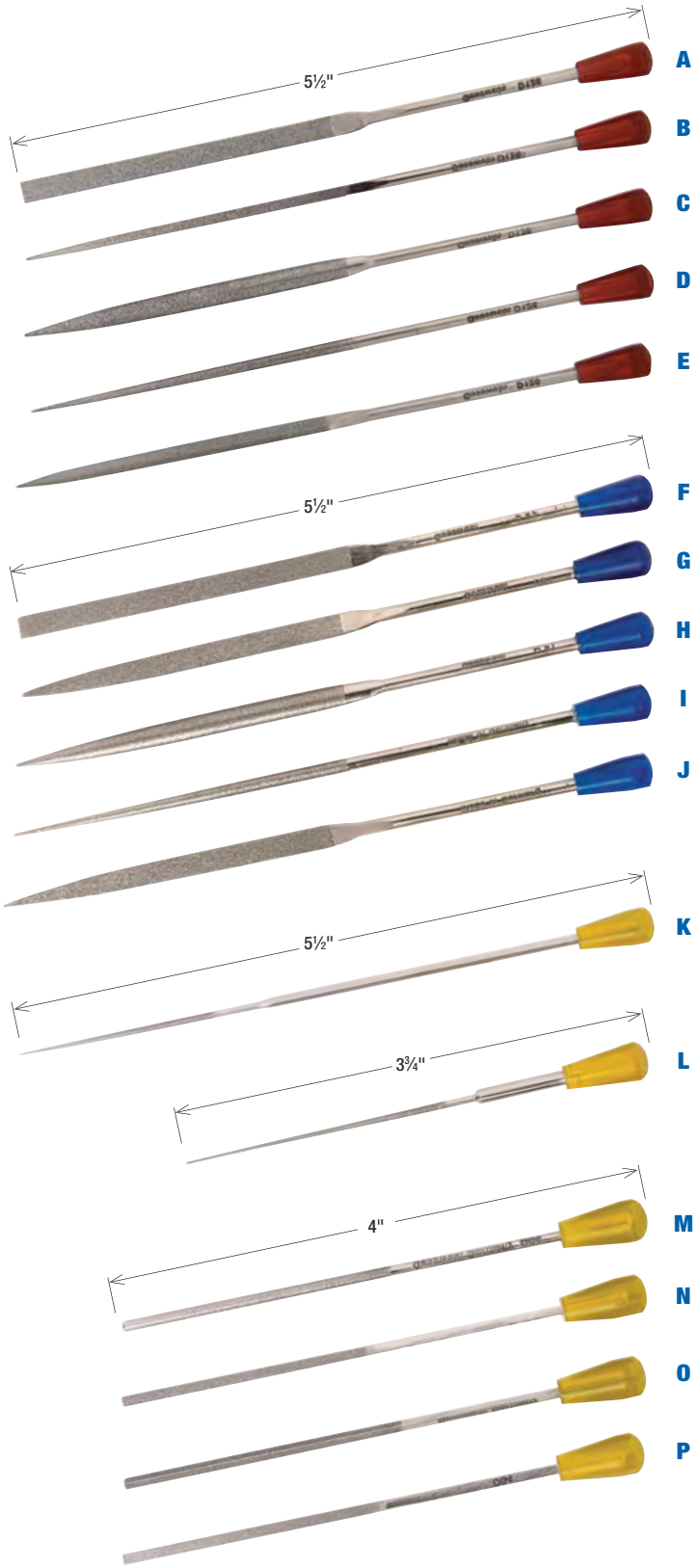
Diamond escapement file with 3/32" square handle. Measures 5½" (14cm) long. Plated end measures 1¾" long with 1/16"–1/32" taper. Very fine grit (D64, or U.S. standard 230/270).

Style	Shape	Item#	EACH Prices 1-4	5-9	10+
Round (tapered)		241-0150	$33.00	$31.35	$29.70

L-P Spectra Very Fine Diamond Micro Files

Mini diamond files with 3/32" wide handles. Measure approx. 4" long except round, which measures approx. 3¾" long. Plated ends measure approx. 2" long with 1/16"–1/32" taper for round only. Very fine grit (D64, or U.S. standard 230/270).

	Style	Shape	Item#	EACH Prices 1-4	5-9	10+
L.	Round (tapered)		241-0500	$26.00	$24.70	$23.40
M.	Half-Round		241-0505	26.00	24.70	23.40
N.	Square		241-0510	26.00	24.70	23.40
O.	Three-Square		241-0515	26.00	24.70	23.40
P.	Flat Hand		241-0520	26.00	24.70	23.40
	Set of all five		241-0525	123.00	-	-



See all our other DIAMOND FILES on pages 109-113.

They include 3M Diamond Hand files, Gesswein Diamond Poli files, Rifflers and Needle files, as well as Diamond Lappers and Hand Sharpeners.

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Made in the USA

A

A. Dead-Blow Mallets – With detachable faces

Feature cast-iron heads filled with iron shot. As each mallet is struck, shot moves forward behind the blow to dampen rebound and ensure efficient transmission of force. Includes two replaceable nonmarring polyurethane faces: medium (green) and hard (black). Impervious to oils and most solvents. Grooved hickory handles. Made in USA.

Head Dia. x L	Head Wt.	Length	Item#	Each
1" x 4¼"	¾ lbs.	11"	**821-9070**	**$38.70**
1½" x 5¼"	2 lbs.	13⅛"	**821-9080**	**49.50**
2" x 6¼"	3½ lbs.	14½"	**821-9090**	**66.70**
Replacement Face	**Color**	**Hardness**	**Item#**	**Each**
1" dia.	Green	Med.	821-9100	$7.80
	Black	Hard	821-9110	10.50
1½" dia.	Green	Med.	821-9120	10.60
	Black	Hard	821-9130	13.90
2" dia.	Green	Med.	821-9140	15.25
	Black	Hard	821-9150	20.40

B

B. Weighted Rawhide Mallets

Feature heads made of lead strips surrounded by multiple layers of tough water buffalo hide with screw fastening for great longevity. Deliver extra-strong blows without scratching fine work surfaces. Hickory handles. Made in USA.

Head Dia. x L	Head Wt.	Length	Item#	EACH Prices 1-2	3+
1¼" x 2½"	8 oz.	9¼"	**821-8000**	**$32.00**	**$30.40**
1½" x 3"	12 oz.	10"	**821-8001**	**36.00**	**34.20**
1¾" x 3⅜"	16 oz.	11½"	**821-8002**	**40.00**	**38.00**
2" x 3½"	20 oz.	12"	**821-8003**	**52.00**	**49.40**

C

C. Rawhide Mallets

Compressed rawhide mallets for use when extra care must be taken not to mar the work surface. Hickory handles. Most popular size for general purpose work is 1½" x 3". Made in USA.

Head Dia. x L	Head Wt.	Length	Item#	EACH Prices 1-2	3+
1" x 2"	2½ oz.	8"	**821-8800**	**$16.00**	**$14.40**
1¼" x 2½"	4½ oz.	9"	**821-8850**	**18.00**	**16.20**
1½" x 3"	6 oz.	10"	**821-8900**	**21.00**	**18.90**
1¾" x 3½"	9½ oz.	11"	**821-8950**	**27.00**	**24.30**
2" x 3½"	12 oz.	11¾"	**821-9000**	**31.00**	**27.90**
2¾" x 4¼"	1½ lbs.	13½"	**821-9050**	**55.00**	**49.50**

D

D. Polyurethane Dead-Blow Mallets

One-piece mallets with no exposed metal. Will not mushroom, split or pick up debris. Outlast rawhide, rubber, brass, lead, nylon and plastic mallets 10–20 times over. Made in USA.

Head Dia. x L	Head Wt.	Length	Item#	Each
⅞" x 2⅞"	8 oz.	9⅜"	**821-7060**	**$24.95**
1¼" x 4³⁄₁₆"	18 oz.	10⅝"	**821-7061**	**29.95**

E

E. Polyethylene Mallet

Made of dense, nonporous polyethylene, which is nonmarring and easy to clean. Hickory handle. Made in USA.

Head Dia. x L	Head Wt.	Length	Item#	Each
1¾" x 3⅞"	8 oz.	11¼"	**821-8790**	**$16.00**

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A. K&D® Mallets

Feature replaceable brass and nylon faces. Hardwood handles. Made in USA.

Head Dia. x L	Head Wt.	Length	Item#	Each
9/16" x 2 3/4"	3 1/2 oz.	9"	**822-0010**	**$15.75**
5/8" x 2 3/4"	6 oz.	9"	**822-0015**	**22.40**

Replacement Face	Type	Item#	(3pc) Each
9/16" dia.	Brass	822-0020	$1.35
	Nylon	822-0025	1.35
5/8" dia.	Brass	822-0030	1.35
	Nylon	822-0035	1.35

(3pc) *Three-piece minimum; please order in multiples of three.*

B. Brass Mallet with Wooden Handle

Features small brass head. Will not mar steel. Hickory handle. USA.

Head Dia. x L	Head Wt.	Length	Item#	Each
11/16" x 2"	4 oz.	8 1/4"	**822-0040**	**$9.95**

C. Mini Brass Mallet

Features a high-quality solid brass head with flat and ball-peen end threaded onto an anodized aluminum handle. Hexagonal handle prevents slipping. Made in USA.

Head Dia. x L	Head Wt.	Length	Item#	Each
1/2" x 1 3/4"	2 oz.	8"	**821-8170**	**$14.95**

D. Economy Ball-Peen Hammers

Steel hammers with flat and ball-peen faces. Wooden handles. Imported.

Head Dia. x L	Head Wt.	Length	Item#	Each
1/2" x 2"	2 oz.	10 1/2"	**821-8050**	**$4.05**
3/4" x 2 3/4"	4 oz.	10 1/2"	**821-8100**	**4.55**
7/8" x 3"	8 oz.	10 1/2"	**821-8150**	**6.95**

E. Plastic Mallet

Features nonmarring plastic head with flat faces. Hardwood handle. Made in Germany.

Head Dia. x L	Head Wt.	Length	Item#	Each
3/4" x 2 3/4"	5 1/2 oz.	10 1/2"	**821-8795**	**$12.50**

F. Nylon Mallet with Wooden Handle

Shock-cushioned mallet with replaceable nonmarring nylon faces. Hickory handle. Made in UK.

Head Dia. x L	Head Wt.	Length	Item#	Each
1" x 3 7/8"	10 oz.	10"	**821-7080**	**$33.60**

Replacement Faces	Item#	Pair
1" dia.	821-7008	$10.00

G. Nylon Mallets with Plastic Handles

Shock-cushioned mallets with replaceable nonmarring nylon faces. Plastic handles with rubber nonslip grips impervious to moisture and oil. Made in UK.

Head Dia. x L	Head Wt.	Length	Item#	Each
1 1/4" x 3 7/8"	1 lb.	11 1/2"	**821-7100**	**$40.50**
1 1/2" x 4 3/4"	1 1/2 lbs.	12"	**821-7120**	**46.20**

Replacement Faces	Item#	Pair
1 1/4" dia.	821-7010	$12.00
1 1/2" dia.	821-7012	15.60

H. Brass Mallets

Feature solid brass heads that deliver a hard blow. Ideal for work that requires a solid hit, including stamping, dapping and punching. Metal handles with nonslip grips. Made in USA.

Head Dia. x L	Head Wt.	Length	Item#	Each
1" x 2 5/8"	1 lb.	9 3/4"	**821-7050**	**$31.25**
1 1/4" x 2 5/8"	2 lbs.	9 3/4"	**821-7051**	**39.95**

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Peddinghaus Hammers

German made Peddinghaus hammers are crafted using the time-tested process of forging. These high-quality hammers are not cast. Finely balanced with curved ash handles, they are the choice of metal smiths for riveting, forming, embossing, grooving and raising. These hammers are manufactured in accordance with strict ISO and DIN standards. Made in Germany.

A. Peddinghaus Planishing Hammer

Fine steel hammer with highly polished flat (24mm dia.) and bowed (24mm dia.) faces. Solid ash handle. Meets strict ISO and DIN standards. Made in Germany.

Head Length	Head Wt.	Length	Item#	Each
80mm	6 oz.	10¼"	**821-7024**	**$40.95**

B. Peddinghaus Polishing Hammer

Fine steel hammer with highly polished lightly bowed (24mm dia.) and heavily bowed (24mm dia.) faces. Solid ash handle. Meets strict ISO and DIN standards. Made in Germany.

Head Length	Head Wt.	Length	Item#	Each
104mm	8¾ oz.	11¾"	**821-7026**	**$40.95**

C. Peddinghaus Chasing Hammer

Fine steel hammer with two satin-polished differently bowed (15 and 20mm thick) faces. Solid ash handle. Meets strict ISO and DIN standards. Made in Germany.

Head Length	Head Wt.	Length	Item#	Each
117mm	14 oz.	12¼"	**821-7025**	**$40.95**

D. Peddinghaus Goldsmith's Hammer

Fine chrome-plated steel hammer with highly polished flat and chisel faces. Solid ash handle. Meets strict ISO and DIN standards. Made in Germany.

Head Dia. x L	Head Wt.	Length	Item#	Each
16 x 90mm	2¾ oz.	11½"	**821-7020**	**$45.95**

E, F Peddinghaus Embossing Hammers

Fine steel HB hammer with two highly polished heavily bowed (18 and 21mm dia.) faces. Fine steel DB hammer with two highly polished differently bowed (11 and 14mm dia.) faces. Solid ash handle. Meets strict ISO and DIN standards. Made in Germany.

	Head Length	Head Wt.	Length	Item#	Each
E.	135mm	7 oz.	11"	**821-7021**	**$40.95**
F.	105mm	3½ oz.	10¼"	**821-7023**	**40.95**

G. Peddinghaus Bordering Hammer

Fine steel hammer with two satin-polished straight pattern faces. Solid ash handle. Meets strict ISO and DIN standards. Made in Germany.

Head H x L	Head Wt.	Length	Item#	Each
72 x 140mm	10½ oz.	11¾"	**821-7022**	**$40.95**

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A. Goldsmith's Hammer

Well-balanced, polished steel hammer with flat and chisel faces for riveting, shaping and forming. Wooden handle. Made in Germany.

Head Dia. x L	Head Wt.	Length	Item#	Each
5/8" x 3 1/2"	5 oz.	12"	**821-8235**	**$29.95**

B. Swiss-Style Riveting Hammer

Polished steel hammer with flat and chisel faces. Wooden handle. Imported.

Head Dia. x L	Head Wt.	Length	Item#	Each
7/16" x 3"	2 oz.	9 1/2"	**821-8775**	**$7.15**

C. Premium Chasing Hammers

Feature hardened flat face for striking chisels and chasing tools and ball-peen face for forming rivet heads and more. Well-balanced hardwood handles with oval grip and narrow shaft provide spring when striking, reducing vibration in your hand. Made in Germany.

Head Dia.	Head Wt.	Length	Item#	Each
3/4"	3 1/2 oz.	10"	**821-8243**	**$49.00**
1"	4 oz.	10"	**821-8245**	**49.00**
1 1/8"	5 oz.	10"	**821-8250**	**52.00**
1 1/4"	6 oz.	10"	**821-8255**	**54.00**

D. Economy Chasing Hammer

Has flat face for striking chasing tools and polished ball-peen face for hammering directly on metal. Wooden handle. Imported.

Head Dia.	Head Wt.	Length	Item#	Each
1 1/8"	4 oz.	10 1/2"	**821-8253**	**$12.75**

E. Riveting Hammers

Polished steel hammers with flat and chisel faces. Wooden handles. Made in USA.

Head Dia. x L	Head Wt.	Length	Item#	Each
3/8" x 2 3/4"	2 1/2 oz.	10"	**821-8600**	**$28.78**
1/2" x 3 1/2"	4 oz.	10"	**821-8650**	**29.35**
9/16" x 4"	5 oz.	10"	**821-8700**	**28.78**
5/8" x 4 1/4"	7 oz.	10"	**821-8750**	**34.62**

F. Riveting Hammer

Made of hardened steel for solid striking force. One end flat, other chisel-shaped. Wooden handle. Head length: 80mm long. Face dimensions: 15mm square. Made in Germany.

Head Dia. x L	Head Wt.	Length	Item#	Each
1/2" x 3 5/32"	3.5 oz.	10 1/8"	**821-8625**	**$10.25**

G. Planishing Hammer – Domed

Precision-ground and hardened steel hammer with polished face. Domed style has flat and slightly domed round faces. Solid ash handle. Made in Germany.

Head Dia. x L	Head Wt.	Length	Item#	Each
7/8" x 3 3/4"	12 oz.	11 1/2"	**821-8242**	**$44.95**

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Fretz Hammers and Miniature Stakes

Fretz Hammers feature beautiful and strong Padauk wood handles, oil finished and tapering to a slender neck for flexibility. Head is cast from 420-grade stainless steel and hardened to 50HRC for maximum durability. Faces are polished to a mirror shine.

The size of the hammer will be dictated by the size of the workpiece. Small, light projects will require small hammers (HMR-1 or 5), and big, heavy projects will require large hammers (HMR-101). Made in Vietnam.

A. Planishing Hammers

For smoothing metal: round head smooths previous raising marks, and flat head smooths marks from round head to a nearly even finish. Can also be used for sizing rings, shaping bezels and forming metal against mandrels and stakes. Made in Vietnam.

Description	Faces	Length	Item#	Each
HMR-1	3/4"	9"	**821-7030**	**$52.00**
HMR-101	7/8"	9 7/8"	**821-7035**	**74.50**

B. Chasing Hammer

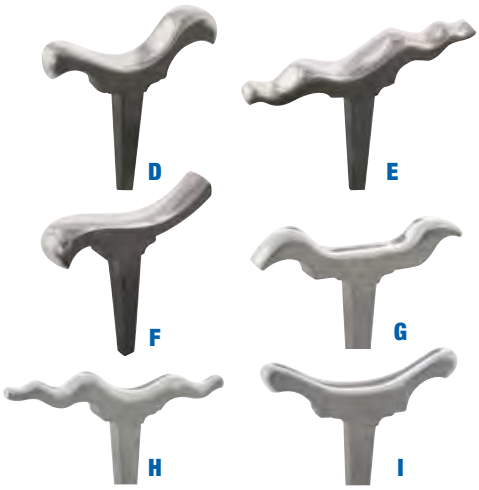
A modern design chasing hammer of medium weight. The balance of this hammer makes each hammer blow effortless. Features 1 1/32" (29mm) flat face for striking chasing tools and 1/2" (12mm) polished ball-peen face for hammering directly on metal. Made in Vietnam.

Description	Faces	Length	Item#	Each
HMR-17	1 1/8" & 1/2"	9"	**821-8265**	**$56.00**

C. Small Embossing Hammer

For forming small raised areas by hammering from the inside in preparation for chasing or shaping. Imparts a very fine dimpled texture that can be varied by blow strength. Made in Vietnam.

Description	Faces	Length	Item#	Each
HMR-5	3/8" & 1/4"	9"	**821-7034**	**$52.00**



D-I Fretz F-Series Mini Silversmithing Stakes

Give yourself more creative forming options!

F-series stakes to create complex shapes. Stakes are hardened to 38 HRC for easy reshaping. Holders are softer to ensure stakes fit securely. Purchase extra holders to progress from one task to the next without constantly changing stakes. Use with H-1 holder (sold separately, below). All measure approximately 3 3/4"W x 3"H. Made in Vietnam.

	Description	Item#	Each
D.	F-2 Double Convex, large end forms convex bracelets, smaller end forms domed rings. If you anneal in between hammering, F-2 can make some fairly dramatic curves.	**814-1089**	**$54.00**
E.	F-6 An anticlastic shell stake scaled for bracelet-size shell-form, concave or convex shapes.	**814-1091**	**54.00**
F.	F-9 Has one convex side to make shallow dome. Other side is for making concave bracelets.	**814-1090**	**54.00**
G.	F-1 Beak stake for making bracelets with rolled edges and transitioning flat surfaces to curved.	**814-1092**	**54.00**
H.	F-7 Thin shell stake for making spiral shapes and curves.	**814-1093**	**54.00**
I.	F-8 Horn stake for making beads from tubes and cones and for extreme curves in hollow rings.	**814-1094**	**54.00**

J, K Fretz Stake H-1 Holder and VB-1 Vise Block

Use the H-1 holder with the VB-1 cherry vise block for securing all F-series stakes. Vise block measures 3"L x 2"W x 1 1/2"H. Purchase extras to improve workflow. Made in Vietnam.

	Description	Item#	Each
J.	H-1 Holder	**814-1060**	**$52.75**
K.	VB-1 Cherry Vise Block	**814-1081**	**19.95**

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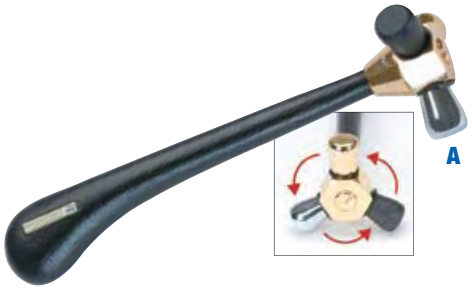
A. Three-Face Triad Hammer

This clever hammer features rotating head with three different faces: brass, nylon and steel. To change faces, just pull on head and turn. Has ergonomic vibration-dampening handle for comfortable grip. Helps save drawer space.

Description	Head Dia. x H	Head Wt.	Length	Item#	Each
Triad Hammer	5/8" x 3/4"	8.5 oz.	9"	**822-0046**	**$35.50**



B. UFO Hammer with Three Faces

One hammer that does work of three! This unique hammer features an egg-shaped head with three different removable faces: brass, nylon and steel. Has ergonomic vibration-dampening handle for comfortable grip.

Description	Head Dia. x H	Head Wt.	Length	Item#	Each
B. UFO Hammer	7/8" x 3/8"	4.5 oz.	8 3/4"	**822-0050**	**$26.50**
Replacement Brass Face				822-0051	6.95
Replacement Nylon Face				822-0052	4.95
Replacement Steel Face				822-0053	4.95

C. Letter Stamp Set

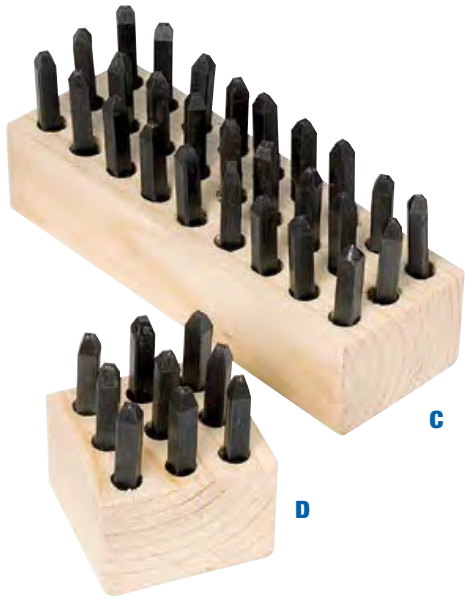
Includes 27 steel stamps: one for each letter of the alphabet and one period. Makes 1/16" impressions. Packaged in hardwood storage case with cover.

Description	Item#	Each
Letter Stamp Set	**190-0010**	**$59.00**

D. Number Stamp Set

Includes nine steel stamps: numbers 0–9 (use 9 upside-down to make 6). Makes 1/16" impressions. Packaged in hardwood storage case with cover.

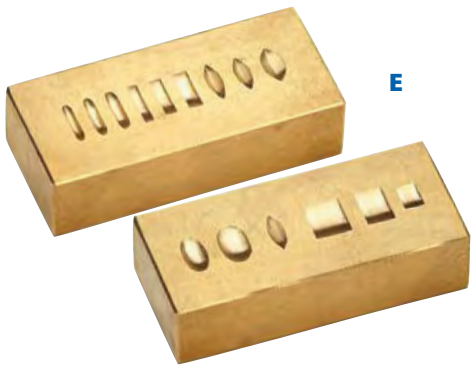
Description	Item#	Each
Number Stamp Set	**190-0030**	**$20.50**



E. Double-Sided Ring Marking Anvil

This brass anvil has a wide variety of shank-shaped depressions in graduated sizes so you can karat-stamp both ladies' and men's rings without marring the shank or creating a flat spot. Measures 3"L x 1 1/4"W x 3/4"H.

Description	Item#	Each
Double-Sided Ring Marking Anvil	**190-1007**	**$29.00**



F. Horn Anvil on Base

Made of hardened and tempered steel. Has round and flat horns for flattening and shaping. Measures 4 3/4"W x 3 1/4"H. Made in Italy.

Description	Item#	Each
Horn Anvil on Base	**814-1025**	**$56.00**

G. Machined Horn Anvil

Machined from a block of tool steel. Case-hardened and polished to perfection. Has round and flat horns and hole in top for riveting. Measures 4 1/2"W x 1 5/8"H. Imported.

Description	Item#	Each
Machined Horn Anvil	**814-1021**	**$25.75**

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A

A. Hexagon Anvil

Ideal for drilling, riveting and staking small parts. Case-hardened and ground flat and smooth. Has 16 holes ranging from 5/64" to 1/4" and five milled slots. Measures 1 5/8"W x 3/4"H.

Description	Item#	Each
Hexagon Anvil	**814-1050**	**$20.50**

B

B. Machined Bending Block

Used for forming and shaping metal into ring shanks, bezels and much more. Has eleven semicircular grooves and one 45° groove. Measures 4"L x 2"W x 1"H. Made in Europe.

Description	Item#	Each
Machined Bending Block	**810-2050**	**$80.70**

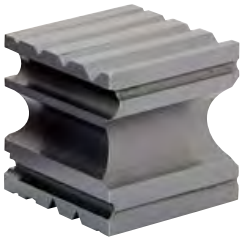
C

C. Large Bending Block

Used for forming and bending metal. Made of high-quality tool steel hardened to 45–50 HRC and polished. Has five semicircular grooves: three half-rounds and two third-rounds, perfect for ID nameplates and other designs that require a gentler curve. Measures 6 3/8"L x 2 3/8"W x 2"H. Made in Europe.

Description	Item#	Each
Large Bending Block	**810-2055**	**$76.20**

D

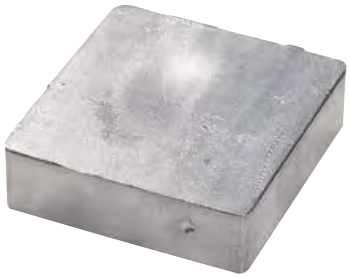


D. Forming Block

Used for forming small lengths of rod, wire and sheet. Made of high-grade tool steel hardened to 50 HRC. The 2" block has seven half-round grooves, seven V-shaped grooves, four rectangular grooves and several flat surfaces. Made in Europe.

Description	Item#	Each
2" Forming Block	**810-2005**	**$82.10**

E

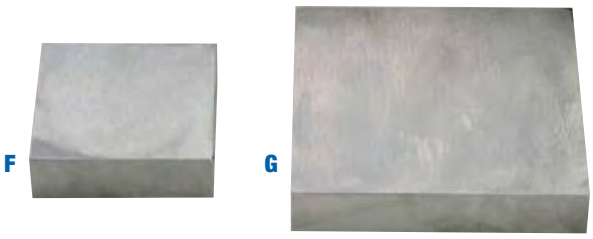


E. Lead Bench Block

Used as a stable base for cutting, stamping, forming and chasing. Measures 3 3/8"L x 3 3/8"W x 1"H.

Description	Item#	Each
Lead Bench Block	**812-1640**	**$16.90**

F, G



F, G Steel Bench Blocks

Each provides a solid, stable base for workpiece when flattening or laying out designs. Made of high-quality tool steel hardened to 46–50 HRC and ground to a smooth, flat surface. Small block measures 2 1/2"L x 2 1/2"W x 3/4"H. Large block measures 4"L x 4"W x 3/4"H. Made in Europe.

Description	Item#	Each
F. Small Steel Bench Block	**812-1650**	**$12.95**
G. Large Steel Bench Block	**812-1655**	**21.95**

H

H. Bench Block Helper w/Steel & Nylon Blocks

This three piece set includes a thick vulcanized firm rubber base which absorbs shock plus a solid steel block which is 15/16" (24mm) thick and 3" (75mm) in diameter. The third piece is a sturdy nylon block the same size that fits into the rubber base for lighter more delicate work. This is a well made set and allows one to hammer without creating excess noise and vibration at the bench. Wt. 2.5 lbs.

Description	Item#	Each
Bench Block Helper Set	**812-1645**	**$28.95**

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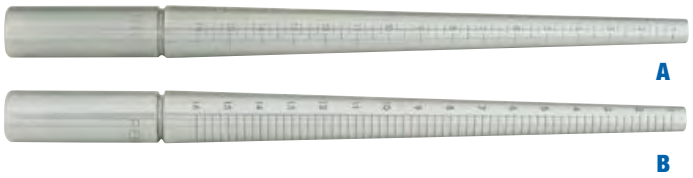
A-C PEPETOOLS Steel Ring Mandrels

Round steel ring mandrels with laser-engraved sizes. EURO style is graduated in EURO sizes 41–76 and 13–24.5mm and also marked in USA sizes 1–16 by ¼-size increments. USA style is graduated in sizes 1–16 by ¼-size increments. USA Standard Sizing Set includes the Aluminum Ring Stick #841-1100 (p. 354), Steel Ring Mandrel #841-1105 and Precision Ring Sizes #820-8055 (p. 357). All are perfectly matched interchangeable components.

	Description	Item#	Each
A.	EURO Style	841-1106	$31.75
B.	USA Style	841-1105	27.95
C.	USA Standard Sizing Set	841-1110	62.95


A

B

C

D-F PEPETOOLS Steel Grooved Ring Mandrels

Round steel ring mandrels with laser-engraved sizes, grooved for accepting stone-set rings. EURO style is graduated in sizes 41–76mm and 13–24.5mm and also marked in USA sizes 1–15 by ¼-size increments. USA style is graduated in sizes 1–16 by ¼-size increments. USA Grooved Sizing Set includes the Aluminum Ring Stick #841-1103 (p. 354), Steel Ring Mandrel #841-1107 and Precision Ring Sizes #820-8055 (p. 357). All are perfectly matched interchangeable components.

	Description	Item#	Each
D.	EURO Style - mm + 1-15	841-1108	$29.10
E.	USA Style - 1-16	841-1107	22.40
F.	USA Grooved Sizing Set	841-1111	62.00

D

E

F

G. PEPETOOLS Square Steel Ring Mandrel

Square steel ring mandrel with rounded corners for holding, shaping and straightening rings. Tapers from 24mm to 12mm square.

Description	Item#	Each
Square Steel Ring Mandrel	841-1109	$33.35

G

H, I Steel Ring Mandrels

Round steel ring mandrels. Available in plain style or grooved style for stone-set rings. Graduated in sizes 1–16 by ¼-size increments.

	Description	Item#	Each
H.	Plain Style	841-1165	$32.00
I.	Grooved Style	841-1170	32.50

H

I

J. Steel Mandrel for Large Rings

Round steel mandrel for holding large rings, bezels, hoop earrings and other items. Graduated in sizes 16–24 by ¼-size increments. Features knurled handle for solid grip. Measures 8¼" long.

Description	Item#	Each
Steel Mandrel for Large Rings	841-1171	$32.65

J

K-M Bezel Mandrels

Although primarily used to form bezels, these mandrels are also used to shape decorative ornaments and to make chain links. Made of hardened and polished steel. Measure 11" overall length. Mandrel portions measure approximately 8" long with ½"-⅛" taper.

	Description	Item#	EACH Prices 1-2	3+
K.	Round Mandrel	841-1310	$25.60	$23.04
L.	Oval Mandrel	841-1305	25.60	23.04
M.	Square Mandrel	841-1300	27.60	24.84

K

L

M

For Measuring Mandrels and Ring Sizes See Pages 354-357.

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A

B

C

A, B Bracelet Mandrels

Ideal for shaping, stretching and forming bracelets and other items. Made of hardened and polished cast iron. Round mandrel measures 14⅜"L and tapers from 3½" to 2". Oval mandrel measures 11¾"L and tapers from 3" x 2½" to 2⅛" x 1¾". Made in Italy.

	Description	Item#	Each
A.	Round Bracelet Mandrel	**841-2050**	**$135.00**
B.	Oval Bracelet Mandrel	**841-2060**	**199.00**

C. Bracelet Mandrel with Tang

Ideal for shaping, stretching and forming bracelets and other items. Fits easily in Bench Pin and Anvil #814-1010 (see p. 567) or a vise. Made of cast steel polished to a smooth finish. Measures 5¾"L with 3" tang and tapers from 2½" x 2⅜" to 1¾" x 1½".

Description	Item#	Each
Oval Bracelet Mandrel with Tang	**841-2070**	**$68.35**

D

D. Round Wooden Bracelet Mandrels

Round tapered hardwood mandrels for shaping and removing dents and kinks from bracelets and bangles made of soft, nonferrous metals. Will not mar jewelry.

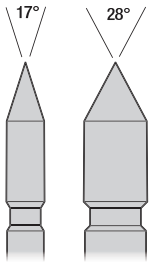
		EACH Prices	
Size	Item#	1-2	3+
15"L x 2½"-1½"dia.	**841-3032**	**$16.45**	**$13.98**
14"L x 3½"-2"dia.	**841-3031**	**22.50**	**19.13**

E

E. Oval Dapping Die and Punch Set

Includes heavyweight steel die with 16 oval depressions ranging from 7/16" x 5/16" up to 1⅛" x 13/16" and four precisely matched, high-grade hardened steel oval punches. Comes complete with sturdy 7⅝"L x 5½"W wood stand. Made in Italy.

Description	Item#	Each
Oval Dapping Die and Punch Set	**815-0550**	**$499.00**



F

F. Bezel Block and Punch Sets

Each includes precision-machined block and punch. Used to punch and form bezels from flat stock. Made of hardened, tempered, polished steel. Made in Italy.

	Description	Holes	Punch Angle	Item#	Each
F.	Round Set	20 (5–20mm)	17°	**815-2050**	**$105.00**
	Round Set	20 (5–20mm)	28°	**815-2055**	**105.00**
	Oval Set	11 (4–14mm)	17°	**815-2060**	**179.00**
	Heart Set	11 (5–15mm)	17°	**815-3000**	**349.00**

G

G. Dent Remover

A 2¼" hardwood block with two wooden punches for shaping and repairing lockets and cases and removing dents. Has six different shallow cups.

		EACH Prices	
Description	Item#	1-9	10+
Dent Remover	**815-1010**	**$7.20**	**$5.76**

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A, B PEPETOOLS Premium Disc Cutters

High-carbon tool steel cutters machined and tempered to perfection for cutting flawless circles from 12-gauge and thinner soft metals. Feature shoulder rings to stop punches from falling through base. Small disc cutter includes seven punches. Large disc cutter includes five punches. Combo disc cutter includes 11 punches. Made in Europe.

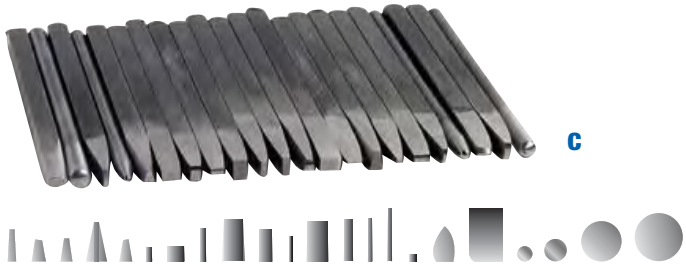
Punch Size	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"
Small Cutter	•	•	•	•	•	•	•				
Large Cutter							•	•	•	•	•
Combo Cutter	•	•	•	•	•	•	•	•	•	•	•

	Description	Item#	Each
A.	Small Cutter, 7 holes, 1/8"-1/2"	812-1300	$126.50
	Large Cutter, 5 holes, 1/2"-1"	812-1310	116.35
B.	Combo Cutter, 11 holes, 1/8"- 1"	812-1325	160.00

C. Chasing Tool Set

Consists of 22 different punches for making decorative designs on sheet metal. The tool ends are struck with a chasing hammer while the work is held in a pitch bowl or on a lead block.

Description	Item#	Each
Chasing Tool Set	815-2000	$140.00



D. High-Speed Steel Chisels

Diesinker style with one-piece construction ground to shape from the finest round high-speed steel stock. Excellent for evenly removing large amounts of material. Will not lose temper when sharpened. Measure 6" long overall. Available individually or in a set of all 12 styles. Shapes: Sizes 1 to 4 are square, 5 to 8 are round, and 9 to 12 are point. Made in USA.

Description	Item#	EACH Prices 1-11	12+
Chisel #1	166-9010	$16.50	$13.75
Chisel #2	166-9020	16.50	13.75
Chisel #3	166-9030	16.50	13.75
Chisel #4	166-9040	16.50	13.75
Chisel #5	166-9050	16.50	13.75
Chisel #6	166-9060	16.50	13.75
Chisel #7	166-9070	16.50	13.75
Chisel #8	166-9080	16.50	13.75
Chisel #9	166-9090	16.50	13.75
Chisel #10	166-9100	16.50	13.75
Chisel #11	166-9110	16.50	13.75
Chisel #12	166-9120	16.50	13.75
12-Piece Set	166-9990	170.00	-

E. Durston Bangle Forming Die Set

This well made product from Durston helps you effortlessly form bangles and cuffs. Fits all standard 4" bench vises (not included see pp. 552, 553) these dies and holder are precision ground, highly polished and hardened to last (with proper use).

Set includes, special convex nylon hammer, die mounting bar and six dies for a total of eight shapes. Made in UK.

Description	Item#	Each
Durston Bangle Forming Die Set	814-1057	$250.00

Vise not included.

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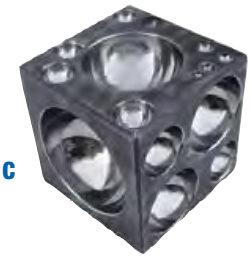
A

B

C



D

E

F

Side 1

Side 2

G

Small

Medium

Large

A, B Durston Dapping Punch Sets

Dapping Sets are the perfect tool for the Professional Jeweler or Designer. The Durston Small and Large Dapping Sets are hardened, ground and polished to the highest quality. Both sets come with the matching Dapping Block. Small sets consists of 21 Punches (3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 21, 23, 25, 28, 32, 36) and a matching 50mm block. The Large Set consists of 24 punches (3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 21, 23, 25, 28, 32, 36, 40, 45, 50) and a matching 70mm block. Both sets come complete in a unique plastic carrying case. Made in UK.

	Description	Net Weight	Item#	Each
A.	Small 21-Piece Set	11 lbs.	**815-1026**	**$265.00**
B.	Large 24-Piece Set	21 lbs.	**815-1027**	**325.00**

C, D Durston Dapping Blocks

High-grade tool steel dapping blocks. The 50mm block has 23 half-spheres: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 23, 25, 27, 30, 34 and 38mm. The 70mm block has 26 half-spheres: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 23, 25, 27, 30, 34, 38, 42, 47, and 52mm. These blocks are included in Dapping Punch Sets (above). Made in UK.

	Description	Net Weight	Item#	Each
C.	50mm Dapping Block	1.1 lbs.	**815-1028**	**$125.00**
D.	70mm Dapping Block	3.3 lbs.	**815-1029**	**159.00**

E. Durston Flat Dapping Block

Made of high-quality tool steel. 23 depressions. Beautifully machined, hardened and high polished. 23 depressions in sizes: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 23, 25, 27, 30, 34 and 38mm. Made in UK.

Description	Net Weight	Item#	Each
Flat Block	5.06 lbs.	**815-1033**	**$99.95**

F. Durston Designers Forming Block

Machined from high quality tool steel. Hardened and highly polished with 14 half spheres in sizes 5, 6, 7, 8, 9, 10, 11, 13, 15, 16, 17, 22, 23 and 24mm and 8 half cut-outs in sizes 6, 8, 9, 15, 16, 17.5, 22 and 26mm. Made in UK.

Description	Net Weight	Item#	Each
Forming Block	1.76 lbs.	**815-1032**	**$116.00**

G. Durston Cupola Sets

Used for forming large spherical shapes. Durston Cupola Sets are made for the professional jeweler who demands the best! All pieces are hardened, ground and highly polished for perfect results. Choose between the four sets: Small (50mm & 57mm), Medium (64mm & 71mm), Large (78mm & 85mm) and the Complete Set, which incorporates all size punches. Each set comes complete with the dapping punch and the matching double-sided die and presented in an unique plastic carrying case. Made in UK.

	Description	Components	Item#	Each
	Small Set	50mm & 57mm	**815-1081**	**$130.00**
	Medium Set	64mm & 71mm	**815-1082**	**145.00**
	Large Set	78mm & 85mm	**815-1083**	**155.00**
G.	Deluxe Set	All six punches and three dies	**815-1084**	**315.00**

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A. Roller Marking Machine

Makes precise, uniform impressions quickly and effortlessly.

This machine uses simple roller action to mark up to 46 evenly spaced characters in one impression from engraved steel rollers. Maintains consistent depth even on very thin pieces since variable pressure can only be adjusted mechanically, not by hand. Ideal for marking trademark and karat on rings, pendants, charms and stone-set rings. Accommodates ring sizes 4 and larger. Uses nylon ring supports to prevent marring and distortion of work. Includes two blank unhardened roller dies, set of eight curved shank supports and one flat bar support.

	Description	Item#	Each
A.	Roller Marking Machine	**856-0420**	**$765.00**
	Optional 14K Roller Die	**856-0430**	**130.00**
	Optional 18K Roller Die	**856-0435**	**130.00**
	Replacement Curved Shank Support Set	856-0421	125.00
	Replacement Blank Unhardened Roller Die	856-0425	39.00

B. Ring and Earpost Marking System

The easiest system for karat-marking rings and earposts. To stamp a ring, position it over the stamp and squeeze the pliers; anvil with felt pad prevents marring. To stamp an earpost, simply insert the earpost jaw set, position the earpost and squeeze the pliers. Includes nickel-plated marking pliers, both flat and concave metal ring anvils, 14K ring stamp, earpost jaw set with 14K earpost stamp, two felt pads and Allen wrench. Stamps make 0.75mm impressions.

	Description	Item#	Each
B.	Ring and Earpost Marking System	**191-1054**	**$299.00**
	Marking Pliers only*	**191-1000**	**196.00**
	Ring Marking Accessories	**Item#**	**Each**
	Flat Metal Ring Anvil**	**191-1051**	**$6.00**
	Concave Metal Ring Anvil**	**191-1052**	**6.00**
	10K Ring Stamp	**191-1020**	**31.00**
	14K Ring Stamp*	**191-1030**	**30.40**
	18K Ring Stamp	**191-1040**	**29.99**
	SS Ring Stamp	**191-1010**	**32.99**
	Pt Ring Stamp	**191-1044**	**35.60**
	900 Ring Stamp	**191-1041**	**35.60**
	925 Ring Stamp	**191-1042**	**32.95**
	950 Ring Stamp	**191-1043**	**38.65**
	Earpost Marking Accessories	**Item#**	**Each**
	Earpost Jaw Set with 14K Earpost Stamp*	**191-1056**	**$119.00**

**Included with #191-1054* ***Included with #191-1054 and #191-1000*

C. Ring Stamping Device

A timesaving, accurate stamping device. Accommodates standard ring stamps with approx. 5/16" square bodies. Eliminates the need to hold ring and stamp in one hand. Just position ring over the nonmarring nylon anvil to prevent slipping and tap stamp with mallet. Also ideal for flat stamping. Allows you to use your existing stamps (if not exactly 5/16" square, simply reverse sleeve or file stamp body to fit). Also works with Bent Ring Stamps listed below.

	Description	Item#	Each
C.	Ring Stamping Device	**190-1005**	**$35.60**
	Replacement Nylon Anvil (2)	190-1006	3.40

Ring Stamps	#1 (1/24") Item#	#2 (1/32") Item#	#3 (1/45") Item#	EACH Prices 1-2	3+*
10K	**190-5150**	**190-5200**	**190-5250**	**$15.75**	**$14.18**
14K	**190-5400**	**190-5450**	**190-5500**	**15.75**	**14.18**
18K	**190-5650**	**190-5700**	**190-5750**	**15.75**	**14.18**
PLAT	-	**190-5945**	**190-5950**	**26.50**	**23.85**
PT900	-	-	**190-5965**	**25.00**	**22.50**
PT950	-	-	**190-5980**	**25.00**	**22.50**
STER	**190-6100**	**190-6150**	**190-6200**	**26.50**	**23.85**

**Quantity break for one item# only, not assorted.*

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A

A. Sherline Metric Lathe

Lets you create precision wax, plastic and metal models and parts like a true pro. Features high-torque DC motor with variable speed control and automatic converter that adjusts between 110V/220V and 50/60Hz without any loss of torque. Made in USA.

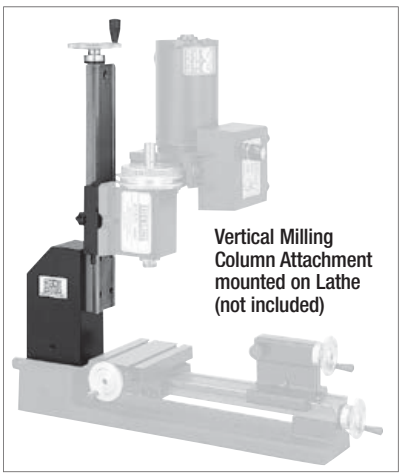
Includes: 70mm x 152mm cross slide, 381mm steel bed to allow 203mm between centers, aluminum handwheels, pulleys, belt, faceplate, lathe dog, two dead centers, two hexagonal keys, tool post, high-speed cutting tool, 8' power cord and instructions. Measures 18"L x 7½"W x 6"H. Operating speed range: 70–2,800rpm.

Specifications:

Swing over Bed	90mm (3½")
Swing over Carriage	45mm (1¾")
Distance Between Centers	200mm (8")
Hole Through Spindle	10mm (.405")
Main Spindle Accuracy	0.0127mm (.0005")
Spindle Nose Thread	¾", 16 TPI
Spindle Nose Taper	#1 Morse
Travel of Cross Slide	110mm (4¼")
Handwheel Graduations	0.01mm (.001")

Description	Item#	Each
Metric Lathe	**856-1100**	**$745.00**

B



B. Sherline Vertical Milling Column Attachment

Turns your Sherline Metric Lathe into a small milling machine for drilling, boring and many other general tasks. Converts lathe to mill in less than one minute. Consists of dovetailed vertical column with aluminum base that fastens to lathe bed in place of headstock; headstock then attaches to dovetailed saddle on vertical column. Turn handwheel to change cutting depth in 0.01mm increments. Mount workpiece on lathe cross slide.

Description	Item#	Each
Vertical Milling Column Attachment	**856-1102**	**$163.00**

C D E

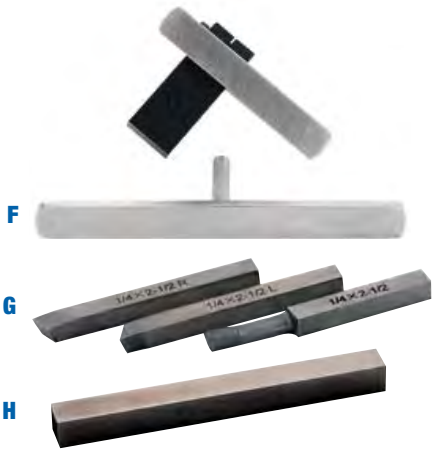
C-E Sherline Chucks

Four-jaw chuck (C) holds irregularly shaped parts on or deliberately off center. Clamps tighter than three-jaw chuck. Grips from 2mm (3/32") to 38mm (1½") diameter stock with jaws in normal position, up to 70mm (2¾") with jaws in reverse position. Measures 17mm (.687") dia. through hole with ¾", 16 thread.

Three-jaw chuck (D) centers parts within a few thousandths of an inch. Grips from 2mm (3/32") to 38mm (1½") diameter stock with jaws in normal position, up to 70mm (2¾") with jaws in reverse position. Measures 17mm (.687") dia. through hole with ¾", 16 thread.

Three-jaw tailstock (E) chuck is used for accurate center-line drilling, reaming or tapping of any part mounted in the lathe. Grips from 0.8mm (1/32") to 9.5mm (3/8") diameter stock. Includes key and two arbors: #0 Morse for tailstock and #1 Morse for headstock.

	Description	Item#	Each
C.	Four-Jaw Chuck	**856-1104**	**$117.95**
D.	Three-Jaw Chuck	**856-1106**	**108.95**
E.	Three-Jaw Tailstock Chuck	**856-1108**	**69.75**



F

G

H

F-H Sherline Accessories

Tool rest mounts on your lathe for steadying chisels and other tools. Tool bit set includes three high-speed steel bits for turning and threading applications: right-hand, left-hand and boring. Tool blank can be easily ground into desired shape for turning and facing applications. Made of high-speed steel. Measures ¼" square.

	Description	Item#	Each
F.	Tool Rest	**856-1114**	**$59.00**
G.	Tool Bit Set of 3, ¼" x ¼" x 2½"	**856-1116**	**26.80**
H.	Tool Blank, ¼" x ¼" x 2½"	**856-1110**	**3.25**

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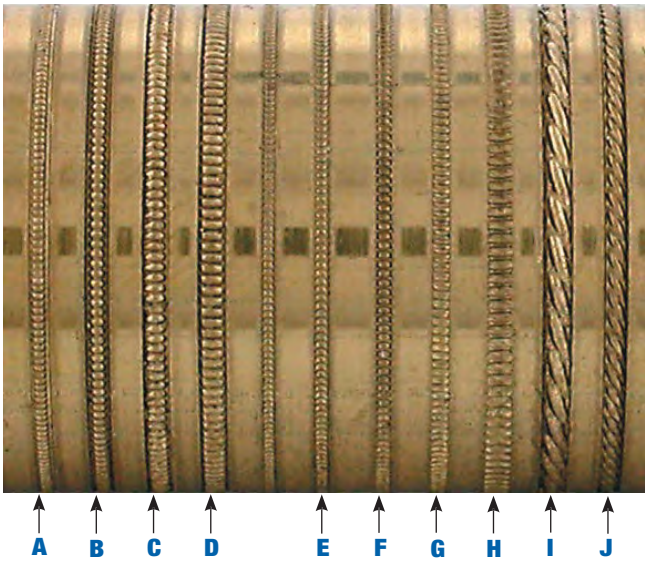
A-J Large Millgrain Wheels

Create decorative borders around edges of rings or bracelets. To use, mount ring on lathe, use turning tool to cut flat shoulder into each ring edge, and bring wheel onto shoulder. Wheels measure 6mm dia. on ⅛" sq. x 2½"L steel shanks. Male wheels have raised beads.

	Description	Approx. Design Width (mm)	Item#	Each
A.	Female 8	0.65	**820-5000**	**$65.00**
B.	Female 10	0.85	**820-5002**	**65.00**
C.	Female 12	1.05	**820-5004**	**65.00**
D.	Female 14	1.20	**820-5006**	**65.00**
E.	Male 8	0.65	**820-5008**	**65.00**
F.	Male 10	0.85	**820-5010**	**65.00**
G.	Male 12	1.05	**820-5012**	**65.00**
H.	Male 14	1.20	**820-5013**	**65.00**
I.	Rope 1 (medium)	1.25	**820-5014**	**65.00**
J.	Rope 2 (small)	0.95	**820-5016**	**65.00**

Samples of patterns



K. Safety Glasses

Comfortable, lightweight safety glasses with high-impact plastic lenses for full eye protection when drilling, polishing and more. One size fits all. Meet ANSI Z87.1 requirements.

Description	Item#	Each
Safety Glasses	**270-0205**	**$4.30**

Large Millgrain Wheel

L. Aspen Safety Glasses

Our Aspen Safety Glasses provide eye protection against most common eye hazards of polishing and benchwork except for severe impacts. Feature polycarbonate lenses, browbar and side shields. Also offer UV protection. Meet ANSI Z87.1 requirements.

Description	Frame	Item#	Each
Aspen Safety Glasses	Clear plastic	**270-0123**	**$9.95**

K

L

M. Panaspec Plus Safety Glasses

Feature impact-resistant clear polycarbonate lenses that provide eye protection against most common eye hazards of benchwork, polishing and more. Side panels and browbar help provide protection from the side and from above the eye. Available in three different polycarbonate frame colors. Meet ANSI Z87.1 requirements.

	Description	Item#	Each
M.	Glasses with Smoke Gray Frame	**270-0100**	**$7.50**
	Glasses with Clear Frame	**270-0101**	**7.50**
	Glasses with Brown Frame	**270-0102**	**7.25**
	Replacement Lens (clear)	270-0112	3.60

M

N. Safety Goggles

A must for polishing, buffing and grinding. Comfortable and lightweight, they easily fit over glasses. Have polycarbonate lens. The sides and top are perforated to reduce fogging. One size fits all. Meet ANSI Z87.1 requirements.

Description	Item#	EACH Prices 1-2	3+
Safety Goggles	**270-0200**	**$9.50**	**$9.03**

N

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Imaging Systems

Ideal for capturing digital images of your jewelry!

Gesswein offers several high-quality imaging systems for capturing digital images of jewelry and other small items. Choose from our top-of-the-line models all the way down to economical ones, and combine with your digital camera. All provide exceptional lighting to ensure images turn out clean and crisp. Use the resulting images for inventory management, repair documentation and much more—you can even include them in printed and electronic marketing materials. Whatever your imaging needs, we have the right system for you!

Model	Multi-Light	Medium	Large	Mini-Studio
Imaging platform size	9" x 12"	9" x 12"	11" x 16"	17" x 23"
Lighting	1 Fluorescent (Soft) 1 Yellow (Hard) 1 LED (Sparkle)	3 Fluorescent	5 Fluorescent	4 Fluorescent
Special Features	Different lighting styles provide good general jewelry lighting including colored stones. LED adds sparkle.	Dimmable lighting to control glare. Suits any type of stone or metal.	Dimmable lighting to control glare. Extra large platform for larger pieces or jewelry sets.	Movable lights & diffuser for the highest level of control over shadows and highlights.
Dimensions	14½"W x 13"D x 12"H	14½"W x 13"D x 12"H	19"W x 15"D x 14"H	30" x 30"
Item #	817-0825	817-0839	817-0842	817-0843
Price	$495.00	$650.00	$895.00	$1,250.00

A

A. MEDALight® Multi-Light Light Box – Best choice for colored gemstones!

This economical light box offers good control and flexibility at a very fair price. Features 9" x 12" imaging platform, three individually controllable lights (5600°K diffused fluorescent soft light, 5600°K 12-LED accent light and 2700°K non-diffused yellow halogen-style fluorescent light) and infinity curve from bottom platform to rear panel for seamless background transition.

Includes removable front door, universal camera bracket, power adapter, six colored background papers and two black side masks. Electrical: 110–220V, 60Hz. Measures 14½"W x 13"D x 12"H. Made in China.

Description	Platform	Item#	Each
Multi-Light Light Box	9" x 12"	817-0825	$495.00

B

B. MEDALight® Medium Light Box

This mid-range light box offers great control and flexibility at a reasonable price. Features 9" x 12" imaging platform; three individually controllable, dimmable 5000°K LED lights in front, rear and bottom; light-reflecting sides; and infinity curve from bottom platform to rear panel for seamless background transition.

Includes removable front door, universal camera bracket, power adapter, six colored background papers and two black side masks. Electrical: 110–220V, 60Hz. Measures 14½"W x 13"D x 12"H. Made in China.

Description	Platform	Item#	Each
Medium Light Box	9" x 12"	817-0878	$650.00

C

C. MEDALight® Large Light Boxes

Full-size light boxes for shooting a wide range of items. Features 11" x 16" imaging platform; five individually controllable, dimmable 5000°K LED lights in front, rear, sides and bottom; and infinity curve from bottom platform to rear panel for seamless background transition.

Both include removable front door, universal camera bracket, power adapter, six colored background papers and two black side masks. Electrical: 110–220V, 60Hz. Measures 19"W x 15"D x 14"H. Made in China.

Description	Platform	Item#	Each
Large Light Box	11" x 16"	817-0879	$895.00

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A, B MEDALight® Mini Studio

This mini studio provides a versatile 5000°K lighting environment for shooting your parts. With its compact size and multiple adjustable light sources, it gives you the flexibility you need to work with a wide range of compositions without using too much space (30" x 30" area required).

Features 17" x 23" imaging platform, durable shooting table frame, translucent diffusion tabletop (attaches securely to frame), innovative 48/32W bottom/back lighting unit, 48W large fluorescent light panel and two 32W small fluorescent light panels with barn-door reflectors. Comes complete with removable diffusion material for hard, soft or mixed lighting, top light stand with boom arm, two swing-arm light mounts and all necessary mounting hardware. Electrical: 120V, 60Hz. Roof diffuser sold separately (see below). Made in China.

Features:

- Provides full control over shadows and highlights in images
- Perfect size for shooting a wide variety of compositions
- Unique 5000°K fluorescent foldaway bottom/back lighting unit
- Fluorescent light panels with barn-door reflectors
- Removable diffusion material for hard, soft or mixed lighting

	Description	Platform	Item#	Each
A.	Mini Studio	17" x 23"	**817-0843**	**$1,250.00**
B.	Roof Diffuser		**817-0876**	**49.95**

C, D MEDALight® Sparkling Lights

These add-on accessories for the MEDALight Mini Studio and the Medium and Large Light Boxes employ multiple high-intensity LEDs (light-emitting diodes) to bring out the brilliance of diamonds, pearls and other precious stones, helping improve jewelry photos and increase sales. Although MEDALight imaging systems have always provided well-balanced diffused lighting for displaying the overall characteristics and details of jewelry, they couldn't really enhance its appearance until now. Sparkling Lights add eye-catching accents that make jewelry more appealing and enticing. MEDALight Mini Studio and Light Boxes with Sparkling Lights are perfect for taking attention-getting photos that can be used in your advertising.

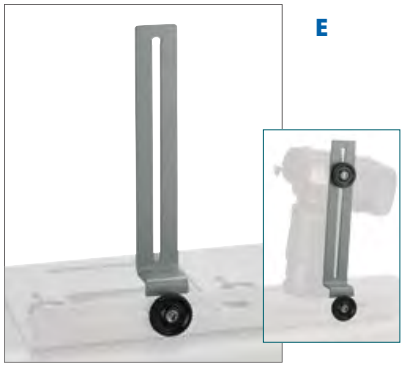
	Description	Item#	Each
C.	Sparkling Light for Mini Studio	**817-0874**	**$145.00**
D.	Sparkling Light for Light Boxes	**817-0872**	**95.00**

For Medium & Large Light Boxes only

E. Extended Bracket/Camera Mount – SLR Cameras

Light boxes come equipped with a 4½" Standard Bracket/Camera Mount. To use today's larger SLR digital cameras with specialty lenses, more space is needed. Replace standard bracket with extended version to raise camera 8½" above camera opening.

Description	Item#	Each
Extension Bracket/Camera Mount	**817-0877**	**$17.95**



F. Dino-Lite Light Box Adapter

Use the Dino-Lite (see p. 347) adaptor to easily mount your Dino-Lite Digital Microscope on any MEDALight box instead of a camera to use measuring software applications.

Description	Item#	Each
Dino-Lite Light Box Adapter	**810-0096**	**$39.00**

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A

Camera not included.

A. Gorillapod SLR-ZOOM Tripod

This handy mini tripod holds your camera in the perfect position for photographing from the front or top of all our digital imaging light boxes: 10" or higher for high-angle shots or as low as 3" for low-angle shots. Features joints that bend and rotate 360° and ring- and foot-grips for flexible, stable positioning on its own or affixed to stationary objects. Includes ¼" universal screw for tripod-mountable cameras and ⅜" adapter screw for professional tripod heads. Supports up to 6.6 lbs. of weight! Measures 9.8" x 2.4" x 2.4" when folded. Weighs just 8.5 oz.

Specifications:

Compatibility:	Tripod-mountable cameras and professional tripod heads
Supports:	6.6 lbs. total camera weight
Dimensions:	9.8" x 2.4" x 2.4"
Net Weight:	8.5 oz.

Description	Item#	Each
Gorillapod SLR-ZOOM Tripod	**817-0495**	**$49.95**

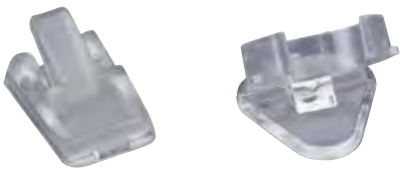
B

B. Imaging Accessory Sets

Large imaging accessory set includes four 9" x 11" composition plates (black, white, neutral gray and royal blue) for use as backgrounds, six pieces of jewelry positioning wax, leatherette ring stand and assortment of ten plastic ring stands. Compatible with MEDALight Mini Studio, Large Light Box and other large systems.

Small imaging accessory set includes four 4" x 6" composition plates (black, white, neutral gray and royal blue) for use as backgrounds, six pieces of jewelry positioning wax, leatherette ring stand and assortment of ten plastic ring stands. Compatible with all Gesswein imaging systems and light boxes.

	Description	Composition Plate	Item#	Each
B.	Large Set	9" x 11"	**817-0865**	**$29.95**
	Small Set	4" x 6"	**817-0864**	**24.95**



C D

C-D Ring Stands

These small ring stands allow you to position your rings at the perfect angles for photographing from above or from the front. Delta is available in clear, black or white. Marquise is available in clear only. Use black on black or dark-colored backgrounds, white on white or light-colored backgrounds.

	Description	Size (W x D)	Color	Item#	Pkg. of 5
C.	Delta	⅝" x ⅞"	Clear	**817-0860**	**$10.99**
			White	**817-0881**	**10.99**
			Black	**817-0883**	**10.99**
D.	Marquise	13/16" x ⅞"	Clear	**817-0861**	**9.25**

E

E. Positioning Wax

Allows items in the light box to be placed upright without any visible holding apparatus. Especially useful for rings. Only a tiny bit of this wax is necessary. Sold in packages of six squares that measure approximately 1"L x 1"W x 1¼" thick.

Description	Item#	Each
Positioning Wax	**817-0758**	**$9.25**

F

F. Leatherette Ring Stand

Provides a subtle, classy texturized background. The pad clip easily and securely fits all types of rings. Measures 2½"W x 2⅞"D x 1"H.

		EACH Prices	
Description	Item#	1-2	3+
Leatherette Ring Stand	**857-1485**	**$3.95**	**$3.95**

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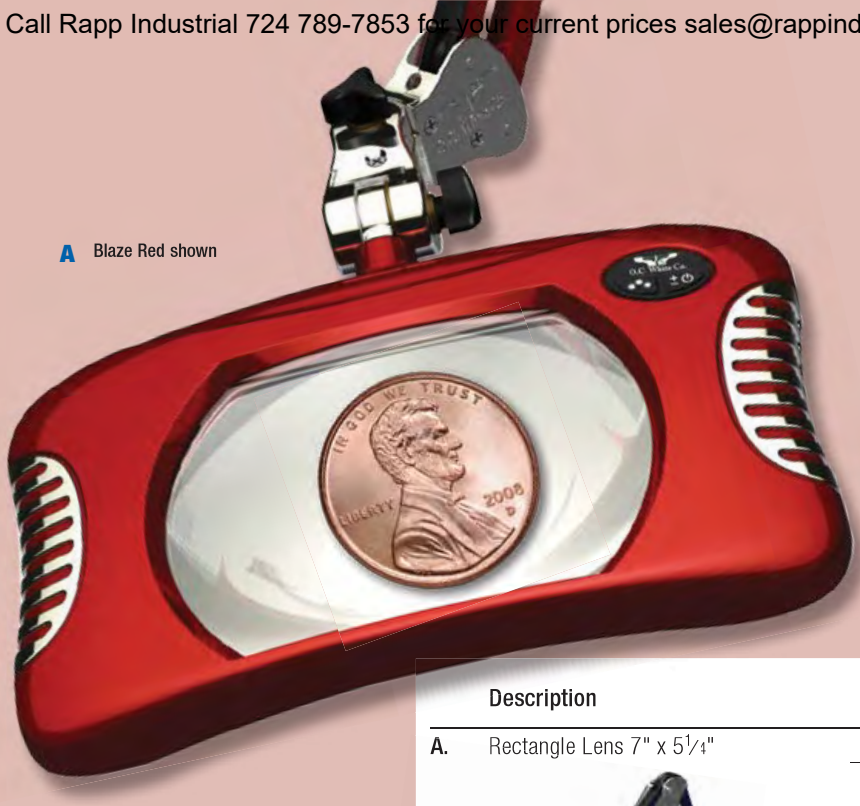
Energy Efficient LED Magnifier Lamps



A Blaze Red shown

Green-Lite™ is the most energy efficient, highest output and longest lasting inspection lighting system in the world. Unparalleled quality!

Rather than clusters of old style LEDs, Green-Lite™ employs next generation "surface mount" LEDs (6000K) that produce more light with less glare, consume less power and last longer. The light output of the 8-watt LED array is comparable to a 150-watt halogen. The blended white light is easy on the eyes and the output level is adjustable (dimmable) for maximum operator comfort. Green-Lite™LED technology quickly pays for itself through lower operating costs, longer lighting lifespan and improved productivity. A lower total cost of ownership provides the greenest solution of all! Manufacturer's 10 year mechanical warranty. Five year, 50,000 hour pro-rated LED warranty. Made in USA.

Features:

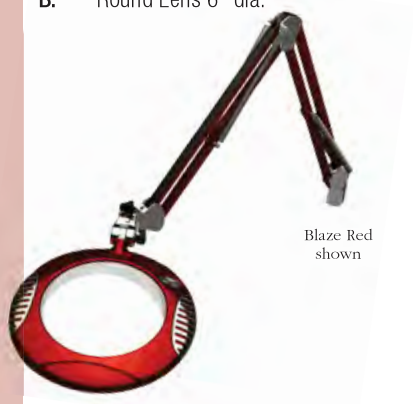
- 4X the lumen output of standard magnifier lamps
- Multi-angle LEDs for shadowless lighting at a full range of focal lengths and heights
- Superb dimming software via convenient, reliable membrane switch
- Reduced glare, heat and energy consumption
- 4 diopter (2X) lens
- Patented "Elite" arms are slim but have the greatest holding power of any arm of this type in the world
- Proudly made in the USA and available in eight colors

Specifications:

- 43" Arm Reach
- Mounting Style Table Edge Clamp up to 2½" thick
- Electrical 120 Volt–240 Volt
- Net/Ship.Wt. 20 lbs./22 lbs.

	Description	Color	Item#	Each
A.	Rectangle Lens 7" x 5¼"	Carbon Black	821-5360	$499.00
		Blaze Red	821-5364	499.00
		Blazing Yellow*	821-5361	499.00
		Racing Green*	821-5365	499.00
		Brilliant Orange*	821-5362	499.00
		Silver*	821-5366	499.00
		Spectre Blue*	821-5363	499.00
		Medical White	821-5367	499.00
		*2-4 Weeks Delivery		
B.	Round Lens 6" dia.	Carbon Black	821-5368	$399.00
		Blaze Red	821-5372	399.00
		Blazing Yellow*	821-5369	399.00
		Racing Green*	821-5373	399.00
		Brilliant Orange*	821-5370	399.00
		Silver*	821-5374	399.00
		Spectre Blue*	821-5371	399.00
		Medical White	821-5375	399.00
		*2-4 Weeks Delivery		
C.	Optional Weighted Base Sturdy 36 lb. base Measures 12" x 11" x 2" Allow 2-4 weeks for delivery.	Carbon Black	821-5376	$126.00
		Blaze Red	821-5380	126.00
		Blazing Yellow	821-5377	126.00
		Racing Green	821-5381	126.00
		Brilliant Orange	821-5378	126.00
		Silver	821-5382	126.00
		Spectre Blue	821-5379	126.00
		Medical White	821-5383	126.00

Spectre Blue shown



Blaze Red shown

Carbon Black shown

Made in the USA

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A-D Dazor® Fluorescent 43" Reach Floating-Arm Lamps

Dazor's classic 2-tube and 3-tube fluorescent lamps have been stylishly redesigned and now include mirror reflectors providing even more light than original versions. Complete with superior energy efficient electronic ballasts, these laps are equipped with the classic patented "floating" arm allowing precise positioning with ease without drifting or bouncing. The lamps are still durable, all metal construction with single click rocker style on/off switch for instant response. Both have a 43" reach, 7' cord and 3-prong plug.

Select between 2 bulb (30W) and 3 bulb (45W) lamps in either black or white and 110V or 220V. All supplied with 15W Daylight (6500K) bulbs. Optional 15W Full Spectrum (5500K) bulbs are also available for purchase (see below). Backed by a five-year warranty. Made in USA.

Lamps come complete with a universal clamp which allows the lamp to be clamped or bolted to a horizontal surface up to a 2¼" thick. To bolt to a back splash or to the back of a jewelers workbench, (anything up to 1" in thickness), add the back splash clamp to your order. Available in white or black.

	Description	Item#	Each
A.	Dazor 2-Tube, FL 43" White, 110V	**821-5590**	**$207.00**
B.	Dazor 2-Tube, FL 43" Black, 110V	**821-5592**	**207.00**
	Dazor 2-Tube, FL 43" White, 220V	**821-5591**	**217.00**
	Dazor 2-Tube, FL 43" Black, 220V	**821-5593**	**217.00**
	Dazor 3-Tube, FL 43" White, 110V	**821-5594**	**215.00**
	Dazor 3-Tube, FL 43" Black, 110V	**821-5596**	**215.00**
	Dazor 3-Tube, FL 43" White, 220V	**821-5595**	**232.00**
	Dazor 3-Tube, FL 43" Black, 220V	**821-5597**	**232.00**
C.	Optional Back Splash Clamp White	**821-5598**	**49.00**
D.	Optional Back Splash Clamp Black	**821-5599**	**49.00**

E. Dazor® Fluorescent Magnifying Lamps

Ideal for assembly, inspection and other high-precision work. Feature 5" diameter 3-diopter crown optical glass lens with shade and 22W cool white fluorescent tube for total visual freedom with minimal eyestrain. Provide 75% magnification at 13" focal distance along with even, shadow-free light from all angles. Made of steel to endure years of rough use. Can be mounted horizontally or vertically on a bench, machine or wall. Available with a 28" heavy-duty lock-joint arm with three control knobs for reducing vibration or a 42" counterbalanced floating arm for fast, easy positioning. Color: gray. Electrical: 115V, 60Hz with 9' cord and 3-prong plug. UL approved. Backed by five-year warranty.

	Description	Item#	EACH Prices 1-2	3+
E.	Lamp with 28" Lock-Joint Arm	**821-5534**	**$225.00**	**$218.25**
	Lamp with 42" Floating Arm	**821-5517**	**235.00**	**227.95**
	Optional 22W Circline Full-Spectrum	**821-5304**	**16.00**	**-**
	Replacement 22W Tube	821-5300	13.75	-

F, G Dazor® Full-Spectrum Tubes – For Dazor Floating-Arm, and Magnifying Lamps

Full-spectrum lighting offers several advantages over traditional fluorescent lighting. It displays colors accurately, allowing correct viewing and matching. It produces less glare, reducing eyestrain, headaches and general fatigue, increasing productivity. And it emits less heat, making for a comfortable workplace. Advocates of full-spectrum lighting go so far as to claim it provides health benefits and general feelings of well-being due to its simulation of natural outdoor light. Some even use it to treat a condition known as Seasonal Affective Disorder (SAD).

Jewelers, graphic artists, dentists and other discerning professionals use Dazor's full-spectrum lights to perform their crafts with razor-sharp precision. Now you can as well, without investing a fortune. Just replace the fluorescent tube in your existing Dazor lamp with the appropriate 15W (5900°K) standard or 22W Circline (5000°K) and you can start reaping the benefits of full-spectrum lighting today.

	Description	Fits	Item#	Each
F.	15W Standard	Floating-Arm Lamps	**821-5303**	**$13.50**
G.	22W Circline Full-Spectrum	Magnifying Lamps	**821-5304**	**16.00**

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A, B Dazor® Halogen Lamps

Halogen lamps for producing very intense light at the focal points of assembly and inspection stations. Light from the halogen bulb is more concentrated than that from an incandescent bulb, yet the 20W halogen is a real energy-saver. The 2½" diameter head has a protective shield to guard against bulb breakage. Proper ventilation keeps reflector head cool. The 34" reach industrial-strength, flexible arm works well around most machine tools. Choose from weighted and clamp-on styles. Halogen bulb is rated to 2,000 hours. Color: black. Electrical: 115V, 60Hz with 8' cord and 3-prong plug. UL approved. Backed by a five-year warranty.

	Description	Item#	EACH Prices 1-2	3+
A.	Weighted Desk Lamp	**821-5555**	**$185.00**	**$179.45**
B.	Clamp-On Lamp	**821-5560**	**195.00**	**189.15**
	Replacement 20W Bulb	821-5549	8.95	-

C. Dazor® Wolf® EcoFlex LED Lamp

Designed in consultation with renowned bench artisan Kate Wolf, the innovative new Wolf EcoFlex by Dazor is an affordable, rugged, environmentally friendly LED bench light. The sleek head rotates 340° vertically and 90° horizontally, and features four 1-watt dimmable high brightness white LEDs optically mixed to produce an even light pattern. The 25" flexible arm exceeds the depth of most jewelry benches and allows you to aim the light exactly where you need it. Dazor's clever thermal engineering allows the LEDs to achieve their rated life of 50,000 hours without the heat!

Features:

- Individual lenses to optically mix illumination and eliminate "hot spots"
- Illumination footprint at surface: 12" circle at 12"; 6" circle at 6"; 3" circle at 3"
- Light Intensity: 500 fc* at 12"; 2000 fc* at 6"; 5,000+ fc* at 3" or less
- Thermally managed for long rated life of 50,000 hours (70% lumen maintenance)
- Dimmable down to 25% of full intensity
- Universal low voltage power: Input AC 100-240V 50/60Hz 0.3A; Output DC 12V
- Splash Guard to protect against debris and liquids
- Grooved aluminum head design removes heat and is comfortable to the touch
- Mounts securely to bench with 2 clamps (included)

Description	Item#	Each
Wolf LED Light 100-240V	**821-5584**	**$150.00**

**Footcandle: a unit of illuminance on a surface that is everywhere one foot from a uniform point source of light of one candle and equal to one lumen per square foot.*

D. Econo LED Flex Light

Our LED Flex Light uses 28 SMD-LEDs (surface mount and light emitting diodes) and advanced circuitry to produce a natural bright light that is easy on the eyes and reproduces colors as they truly are. A proprietary honeycomb lens cover insets the SMD LEDs by 5 mm to reduce glare. Features 2 easy-to-reach light settings, 2-5W (200-500 lumens). Choose the brightness that is best for the task at hand.

LED Flex Light is the new generation of LED lighting and is rated for up to 60,000 hours of use. 1 year manufacturer's warranty. cETLus certified. Made in China.

Features:

- Over 90% energy efficient
- 60% less heat
- Reduced glare
- 26" (66 cm) long metal shield tubing
- Heavy-duty swivel joint
- Commercial grade C-clamp for mounting

Specifications:

Number of SMD-LEDs: 28
Color: 5700 – 6500K (Kelvin)
Lumens: 200 – 500 lm
Power consumption: 2 – 5W
Head diameter: 2.8" (7.2 cm)
Neck length 26": (66 cm)
Dimensions: 32" x 4" x 2.5"
Net Wt/Ship. Wt: 3.5 lbs/4.3 lbs

Description	Item#	Each
Econo LED Flex Light - 110V	**821-5588**	**$113.95**

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A. Magna Deluxe Fluorescent Lamp

Treat yourself to a whole new class of elegant fluorescent lighting with the Magna Deluxe. Features a 55W fluorescent tube in an enclosed 20" head. Provides crisp, flicker-free, uniform light with maximum surface area. Lends a sleek, polished look to your bench. Built-in electronic ballast increases lumens. Head swivels 310° and tilts 210° for great flexibility. Heavy-duty 32" arm with tempered steel springs and smooth-glide tension control knobs allows fast, easy adjustment. Includes C-clamp for mounting on benchtops up to 2" thick. Electrical: 115V, 60Hz with 5' cord and 3-prong plug. UL listed. Backed by a one-year warranty. Imported.

Description	Item#	Each
Magna Deluxe Lamp	**821-5029**	**$160.00**

B. Sirus Quartz Halogen Task Lamp

Provides high-intensity illumination for assembly and inspection. Comes with a 20W MR16 halogen bulb yet accepts up to a 50W bulb. Head can be moved up and down. Flexible arm with 20½" reach resists vibration, staying put without drifting. Includes on/off rocker switch on head, C-clamp for mounting on benchtops up to 1¾" thick. Electrical: 115V, 60Hz with 5' cord and polarized plug. UL listed. Backed by a one-year warranty. Imported.

Description	Item#	Each
Sirus Quartz Task Lamp	**821-5025**	**$105.25**

C. Econo Fluorescent Magnifying Lamp

The affordable solution for viewing small, detailed areas. Uses a 13W fluorescent tube and 5X lens. Provides cool white light and good magnification to reduce eyestrain, helping you work faster. Flexible 11½" gooseneck allows easy positioning. Weighted metal base with nonslip pad ensures stability. Flip-down cover protects 4" diameter lens from dust when not in use. Electrical: 120V, 60Hz with 5' cord and polarized plug. UL listed. Imported.

Description	Item#	Each
Econo Magnifying Lamp	**821-5010**	**$34.95**

D. Fluorescent Flip Lamp

A compact 13W fluorescent lamp ideal for the workshop. Unique swivel arm with 180° range delivers light at the precise angle you need: just raise arm to turn on lamp, and lower to turn off. Easy to use on crowded benchtops. Lightweight yet sturdy. Measures 10½" high with 3¼" square base. Electrical: 120V, 60Hz with 6' cord and polarized plug. Imported.

Description	Item#	Each
Flip Lamp	**821-5006**	**$29.95**

E-G Incandescent Multi Lamp with 24" Flex Arm

This unique lamp with vinyl-covered flexible arm can be mounted virtually anywhere extra light is needed. Comes with three different mounting fixtures: nylon and steel buttons, which occupy roughly 1" of space and can be mounted on any flat surface, as well as a right-angle bracket. Simply slide the base of the lamp arm over mounting button, and the lamp locks firmly in place. Includes studs for horizontal and vertical surfaces. Installs in just a few minutes. Easy to clean with soap and water. Uses up to a 100W incandescent bulb (not included). Electrical: 110V with heavy-duty jacketed cord and 3-prong plug.

Optional magnifier attachment with shade-mounted, 2" x 4" ground-glass magnifying lens sold separately. The main lens offers 2X magnification with a one inch diameter 4X lens in the corner and offers a clear view of small workpieces. Made in USA.

Features:

- Lightweight, durable construction
- 360° rotating base and 1½-turn rotating shade
- Center-suspended reflector and socket for keeping shade cool

Description	Item#	EACH Prices 1-2	3+
E. Black Multi Lamp with 24" Arm	**821-4510**	**$91.25**	**$86.69**
F. Optional Magnifier Attachment	**821-4530**	**49.50**	**-**
G. Replacement Steel Button	821-4540	4.35	-
Replacement Right-Angle Bracket	821-4550	5.25	-

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A. ProVue Touch LED Lamps

The ProVue touch series lamps feature modern slim design with energy saving LEDs that provide shadow free illumination. Two models available: The ProVue Touch features a 108 LED panel. The ProVue Touch Dual featuring 108 white LED and 72 UV LEDs.

Both have a large 7" diameter lens mounted in an ABS plastic housing and attached to a 35" industrial grade spring balance arm. Dual voltage: Operates at 110V or 220V. 5' cord. UL listed. Backed by a one-year warranty. Imported.

Features:

- Lumens: 420LM
- Color Temperature: 6400K
- Touch Sensitive 3 stage on-off switch & for controlling light intensity
- 7" Crystal Clear 1.75X (3 diopter) lens
- 3.00X – 8 diopter mounted power spot lens
- Lens can be easily removed and replaced when necessary. Lens cover included for protection.
- Built in metal grips for quick and easy positioning
- Heavy duty metal clamp with a 3½" opening

Description	Item#	Each
A. ProVue Touch LED Magnifying Lamp	**821-5050**	**$325.00**
ProVue Touch Dual LED Magnifying Lamp with UV	**821-5051**	**366.00**

A

B. Mighty Mag Fluorescent Magnifying Lamp

With its extra-large 7" x 5.2" lens, Mighty Mag boasts the widest field of view of all our magnifying lamps. The 3-diopter lens provides 1.75X magnification for making objects appear 75% larger. Focal distance of 13" offers plenty of room to work under the lens. Twin 9W daylight fluorescent tubes mounted on each side of lens help illuminate objects from several angles and can be switched on and off independently to control glare and shadows. Mar-resistant beige plastic housing. Mounted on spring-balanced 35" steel arm with 30" reach. Can be set in any position. Includes C-clamp for mounting on benchtops up to 2" thick. Electrical: 115V, 60Hz with 5' cord and 3-prong plug. UL listed. Backed by a one-year warranty. Imported.

Description	Item#	Each
Mighty Mag Magnifying Lamp	**821-5045**	**$182.00**

B

C. ProVue Fluorescent Magnifying Lamp

The professional's choice for inspection, assembly, beading and other fine work. Each features ultra-bright 22W circular fluorescent tube and crystal-clear 3-diopter (1.75X) magnifying lens for 360° distortion-free viewing. Two optional add-on lenses provide more magnification: 3-diopter auxiliary lens adds another 1.75X for total magnification of 3.5X, and 5-diopter swing-away lens adds another 2.25X for total magnification of 4X. Lamp head measures 9" dia. with 5" dia. lens. The 45" spring-balanced arm locks in place via smooth-glide thumbscrews. Built to last with all-metal construction in powder-coated beige. Includes C-clamp for mounting on benchtops up to 2" thick. Electrical: 115V, 60Hz with 5' cord and 3-prong plug. UL listed. Backed by a one-year warranty. Imported.

Description	Item#	Each
C. ProVue Magnifying Lamp	**821-5040**	**$119.50**
Optional 3-Diopter Lens (+1.75X)	**821-5043**	**27.65**
Optional 5-Diopter Lens (+2.25X)	**821-5042**	**9.50**
Replacement 22W Tube	821-5044	**14.75**

C

D. Mighty Bright LED Mini Task Light

This breakthrough light excels equally as a task, craft or utility light. Two bright white, energy-efficient LEDs make the Mighty Bright LED Mini Task Light very bright, yet the non-glaring glow makes for a comfortable work light. Set the intensity by pressing the button once or twice. Each LED lasts 100,000 hours. Clip and twist the gooseneck to set the perfect angle and clip in place or use the stable free-standing base. Three AAA batteries (included) provide 28 hours of operation. If the batteries run low, simply plug in the 120V AC adapter (sold separately) with extra long 6' cord and keep on going. Imported.

		EACH Prices	
Description	Item#	1-2	3+
D. Mighty Bright LED Mini Task Light	**821-5552**	**$18.95**	**$17.06**
AC Adaptor For Mighty Bright	**821-5553**	**9.95**	**-**

D

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Important Magnifier Characteristics

Magnification Power: The ability of a lens to increase the visual size of an object. The symbol "X" represents power (a 3X magnifier triples the size of an image).

Focal Distance: The distance a magnifier should be from an object for it to be in focus (a 10X magnifier has a focal distance of 1"). Measured from lens unless otherwise noted.

A

A. 10X LED & UV Illuminated Ring Light – Rechargeable

Our compact loupe combines a 10X 20.5mm distortion free lens with the convenience of bright LED & UV lights. Easily switch between LED and UV when you want to see the fluorescence in diamonds. Can be used continually for up to thirty minutes and fully recharges in an hour using the provided USB adaptor. Supplied with USB recharge cord, carrying case and convenient neck strap.

Description	Focal Distance	Lens Diameter	Item#	EACH Prices 1-2	3+
Ring Light	1"	20.5mm	**272-4066**	**$69.95**	**$ 62.96**

B

B. GemOro® 10X LED Light Loupe™

Features a 10X single lens with one built-in LED light. Lets you view gemstones and jewelry under intense illumination. Includes 3 #389 batteries and carrying case. Imported.

Description	Focal Distance	Lens Diameter	Item#	Each
10X LED LightLoupe	1"	21mm	**272-4039**	**$8.95**

C

C. 10X LED Triplet Loupe

View gemstones and jewelry under intense illumination. Features a high-quality aplanatic achromatic 10X triplet lens and built-in LED ring light. Includes 3 L936 batteries and carrying case. Imported.

Description	Focal Distance	Lens Diameter	Item#	EACH Prices 1-2	3+
10X LED Loupe	1"	20.5mm	**272-4065**	**$29.95**	**$26.96**

D

D. 10X Hex Triplet Loupe

This 10X/20.5mm Loupe maintains an extra large field of view while being optically corrected for distortion-free viewing from edge to edge. The lens is also color corrected. Comes in black which reduces glare and is presented in a leather carrying case.

Description	Focal Distance	Lens Diameter	Item#	Each
10X Triplet Loupe	1"	20.5mm	**272-4001**	**$39.95**

E

F

E, F 10X Doublet Loupes

Quality loupes at inexpensive prices. Each has chrome-plated metal swing-away case. Knurled metal grip prevents slipping. Imported.

Description	Focal Distance	Lens Diameter	Item#	EACH Prices 1-2	3+
E. 10X Small Loupe	1"	15mm	**272-4035**	**$7.95**	**$7.16**
F. 10X Large Loupe	1"	21mm	**272-4031**	**14.50**	**13.05**

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A-C 10X Gesswein 20.5mm Hex Triplet Loupes

Generously sized, 20.5mm diameter 10X Triplet Loupes with hex shape for secure grip. A triplet lens (three lenses bonded together) provides excellent color and clarity. These larger loupes are available in black, silver and gold finishes. Supplied in a leather storage case. Made in China.

	Description	Focal Distance	Lens Diameter	Item#	EACH Prices 1-2	3+
A.	10X Black Loupe	1"	20.5mm	**272-4055**	**$17.95**	**$16.16**
B.	10X Silver Loupe	1"	20.5mm	**272-4056**	**17.95**	**16.16**
C.	10X Gold Loupe	1"	20.5mm	**272-4057**	**19.95**	**17.96**

D-F 10X Gesswein Triplet Loupe – With Rubber Grips

High-quality 18mm triplet pocket loupes, featuring a rubber grip for comfort and control. 18mm diameter triplet lens is actually three lenses bonded together for higher correction. Available in black, chrome and gold finishes. Supplied in a leather storage case. Imported.

	Description	Focal Distance	Lens Diameter	Item#	EACH Prices 1-2	3+
D.	10X Black Loupe	1"	18mm	**272-4058**	**$16.95**	**$15.26**
E.	10X Chrome Loupe	1"	18mm	**272-4059**	**16.95**	**15.26**
F.	10X Gold Loupe	1"	18mm	**272-4060**	**18.95**	**17.06**

G-I 10X Diamond-Cut Triplet Loupes

As practical as they are beautiful, these loupes feature a unique diamond-cut design that offers the user a much better grip than conventional loupes. Each has large lens that provides good depth of field with minimal glare. Complete with leather pouch. Imported.

	Description	Focal Distance	Lens Diameter	Item#	EACH Prices 1-2	3+
G.	10X Black Loupe	1"	18mm	**272-4036**	**$11.95**	**$10.76**
H.	10X Chrome Loupe	1"	18mm	**272-4038**	**11.95**	**10.76**
I.	10X Gold Loupe	1"	18mm	**272-4037**	**15.95**	**14.36**

J. Silver-Plated Loupe Chain – 39"

This snake-style chain allows you to keep a loupe around your neck so it's always available to use with customers. Highly flexible for comfortable extended wear. Heavily plated in silver and coated with an anti tarnish agent to keep it looking bright. Measures 39" long. Made in USA.

Description	Item#	Each
Silver-Plated Loupe Chain	**272-4047**	**$8.95**

J

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Bausch & Lomb Magnifiers

Bausch & Lomb had been renowned for excellence in scientific and ophthalmic optics for well over a century providing the following quality features:

- Application-designed optics with the right balance of magnification, field of view and depth of focus for each magnifier's use.
- Lenses made from pure optical glass or optical plastic, crystal clear and free from internal flaws.
- Lens surfaces are finished to their high standards with no wave or other types of surface defects to distort vision.

A

A. Bausch & Lomb® Hastings Triplet Loupes

The best loupes from Bausch & Lomb. Highly corrected for spherical and chromatic aberrations. Feature three layers of optical glass cemented together and large field of view out to lens edge. Swing-away nickel-plated case protects lens and serves as handle.

Description	Focal Distance	Lens Diameter	Item#	Each
7X Hastings Loupe	1½"	19.8mm	**272-2039**	**$55.75**
10X Hastings Loupe	1"	15.8mm	**272-2040**	**55.29**
20X Hastings Loupe	½"	8.3mm	**272-2060**	**68.70**

B

B. Bausch & Lomb® Coddington Loupes

	Description	Focal Distance	Lens Diameter	Item#	Each
B.	10X Coddington Loupe	1"	19.8mm	**272-2010**	**$36.35**
	20X Coddington Loupe	½"	12.5mm	**272-2030**	**43.90**

C

C. Bausch & Lomb® 10X Hastings Triplet Eye Loupe

The best eye loupe from Bausch & Lomb. Consists of a Hastings triplet lens in a lightweight watchmaker's style frame. Features three layers of optical glass cemented together and a large field of view out to lens edge. Can be used with headband (see below).

Description	Focal Distance	Lens Diameter	Item#	Each
10X Hastings Eye Loupe	1"	15.8mm	**272-1008**	**$68.89**

D

D. Bausch & Lomb® Eye Loupes

Lightweight, comfortable single lens eye loupes with precision-ground, polished optical glass lenses. Can be used with headband (see below).

	Description	Focal Distance	Lens Diameter	Item#	Each
D.	4X	2½"	25.4mm	**272-1040**	**$20.50**
	5X	2"	25.4mm	**272-1030**	**20.50**
	7X	1½"	25.4mm	**272-1020**	**20.50**
	10X	1"	25.4mm	**272-1010**	**24.25**

E

E. Bausch & Lomb® Eye Loupe Headband

For use with single-lens and Hastings Triplet loupes (see above). Frees up your hands so you can work faster. Made of black neoprene with Velcro end closures.

Description	Item#	Each
Eye Loupe Headband	**272-1005**	**$12.98**

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A. Eschenbach 10X Aplanatic Precision Metal Loupe

A precision loupe made of matte chrome-plated brass. Features a 10X aplanatic optical glass lens that delivers a distortion-free image over the entire field of view. Meets EN ISO 9001 standards. Backed by a one-year manufacturer's warranty. Made in Germany.

Description	Focal Distance	Lens Diameter	Item#	Each
10X Metal Loupe	1"	23mm	**272-3255**	**$68.95**

A

B. Eschenbach 10X Aplanatic Precision Fiberglass Loupe

A precision folding loupe made of durable fiberglass-reinforced polyamide. Features a 10X aplanatic optical glass lens that delivers a distortion-free image over the entire field of view. Keeps out dust when closed, protecting lens from damage. Meets EN ISO 9001 standards. Backed by a one-year manufacturer's warranty. Made in Germany.

Description	Focal Distance	Lens Diameter	Item#	Each
10X Fiberglass Loupe	1"	23mm	**272-3240**	**$57.95**

B

C, D 10X Testers on Stands

Although our linen tester was derived from the textile industry, both these loupes can be used on anything. Both have a magnification power of 10X with focal distance of 1" and a lens diameter of 14.3mm (9/16").

Original Linen Tester stands 1 3/8" high when open and the black surface minimizes glare while allowing easy use of the linen cross hairs on the base as a reference. Folds to a compact 30mmL x 23mmW x 10mmH.

Econo version stands 1 1/8" high when open and folds down to 32mmL x 25mmW x 9mmH.

	Description	Focal Distance	Lens Diameter	Item#	EACH Prices 1-2	3+
C.	Original Linen Tester 10X	1"	14.3mm	**272-4050**	**$30.40**	**$25.33**
D.	Econo Magnifier 10X Silver w/Folding Stand	1"	14.3mm	**272-4051**	**11.95**	**-**

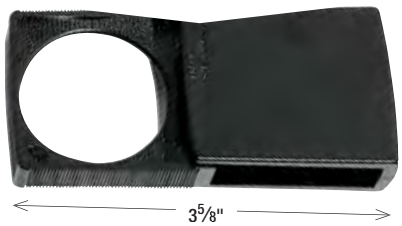
C

D

E. Bausch & Lomb® 5X Pocket Magnifier

Pocket magnifier with slide-on plastic carrying case. Features an aspheric lens that offers a wider field of view at higher power than a normal lens, plus edge-to-edge clarity. Ideal for viewing large areas at high power. Measures approx. 2 1/8"L x 1 5/8"W x 5/8"H when closed.

Description	Focal Distance	Lens Diameter	Item#	EACH Prices 1-2	3+
5X Pocket Magnifier	2"	36mm	**272-5007**	**$11.59**	**$9.66**



E

F. Bausch & Lomb® 3.5X Engraver's Magnifier

An engraver's magnifier with two plano-convex lenses. Has near-universal application in precision work. Provides a wide, flat field.

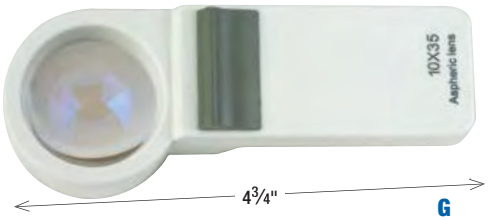
Description	Focal Distance	Lens Diameter	Item#	Each
3.5X Engraver's Magnifier	3"	40mm	**272-5015**	**$50.95**

F

G. 10X Lighted Aspheric Handheld Magnifier

Features built-in light source and aspheric lens for brighter, clearer viewing of small items. Runs on two AA batteries (included). Measures 4 7/8" long.

Description	Focal Distance	Lens Diameter	Item#	EACH Prices 1-2	3+
10X Lighted Magnifier	1"	35mm	**272-5006**	**$18.54**	**$15.45**



G

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A

A. Eschenbach MAXDetail Magnifier

This top-quality headset magnifier with Galilean design provides wide field of view (20°) and independently adjustable magnification and focus for each lens, ensuring excellent clarity for each eye. Objective lenses compensate for ±3-diopter spherical correction or allow adjustment for close-up activities. Lightweight PXM(R) optics, flexible plastic temples and smooth bridge allow extended wear. Frosted objective housing eliminates reflections. Magnifies up to 2X. Includes carrying case and head strap. Made in Germany.

Description	Item#	Each
MAXDetail	**272-3280**	**$99.95**

B

B. Bausch & Lomb® Magna Visor with Three Lens Plates

The lightweight, well-balanced magnifier with formfitting design, extra-thick padded headband and precision adjusting hardware. Can be worn comfortably for extended periods of time without loosening or slipping. Flips up when not in use. Includes three high-quality 1.8X, 2.2X and 2.6X interchangeable lens plates with focal distances of 12", 8" and 6", respectively. Lens plates can be quickly removed and cleaned without tools.

Description	Item#	Each
Magna Visor with 3 lens plates	**272-3103**	**$45.20**

C

C. Optisight™ Magnifier with Three Lens Plates

From the makers of Optivisor, this lightweight yet tough magnifier features a visor assembly with pivot mechanism and headband with adjustable strap for comfortable extended wear. Provides hands-free magnification. Includes three high-quality 1¾"X, 2X and 2½"X interchangeable lens plates with focal distances of 14", 10" and 8", respectively. Optional 2¾"X lens plate with focal distance of 6" also available for intermittent close-up work.

Description	Item#	Each
Optisight with 3 lens plates	**270-0400**	**$28.10**
Optional 2¾X Lens Plate	**270-0404**	**8.15**

D

D. Magni-Focuser® Mark 2 Magnifiers

Feature interchangeable binocular lenses made of shatter-resistant optical acrylic and adjustable headbands for comfort. #115 includes an auxiliary lens that provides an additional 2½"X magnification in one eye.

	Description	Power(s)	Focal Distance(s)	Item#	EACH Prices 1-2	3+
	#105	2¼X	8"	**271-1050**	**$21.60**	**$18.00**
	#107	2¾X	6"	**271-1070**	**21.60**	**18.00**
	#110	3½X	4"	**271-1100**	**22.50**	**18.75**
D.	#115	2¼, 4¾X	8", 3"	**271-1150**	**38.15**	**31.79**

E

E. Bausch & Lomb® Premoistened Lens Cleaning Tissues

Anti-fog, anti-static, nonsilicone-based tissues treated with special surfactants for cleaning all glass and plastic lenses. Ideal for cleaning loupes, glasses, mirrors, even computer screens. Sold in convenient cardboard dispensing boxes of 100 that can be bench- or wall-mounted. Each individually wrapped, premoistened tissue measures 5" x 8". Box measures 9"L x 5⅜"W x 2⅜"H.

Description	Item#	Box of 100
Lens Tissues	**272-1001**	**$14.99**

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A, B Optivisor® Magnifiers

Each Optivisor features an interchangeable binocular lens plate made of high-quality optical glass, ground and polished to precision ophthalmic standards. Lightweight, impact-resistant visor assembly with pivot mechanism and adjustable genuine leather headband allow comfortable extended wear. Available in blue and black. Made in USA.

	Description	Power	Focal Distance	Item#	EACH Prices 1-2	3+
A.	DA-2 Blue	1½X	20"	**270-1020**	**$39.95**	**$35.96**
	DA-3	1¾X	14"	**270-1030**	**39.95**	**35.96**
	DA-4	2X	10"	**270-1040**	**39.95**	**35.96**
	DA-5	2½X	8"	**270-1050**	**39.95**	**35.96**
	DA-7	2¾X	6"	**270-1070**	**43.25**	**38.93**
	DA-10	3½X	4"	**270-1100**	**43.95**	**39.56**
B.	DA-2 Black	1½X	20"	**270-1120**	**39.95**	**35.96**
	DA-3	1¾X	14"	**270-1130**	**39.95**	**35.96**
	DA-4	2X	10"	**270-1140**	**39.95**	**35.96**
	DA-5	2½X	8"	**270-1150**	**39.95**	**35.96**
	DA-7	2¾X	6"	**270-1170**	**43.25**	**38.93**
	DA-10	3½X	4"	**270-1180**	**43.95**	**39.56**

Replacement Items		Item#	Each
Blue Visor Assembly only		270-1010	25.85
Black Visor Assembly only		270-1115	25.85
DA-2	1½X Lens Plate	270-2020	28.50
DA-3	1¾X Lens Plate	270-2030	28.50
DA-4	2X Lens Plate	270-2040	28.50
DA-5	2½X Lens Plate	270-2050	28.50
DA-7	2¾X Lens Plate	270-2070	29.50
DA-10	3½X Lens Plate	270-2100	29.50

A

B

C. Optivisor® LX Magnifiers

Each features a high-quality optical acrylic lens plate made from a precision-ground, highly polished mold. Lightweight yet tough visor assembly with pivot mechanism and adjustable padded leather headband allow comfortable extended wear. Available in blue only. Made in USA.

Description	Power	Focal Distance	Item#	EACH Prices 1-2	3+
LX3	1¾X	14"	**270-1200**	**$30.55**	**$27.50**
LX4	2X	10"	**270-1201**	**30.55**	**27.50**
LX5	2½X	8"	**270-1202**	**29.65**	**26.69**
LX7	2¾X	6"	**270-1203**	**30.55**	**27.50**

C

D. Optivisor® Xenon Light

Clips onto Optivisor (see above) to illuminate the viewing area. Features 6,000-candlepower bright xenon bulb. Swivels for optimal coverage. Runs 5–6 hours on two AA batteries (not included).

	Description	Battery Pack Location	Item#	Each
D.	LT-06, 10" cord	Visor assembly	**270-2150**	**$25.35**
	LT-42, 42" cord	Belt or pocket	**270-2151**	**25.35**
	Replacement Bulb		270-2152	7.85

D

Items sold separately.

E. Optivisor® Optiloupe

Designed for monocular use the Optiloupe easily attaches to either eye of any Optivisor or Optivisor LX (see above) for additional 2½X magnification.

Description	Power	Item#	EACH Prices 1-2	3+
Optiloupe	2½X	**270-2200**	**$12.95**	**$11.66**

E

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A. Eschenbach Precision Galilean Binoculars

These lightweight, well-balanced binoculars provide comfortable hands-free viewing for detailed work. Feature prescription-grade shatter-resistant achromatic 23mm lenses made of PXM optically pure plastic, focusing adjustment and diopter setting for each eyepiece and adjustable nose bridge. Available in 2.5X and 4X powers with 3½" and 1¼" fields of view, respectively. Include leather carrying case. Meet EN ISO 9001 standards. Backed by a one-year manufacturer's warranty. Made in Germany.

Description	Power	Focal Distance	Item#	Each
Galilean Binoculars	2½X	14"	**272-3245**	**$575.00**
	4X	10"	**272-3246**	**598.00**

B. Telesights®

Binocular magnifiers with optical-quality acrylic lenses coated to resist abrasion. Include half-frame for independent use.

	Description	Power	Focal Distance*	Item#	EACH Prices 1-2	3+
B.	#43	1¾X	13½"	**270-0430**	**$36.99**	**$33.29**
	#44	2X	10"	**270-0440**	**36.99**	**33.29**
	#45	2¼X	8"	**270-0450**	**36.99**	**33.29**
	#46	2½X	6⅔"	**270-0460**	**36.99**	**33.29**
	#48	3X	5"	**270-0480**	**39.99**	**35.99**

**Measured from eye. (not from lens as customary)*

C. Donegan Magnifiers – From the Makers of Optivisor

Ideal for small jobs that require your hands to be free. Feature lightweight construction with dual-lens system that eases eyestrain by converging on focal point. Include half-frame for independent use and small clip for attachment to eyeglasses.

Description	Power	Focal Distance	Item#	Each
C03	1¾X	14"	**271-1200**	**$25.15**
C04	2X	10"	**271-1201**	**25.15**
C05	2½X	8"	**271-1202**	**25.15**
C07	2¾X	6"	**271-1203**	**25.15**

D. Eschenbach Clip-On Magnifiers

Feature prescription-grade lenses made of PXM optically pure plastic coated with Cera-Tec for resistance to breakage and scratching and lightweight fiberglass-reinforced plastic clip assembly. Include four soft rubber clip sleeves that protect eyeglasses from abrasion, plastic box and lens cleaning cloth. Meet EN ISO 9001 standards. Backed by a one-year manufacturer's warranty. Made in Germany.

Description	Power	Working Distance	Item#	Each
Clip-On Magnifier	2½X	7"	**272-3260**	**$63.85**
	3X	6"	**272-3261**	**63.85**

E, F Bausch & Lomb® Clip-On Eyeglass Loupes

Mini loupes with optical glass lenses for attachment to wire or plastic eyeglass frames. Double-lens style has two separate lenses that can be used individually or combined. Swing up when not in use. Focal distance: 1½"–3½" depending on magnification.

	Description	Power(s)	Lens Diameter(s)	Item#	Each
E.	Single-Lens Style	4X	24mm	**272-3002**	**$45.50**
		7X	24mm	**272-3000**	**45.50**
F.	Double-Lens Style	4, 7, 11X*	24mm	**272-3010**	**58.49**

**Combined*

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A-D Dino-Lite Digital Handheld Microscopes

Perfect for appraisals, repair, inspection and documentation!

Affordable, compact USB powered digital handheld microscopes for the ultimate digital microscope experience. All **413 models** also include measuring software that allows you to input a magnification value from the microscope zoom control and then measure length, multiple angles, and circular functions. **TL** model boasts enhanced working distance.

Features:

- Camera with powerful magnification capabilities and remarkable color resolution
- DinoCapture software for capturing both pictures and videos
- Micro-Touch trigger mechanism for shooting without a mouse
- 8 ultra-bright LEDs for strong yet clean lighting
- Compact design for portability
- Includes USB 2.0 cable for fast data transfer to your PC or Mac
- Backed by a one-year warranty
- CE approved

Specifications:

Resolution	1.3 MP (1280 x 1024)
Illumination	8 white LEDs
Frame Rate	Up to 30fps
File Format	JPEG, BMP, AVI
Dimensions	1¼"D x 4"L

View instructional video at www.gesswein.com.

A

Model	Zoom	Measuring Software*	Polarizing Filter**	Enhanced Working Distance***	Item#	Each
AM411T	10–50X, 220X	No	No	No	**810-0086**	**$329.00**
AM413T	10–50X, 220X	Yes	No	No	**810-0094**	**399.00**
AD413TL	10–90X	Yes	No	Yes	**810-0092**	**489.00**
AM413 ZTS	10–50X, 220X	Yes	Yes	No	**810-0099**	**509.00**
B. Diffuser F/ZTS Series					**810-0102**	**19.00**
Diffuser F/AM Series					**810-0101**	**19.00**
C. Gooseneck Stand - Flexibility					**810-0090**	**49.00**
D. Tabletop Stand - Stability					**810-0091**	**99.00**
Compact Stand - Portability					**810-0095**	**29.95**
90° View Adapter for AD413TL					**810-0093**	**59.00**

*Allows point-to-point, curvilinear and angular measurements with accuracy up to 0.001".
**Allows adjustable glare reduction, useful in many close-up applications.
***Allows up to 4" more distance between lens and subject.

B

Diffuser for viewing gemstones/ diamonds by removing glare. Microscope sold separately.

C

D

Shown with Laptop and Tabletop stand #810-0091 (not included).

Images taken with Dino-Lite

E. Dino-Lite Analog Handheld Microscope

Connects to a television or monitor for easy group training!

This compact handheld video microscope easily connects to any television or monitor with composite video input (RCA-type, coded yellow), making it perfect for training, inspection, assembly and more. Features powerful zoom capability, CMOS enhanced-color image sensor for excellent image quality and eight ultra-bright LEDs for strong yet clean lighting. Includes 6' composite video cable, AC adapter, cradle stand and storage bag. Recommended usage with tabletop stand #810-0091 (see above). Backed by a one-year warranty. CE approved.

Specifications:

Magnification	10–50X, 200X	Frame Rate	Up to 30fps
Resolution	540 x 496	Dimensions	1-1/4" dia. x 4"L
Illumination	8 white LEDs		

Description	Item#	Each
AM412N	**810-0097**	**$249.00**

E

F. Dino-Lite Light Box Adapter

Perfect for use with your MEDALight!

Quickly and easily mount your Dino-Lite on your MEDALight light box (See p. 332). Made of high-impact plastic.

Description	Item#	Each
Dino-Lite Light Box Adapter	**810-0096**	**$39.00**

F

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A, B ProZoom™
4.5 Stereo-Zoom Binocular and 6.5 Digital Trinocular Microscope Systems

A

ProZoom Scopes on Ball Bearing Bases

Both systems offer the performance and durability required for your most demanding inspection needs. Crystal-clear optics, combined with ultra-bright LED illumination, gives the same performance of much more expensive microscope systems and making them a favorite across many industrial applications. The 10" x 10" robustly built double-ball bearing base/arm assembly makes using either ProZoom effortless, maintaining pinpoint accuracy when locked in. Both versions offer an eye tube inclination of 45°, while the main body rotates 360° in holder. Both feature a dimmable, ultra bright, LED ring light. Both are ESD safe,120~240v, 50/60Hz and have a shipping weight of 65lbs.

The Digital Trinocular System is a "true" trinocular design because you maintain full functionality of both eyepieces when using the video port. Comes complete with 2 Megapixel (1600x1200) USB 2.0 camera with Image Acquisition and Measurement Software Suite for high-quality analysis and documentation.

Specifications:

ProZoom	Binocular	Trinocular
Standard Magnification Range	3.5X - 45X	5X - 65X
Standard 10X Eyepiece	22mm	28mm
Objective Lens	0.5X	0.5X
Standard Lens Working Distance	90mm	108mm
Objective Lens Working Distance	160mm	190mm
Eyepiece Adjustments	5 Diopter	6 Diopter
Total Maximum Magnification with optional accessories	225X	390X
Field of View - Diameter	28.6 - 4.8	28.75 - 3.3
Warranty	5 yr Mechanical	5 yr Mechanical, 1 yr Electrical/Video

Monitor not included

B

Description	Item#	Each
A. ProZoom Binocular Microscope	**271-3080**	**$1,995.00**
B. ProZoom Digital Trinocular Microscope	**271-3085**	**3,945.00**

Accessories	Item#	Each
2X Lens Binocular	**271-3082**	**$125.00**
2X Lens Trinocular	**271-3087**	**139.00**
20X Eyepiece Binocular	**271-3081**	**110.00**
20X Eyepiece Trinocular	**271-3086**	**199.00**

ProZoom Scope on GRS Acrobat Stand

C

C. ProZoom™ 4.5 Stereo-Zoom Binocular Microscopes with GRS Acrobat Stands

These ProZoom Binocular Microscopes combine the same crystal clear optics as the Pro-Zoom 4.5 Stereo-Zoom binocular microscope above with the GRS acrobat stand on the following page to give you the most flexible scope at an affordable price.

Available with either the same extra-bright fluorescent ring light as the Meiji Stereo Zoom scopes on the next page or the dimmable, ultra bright, LED ring light on the Pro-Zoom 4.5 Binocular Microscope above.

Description	Item#	Each
C. Fluorescent System	**271-3095**	**$1,695.00**
LED System	**271-3096**	**1,855.00**

D

D. GRS® Positioning Vise for Stereo Zoom Microscopes

Simply pull a lever, and this vise lets you easily reposition its center of rotation to keep the object within your microscope's field of view. Its upper half moves off-center to left or right as desired; after moving, it rotates about set position. Includes upper jaw plates, five pins and wrench. Spherical diameter: 7.1". Jaw size: 3"W x 1.8"H. Max. jaw opening: 3.5". Weighs a massive 42 lbs. for incredible stability.

Description	Item#	Each
Positioning Vise for Stereo Zoom Microscopes	**271-3025**	**$878.00**

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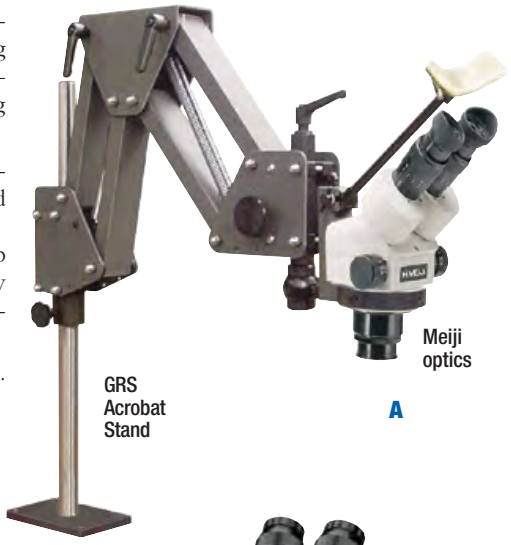
A. Meiji Stereo Zoom Microscopes

Standard Binocular and Camera-Ready Trinocular Styles

From the premier optics manufacturer in Japan, these microscopes feature a Greenough optical design and high-resolution optics free of chromatic and spherical aberrations for yielding crystal-clear upright and unreversed stereoscopic images with rich contrast, impressive brightness and true-to-life color. Boast great depth of field and image flatness for accurate viewing and long working distances for ample workspace. Ideal for inspection of fine details.

Lightweight yet durable all-metal aluminum alloy bodies with premium components and chemical-resistant finishes provide stability and durability for a lifetime of dependable use. The 45°-inclined observation tubes with adjustable interpupillary distance and diopter tubes eliminate eyestrain. GRS acrobat boom stand with friction arms, focus block and padded headrest ensures superb flexibility and comfort. Entire assembly can be easily positioned and quickly swung away when not in use. Friction arms lock in place when needed. Focus block securely holds microscope body. Padded headrest reduces neck and back fatigue.

Ring light with extra-bright circular fluorescent bulb provides cool, glare-free illumination. Fits many other microscopes besides those from Meiji. Electrical: 115V.



A

Features:

- Binocular and Trinocular styles that can be rotated 360° and locked in any position
- High-resolution optics for yielding upright and unreversed stereoscopic images
- Rugged all-metal bodies and components designed to last a lifetime
- Ergonomically positioned bilateral zoom controls
- Interpupillary distance adjustment from 54–75mm
- Dual dioptric adjustment (±5 diopters) for maintaining focus throughout zoom range

Binocular and Trinocular Components:

- 10X eyepieces with eye shields
- 0.5X auxiliary objective lens for increased working distance
- GRS Acrobat Boom Stand with focus block and headrest
- Fluorescent (on/off) Ring Light, 115V
- Protective dust cover
- Instruction manual

Meiji optics with Fluorescent Ring Light

Specifications:

Body Style	Binocular or Trinocular, each with 360° rotation
Zoom Control	Dual, graduated, bilateral mount
Zoom Range	0.7–4.5X (0.35–2.25X with 0.5X objective lens)
Magnification	7–45X (3.5–22.5X with 0.5X objective lens)
Field of View	32.8–5.1mm (65.6–10.2mm with 0.5X objective lens)
Working Distance	93mm (Binocular/Trinocular with 0.5X objective lens: 150/170mm)
Interpupillary Distance	Adjustable from 54–75mm
Dioptric Adjustment	Dual (±5 diopters)

	Description	Item#	Each
A.	Binocular Microscope with Acrobat Stand and Fluorescent Ring Light	**271-3029**	**$2,179.00**
	Trinocular Microscope with Acrobat Stand and Fluorescent Ring Light*	**271-3067**	**2,742.00**

Fluorescent Ring Light Circuline Bulb

Designed for photo and video applications. When the beam splitter is engaged, it does not obstruct the eye tubes; all three viewing ports are lighted for simultaneous use. Can be used with most cameras, including digital, SLR, digital SLR and CCD. Call for available adapters.

B. GemOro® Elite 1030 Microscope

A precision microscope at a surprisingly affordable price. Offers a choice of 10X and 30X magnification. Provides true professional darkfield and brightfield with sliding baffle. Has adjustable iris diaphragm for controlling lower light. Features 360° rotating head for easy focus adjustment. Comes complete with full-view gem clip, comfort eye guards and dustcover. For added surface illumination, an optional fluorescent overhead light can be attached. Backed by a five-year mechanical warranty and a two-year electrical warranty. Imported with optics from Japan.

B

Specifications:

Magnification	10X and 30X	Dimensions	4½"W x 7½"D x 12½"H
Field of View	25mm at 10X	Ship. Wt.	10 lbs.
Electrical	110/220V, 50/60Hz		

	Description	Item#	EACH Prices 1-2	3+
B.	GemOro Elite 1030 Microscope	**810-0083**	**$269.00**	**$242.10**
	Overhead Light	**810-0078**	**79.95**	**-**

All prices subject to change without notice.

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A

A. Premium Digital Caliper – Max 6"/150mm

This extremely accurate caliper can be connected to any computer for recording or printing data. Features large, high-contrast LCD screen for easy readability. Has conversion, zero and hold functions (hold function freezes display for later viewing). Made of hardened stainless steel for durability. Uses setscrew to prevent jaws from moving. Runs for 2–3 years on an efficient lithium wafer battery (included). Measures inside, outside, depth and step. Comes in fitted plastic case with see-through cover.

Specifications:

Resolution 0.0005"/0.01mm Accuracy ±0.001"/0.02mm

Description	Item#	Each
Premium Digital Caliper	**825-1635**	**$170.00**

B

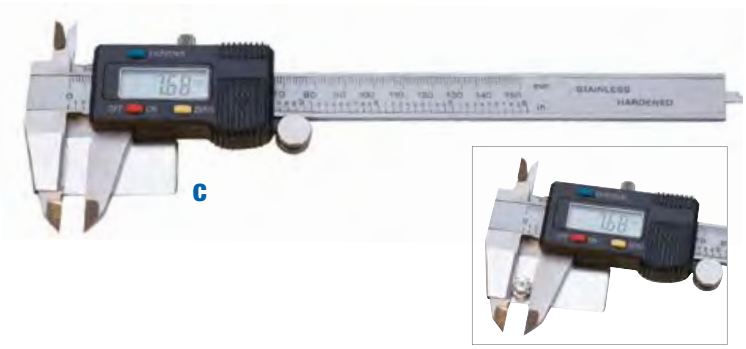
B. Econo Digital Caliper – Max 6"/150mm

Provides full digital accuracy at a reasonable price. Features large LCD screen for good readability. Has conversion and zero functions. Uses setscrew to prevent jaws from moving. Runs for one year on 1.5V silver oxide watch battery (included). Measures inside, outside, depth and step. Comes in fitted plastic box. Made in Switzerland.

Specifications:

Resolution 0.0005"/0.01mm Accuracy ±0.001"/0.03mm

Description	Item#	Each
Econo Digital Caliper	**825-1630**	**$77.50**


C

C. Digital Caliper with Holding Plate – Max 6"/150mm

This caliper comes standard with a stone holding plate attachment for easy measuring for loose stones, watch crystals, beads etc. Convert measurement from millimeters to inches with a touch of a button. LCD display with auto-off system. Measures inside, outside and depth. Comes with nylon case and spare battery.

Specifications:

Max. Measurement 6"/150mm Accuracy ±0.0001"/.01mm

Description	Item#	Each
4" Pocket Digital Caliper	**825-1632**	**$37.95**

D

D. Pocket Digital Caliper – Max 4"/100mm

Provides digital accuracy and portability at a very affordable price. Features large LCD screen as well as conversion and zero functions. Uses setscrew to prevent jaws from moving. Runs for one year on 1.5V silver oxide watch battery (included). Measures inside, outside, depth and step. Comes in fitted plastic box. Made in India.

Specifications:

Resolution 0.0005"/0.01mm Accuracy ±0.001"/0.02mm

Description	Item#	Each
4" Pocket Digital Caliper	**825-1625**	**$35.00**

E

E. Mini Digital Thickness Gauge – Max 1"/25mm

Compact gauge (just 3½" overall) is small enough to take everywhere. Features large LCD screen for good readability. Has conversion and zero functions. Takes both inside and outside measurements in inches and millimeters. Uses setscrew to prevent jaws from moving. Runs on a 1.5V silver oxide watch battery (included). Comes with storage case.

Specifications:

Resolution 0.0005"/0.01mm Accuracy ±0.001"/0.01mm

Description	Item#	Each
Mini Digital Thickness Gauge	**825-1620**	**$59.95**

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A. Swiss Plastic/Fiberglass Dial Caliper – Max 150mm

Made of durable super polyamide plastic and fiberglass. Measuring capacity: 150mm. Dial graduations: 0.1mm. Measures inside, outside, depth and step. Comes complete with fitted plastic case. Made in Switzerland.

Description	Item#	Each
Swiss Plastic/Fiberglass Dial Caliper	**825-1660**	**$34.75**

A

B. Swiss Plastic Dial Caliper – Max 6"/150mm

Made of tough reinforced plastic. Measuring capacity: 6". Dial graduations: 0.01" and 1/64". Measures inside, outside, depth and step. Includes fraction conversion table on back. Comes in plastic case. Made in Switzerland.

Description	Item#	Each
Swiss Plastic Dial Caliper	**825-1815**	**$39.95**

B

C. Econo Vernier Caliper – Max 6"/150mm

Graduations with Vernier: 0.001" and 0.02mm. Depth of jaws: 1.6". Made of hardened stainless steel. Uses setscrew to prevent jaws from moving. Has black graduations on a satin chrome finish for easy inside, outside and depth measurements. Comes in plastic box.

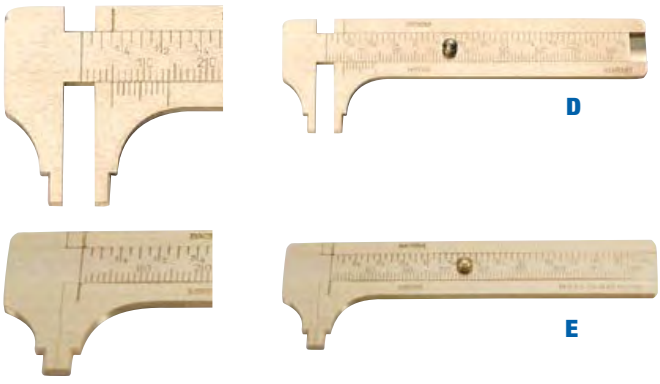
Description	Item#	Each
Econo Vernier Caliper	**825-1725**	**$39.95**

C

D, E Brass Sliding Calipers – inch and mm

High quality Pocket Calipers made of Brass. Both measure up to 3 1/4" (1/16" increments) and to 80mm (1.0mm increments). Notched tips are helpful for measuring internal diameters - ID. Can be used as a conversion tool for inches and millimeters. The Vernier model allows measurements to 0.1mm - OD. Made in Germany.

	Description	Item#	EACH Prices 1-2	3-5	6+
D.	Pocket Vernier Caliper	**813-1200**	**$12.40**	**$11.78**	**$11.16**
E.	Pocket Caliper	**813-1205**	**11.40**	**10.83**	**10.26**


D
E

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A

A. Deluxe Combination Degree Gauge

This high-quality, precision steel degree gauge measures in millimeters and lignes. Far superior to ordinary gauges in terms of construction, readability, convenience and finish. Has screw adjustment at base for perfect accuracy even after years of use. Capacity: 13.5mm or 6 lignes (72 douziemes). Graduations: 0.1mm or 1/12 ligne (douzieme). Measures 8" long. Made in Switzerland.

Description	Item#	Each
Deluxe Combination Degree Gauge	**813-0905**	**$149.00**

B

B. Combination Degree Gauge

Made of satin-finished steel with brass index plate. Capacity: 15mm or 6 lignes (72 douziemes). Graduations: 0.1mm or 1/12 ligne (douzieme). Measures 6½" long.

Description	Item#	Each
Combination Degree Gauge	**813-0900**	**$36.95**

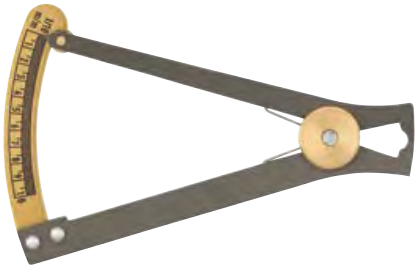
C

C. Degree Gauge

A lightweight, sensitive gauge made of satin-finished steel. Has easy-to-read brass indices. Capacity: 15mm. Graduations: 0.1mm. Measures 6½" long.

Description	Item#	Each
Degree Gauge	**813-0800**	**$33.50**

D



D. Pocket Degree Gauge

An economically priced pocket-size steel gauge. Has easy-to-read black indices on polished brass plate. Capacity: 10mm. Graduations: 0.01mm. Measures 3⅞" long.

Description	Item#	Each
Pocket Degree Gauge	**813-0909**	**$15.95**

E

E. Mini Degree Gauge

A compact, lightweight gauge made of polished stainless steel. Features easy-to-read indices on both sides. Smaller than conventional gauges yet just as accurate. Capacity: 10mm. Graduations: 0.1mm. Measures 4" long.

Description	Item#	Each
Mini Degree Gauge	**813-0850**	**$12.35**

F

F. Econo Micrometer

This affordable micrometer features 6.5mm diameter satin chrome measuring faces with microfine black graduations, friction thimble, locking lever and durable enamel-coated frame. Carbide-tipped for long wear. Capacity: 25mm. Graduations: 0.01mm. Includes wrench and box.

Description	Item#	Each
Econo Micrometer	**825-1827**	**$27.95**

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A. German Divider with Replaceable Tips

Features easily replaceable extra-hard tool steel tips for marking soft and hard metals. Has heavy-duty spring for durability. Measures 3" long. Made in Germany.

Description	Item#	EACH Prices 1-2	3-5	6+
3" Replaceable Divider	**812-1710**	**$11.95**	**$11.35**	**$10.76**
Replacement Tips, pair	812-1711	1.95	-	-

A

B. German Dividers

Well-balanced, precision-machined steel dividers with ground and hardened points. Use for measuring between points, marking shanks for sizing, scribing circles and more. Sold in three lengths. Made in Germany.

Description	Item#	Each
3" Divider	**812-1706**	**$10.20**
4" Divider	**812-1805**	**10.95**
6" Divider	**812-1905**	**12.95**

B

C. Mini German Divider

Precision-machined divider for measuring between points, marking shanks for sizing, scribing circles and more. Measures 2½" long. Made in Germany.

Description	Item#	Each
2 ½" Mini German Divider	**812-1695**	**$12.40**

C

D. Econo Divider

A steel divider with hardened points, knurled pivot handle and adjusting screw. Measures 3" long. Imported.

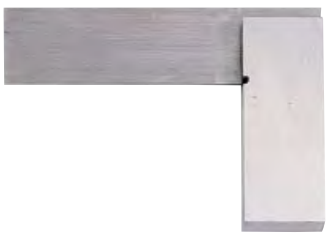
Description	Item#	EACH Prices 1-2	3+
3" Econo Divider	**812-1705**	**$5.95**	**$ 4.96**

D

E. 2" Steel Square

Forms an exact 90° angle for making corners and centering stones. Made of milled steel.

Description	Item#	EACH Prices 1-4	5-9	10+
2" Steel Square	**811-1715**	**$4.45**	**$4.01**	**$3.78**


E

F. Gesswein® 6"/150mm Stainless Steel Ruler

Measures up to 6" (1/32" increments up to 3", 1/16" increments up to 6") or 15.2cm (1mm increments). Features black etched graduations on glare-resistant polished surface for easy reading. Has a table for converting inch fractions to decimal inches or millimeters and a ring length gauge on reverse. Measures ¾" wide.

Description	Item#	EACH Prices 1-4	5-9	10+
6" Stainless Steel Ruler	**811-1710**	**$5.80**	**$5.22**	**$4.93**

F

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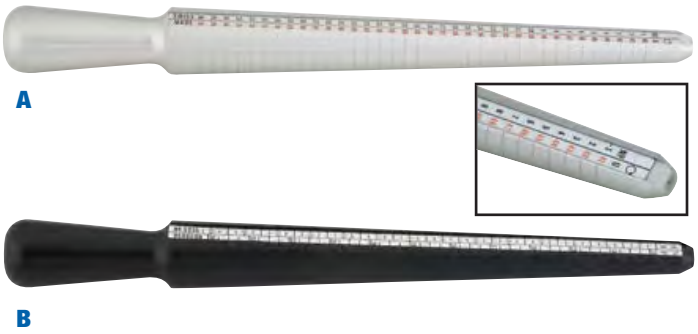

A, B Bergeon Four-Scale Ring Sticks

Heavy-duty ring sticks invaluable for translating foreign sizes. Graduated in four most popular scales: USA sizes 2–15 by ¼-size increments, French sizes 1–36, English sizes D–Z and EURO sizes 41–76mm. Have laser-etched lines. Available in anodized aluminum or black plastic. Measure 10" long. Made in Switzerland.

	Description	Item#	Each
A.	Anodized Aluminum Ring Stick	820-8306	$73.50
B.	Black Plastic Ring Stick	820-8307	73.50

C. Four-Scale Econo Aluminum Ring Stick

Heavy-duty aluminum ring stick for translating foreign sizes. Graduated in four most popular scales: USA sizes 2–15 by ¼-size increments, French sizes 1–36, mm diameter 13–24 and EURO sizes 41–76mm. Have laser-etched lines. Measure 9¾" long. Imported.

Description	Item#	Each
Four-Scale Aluminum Ring Stick	820-8309	$17.95

D. Bergeon Aluminum Ring Stick

Heavy-duty aluminum ring stick. Graduated in USA sizes 1½–15 by ¼-size increments. Features nice heft and glare-free brush finish. Measures 9⅞" long. Made in Switzerland.

Description	Item#	Each
Aluminum Ring Stick	820-8305	$74.00

E-G PEPETOOLS Aluminum Ring Sticks

Round aluminum ring sticks with laser-engraved sizes. EURO style is graduated in sizes 41–76mm and 13–24.5mm and marked in USA sizes 1–15 by ¼-size increments. USA style is graduated in sizes 1–16 by ¼-size increments. USA Standard Sizing Set includes the Aluminum Ring Stick #841-1100, Steel Ring Mandrel #841-1105 and Precision Ring Sizes #820-8055. All are perfectly matched interchangeable components. Imported.

	Description	Item#	Each
E.	EURO Style	841-1101	$30.20
F.	USA Style	841-1100	25.00
G.	USA Standard Sizing Set	841-1110	62.95

H-J PEPETOOLS Grooved Aluminum Ring Sticks

Round aluminum ring sticks with laser-engraved sizes, grooved for accepting stone-set rings. EURO style is graduated in sizes 41–76mm and 13–24.5mm and marked in USA sizes 1–15 by ¼-size increments. USA style is graduated in sizes 1–16 by ¼-size increments. USA Grooved Sizing Set includes the Aluminum Ring Stick #841-1103, Steel Ring Mandrel #841-1107 and Precision Ring Sizes #820-8055. All are perfectly matched interchangeable components. Imported.

	Description	Item#	Each
H.	EURO Style	841-1104	$35.60
I.	USA Style	841-1103	27.95
J.	USA Grooved Sizing Set	841-1111	62.00

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A. Grooved Aluminum Ring Stick

Round aluminum ring stick grooved for accepting stone-set rings. Graduated in sizes 1–13 by ¼-size increments. Has length gauge to measure shank stock for specific ring sizes.

Description	Item#	Each
Grooved Aluminum Ring Stick	**841-1250**	**$21.75**

A

B. Deluxe Grooved Plastic Ring Stick

Extremely accurate hollow plastic ring stick with marked recessed metal insert. Graduated in USA sizes 1–15 by ¼-size increments. Has groove for holding stone-set rings and gauge for measuring material needed to make specific ring sizes. Color may vary. Made in Germany.

		EACH Prices	
Description	Item#	1-2	3+
Deluxe Grooved Plastic	**820-8300**	**$47.00**	**$42.30**

B

C. Grooved Plastic Ring Stick

Made of durable black plastic. Has groove for stone-set rings. Graduated in sizes 1–15 by ¼-size increments.

Description	Item#	Each
Grooved Plastic Ring Stick	**820-8310**	**$4.95**

C

D. Wooden Ring Stick

An extremely accurate, finely finished hardwood ring stick. Graduated in sizes 3–15. Great for wirework because it won't scratch jewelry. Less likely than metal ring sticks to damage glass and other fine surfaces.

		EACH Prices	
Description	Item#	1-2	3+
Wooden Ring Stick	**816-0180**	**$12.95**	**$11.66**

D

E. Mark-a-Size

Lets you resize rings accurately. Etches exact amount of material to be removed directly onto the ring shank for correct sizing in ¼-size increments from ¼ size up to 3 sizes. Made of tempered steel. Measures only 3"L x 1"W x ¾" thick when closed.

Description	Item#	Each
Mark-a-Size	**816-0170**	**$45.00**

E

F. Master Ring Sizing Vise Set

Designed by a goldsmith, this set makes ring sizing faster and safer. Yields outstanding results each and every time. Includes two wooden bench pins: one with measuring gauge, middle long slot for cutting shapes, two rubber posts for cutting rings, locking posts for holding delicate items, front slot for cutting stock and front pin for sanding; the other with a single upright nonslip peg for bracing rings during the cleanup phase of sizing. Includes instructional DVD.

Description	Item#	Each
Master Ring Sizing Vise Set	**814-0980**	**$62.00**

F

G. Display Trays and Velvet Pads

Vibrant velvet pads for providing wonderful contrast to jewelry and protecting glass countertops from accidental damage by ring sticks. Measures 14¾"L x 8¼"W.

Description	Item#	Each
Black Velvet Pad	**807-1070**	**$3.95**

G

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A

B

C

A-C PEPETOOLS Steel Ring Mandrels

Round steel ring mandrels with laser-engraved sizes. EURO style is graduated in sizes 41–76mm and 13–24.5mm and marked in USA sizes 1–16 by ¼-size increments. USA style is graduated in sizes 1–16 by ¼-size increments. USA Standard Sizing Set includes the Aluminum Ring Stick #841-1100, Steel Ring Mandrel #841-1105 and Precision Ring Sizes #820-8055. All are perfectly matched interchangeable components. Imported.

	Description	Item#	Each
A.	EURO Style	841-1106	$31.75
B.	USA Style	841-1105	27.95
C.	USA Standard Sizing Set	841-1110	62.95

D

E

F

D-F PEPETOOLS Grooved Steel Ring Mandrels

Round steel ring mandrels with laser-engraved sizes, grooved for accepting stone-set rings. EURO style is graduated in sizes 41–76mm and 13–24.5mm and marked in USA sizes 1–15 by ¼-size increments. USA style is graduated in sizes 1–16 by ¼-size increments. USA Grooved Sizing Set includes the Aluminum Ring Stick #841-1103, Steel Ring Mandrel #841-1107 and Precision Ring Sizes #820-8055. All are perfectly matched interchangeable components. Imported.

	Description	Item#	Each
D.	EURO Style	841-1108	$29.10
E.	USA Style	841-1107	22.40
F.	USA Grooved Sizing Set	841-1111	62.00

G

G. PEPETOOLS Square Steel Ring Mandrel

Square steel ring mandrel with rounded corners for holding, shaping and straightening rings. Tapers from 24mm to 12mm square. Imported.

Description	Item#	Each
Square Steel Ring Mandrel	841-1109	$33.35

H

I

H, I Steel Ring Mandrels

Round steel ring mandrels. Available in plain style or grooved style for stone-set rings. Graduated in sizes 1–16 by ¼-size increments.

	Description	Item#	Each
H.	Plain Style	841-1165	$32.00
I.	Grooved Style	841-1170	32.50

J

J. Steel Mandrel for Large Rings

Round steel mandrel for holding large rings, bezels, hoop earrings and other items. Graduated in sizes 16–24 by ¼-size increments. Features knurled handle for solid grip. Measures 8¼" long.

Description	Item#	Each
Steel Mandrel for Large Rings	841-1171	$32.65

K

K. Mandrel Rest

Holding a ring mandrel while working can be awkward. This rest holds the mandrel at both ends to solve the problem. Also holds bracelet mandrels without tangs. Can be secured to your benchtop. Made of cast iron. Mandrel not included.

Description	Item#	Each
Mandrel Rest	841-2080	$36.60

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A. Elma® Ringmeter – For fast, easy ring size measurements!

This revolutionary digital device lets you measure an exact finger circumference in any international standard at the touch of a button. Features a universal ergonomic design for left- or right-handed operation. Capacity: 13–26mm dia. Includes a storage cradle and operating instructions. Runs on just one 9V battery (included). Measures 2½"W x 9¼"L. Weighs 1 lb. Made in Germany.

Description	Item#	Each
Ringmeter	**816-0176**	**$128.50**

A

B. Four-Scale Metal Ring Sizes

Nickel-plated, brightly polished 3mm wide metal bands (36 total) marked with inside diameters from 13.0–24.2mm, circumferences from 41–76mm and closest equivalents of USA sizes from 1–15½ and French sizes from 1–36. Seamless one-piece construction.

Description	Item#	Each
Four-Scale Metal Ring Sizes	**816-0174**	**$28.50**

B

C. Wide Metal Ring Sizes

Nickel-plated, polished 7mm wide metal bands (29 total) in sizes 1–15 by ½-size increments. Use to measure fingers for wide rings.

		EACH Prices	
Description	Item#	1-2	3+
Wide Metal Ring Sizes	**820-8150**	**$14.65**	**$13.19**

C

D. Metal Ring Sizes

Durable, highly polished metal bands (20 total) in sizes 4–13 by ½-size increments.

		EACH Prices	
Description	Item#	1-2	3+
Metal Ring Sizes	**820-8060**	**$13.95**	**$12.56**

D

E. PEPETOOLS Precision Steel Ring Sizes

Unpolished die-struck steel bands (31 total) in USA sizes 1–16 by ½-size increments. Tapered for an absolutely perfect match with USA Steel Ring Mandrels and Aluminum Ring Sticks listed on pp. 354, 356. Ideal for precision sizing jobs.

Description	Item#	Each
USA Precision Steel Ring Sizes	**820-8055**	**$12.40**

E

F. Econo Plastic Ring Sizes

Lightweight turquoise plastic bands (29 total) in sizes 1–15 by ½-size increments. Can be given to customers for use at home.

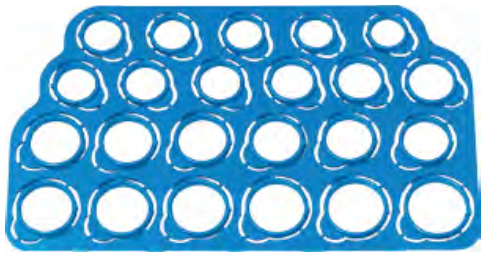
		EACH Prices		
Description	Item#	1-2	3-11	12+
Econo Plastic Ring Sizes	**820-8100**	**$1.50**	**$1.35**	**$1.13**

F

G. Disposable Plastic Ring Sizes

Blue plastic bands in sizes 2½–14 by ½-size increments (23 total). Just punch out the one you need for each sizing job to ensure a perfect fit. Sold in sets of 12 sheets (276 bands per set).

		EACH Prices	
Description	Item#	1-11	12+
Disposable Plastic Ring Sizes	**820-8105**	**$5.00**	**$4.50**



G

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Mettler Toledo – A Market Leading Scale Manufacturer

With a global presence and a high reputation built up over 100 years of precision weighing and analytical instrument product development, the Swiss company Mettler is a world leader of top quality instruments. The two scales below represent their latest innovative development for the professional jeweler. Both scales will fulfill your essential daily weighing requirements with speed, reliability and accuracy. Made in Switzerland.

A

A. Mettler Gold Scale JE-3002G/A

Legal for Trade, Pre-sealed – 3200g x 0.01g

The Mettler Toledo JE balance features an intuitive menu, easy to read display and 7 built-in applications. Toggle key allows instant switching between 17 weighing units (ct, g, mg, kg, pound, ounce, tr oz, grain, dwt, momme, etc.). Connects to PC or printer with RS232 interface. Solid metal base, reinforced body and overload protection up to 100kg. Legal for trade. One year warranty. Made in Switzerland.

Specifications:

Maximum Capacity: 3200g
Readability: 0.01g
Platform size: 7" x 7"
Setting time (typical): 1.0 sec.
Electrical: 115V AC adapter (accepts 2 AA batteries)
Weight: 7lbs. (3.2kg)

Description	Item#	Each
Mettler Gold Scale JE-3002G/A	**200-3652**	**$1,265.00**

B

B. Mettler Carat Scale JE-703C/A

Legal for Trade, Pre-sealed – 700ct x 0.001ct

The Mettler Toledo JE Carat Scale features an intuitive menu, easy to read display and 7 built-in applications. Toggle key allows instant switching between carats and grams. Connects to PC or printer with RS232 interface, no additional software needed. Solid metal base, reinforced body and overload protection. Legal for trade. One year warranty. Made in Switzerland.

Specifications:

Maximum Capacity: 700ct/140g
Readability: 0.001ct/0.1 mg
Platform size: 3½" dia.
Setting time (typical): 2.0 sec.
Electrical: 115V AC adapter (accepts 2 AA batteries)
Weight: 10lbs. (4.5kg)

Description	Item#	Each
Mettler Carat Scale JE-703C/A	**200-3653**	**$1,425.00**

C

C. A&D Gold Scale EK-1200i

Legal for Trade, Class 2 – 1200g x 0.1g

A&D Company, based in Japan, has been manufacturing electronic balances for over 30 years and is well known for high accuracy, long life and low cost – ISO 9000 Certified. The EK-1200i compact balance features a large easy to read display, full digital calibration, overload protection, 9 weighing units (g, ct, oz, ozt, dwt, tl, grain, momme) and a counting function. Connects to PC or printer with RS232 interface. Has a security ring to prevent theft. Legal for trade, Class 2. Five year warrantee. Made in Japan.

Specifications:

Maximum Capacity: 1200g
Readability: 0.1g
Platform size: 5.2" x 6.7"
Electrical: 115v AC adapter
Weight: 3.3lbs. (1.5kg)

Description	Item#	Each
Gold Scale EK-1200i	**200-3655**	**$299.00**

D

D. Pocket Pan Gram Scale – 500g x 0.01g

Compact Design, portable to go anywhere scale comes with plastic cover to keep weighing pan clean and easy loading.

Cover can be used as a weighing tray. Powered by 2 AAA batteries. Scale features auto-off function with cool blue backlit LED display.

Weighs g, oz, gn and ct. Two year warrantee. Made in China.

Specifications:

Maximum Capacity: 500g
Readability: 0.01g
Platform size: 4.0" x 4.0"
Weight: 8.5oz (240g)

Description	Item#	Each
Pocket Pan Scale	**200-3642**	**$45.00**

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A. MY WEIGH™ Palmscale® 8.0 - Carat and Gram

The perfect field scale for jewelers, law enforcement, dieticians and anyone who requires portable precision weighing. Features dual line display with price computing functions and the ability to display two modes at the same time (e.g., both grams and ounces). Reverse lit LCD display makes the scale easy to read in all weighing environments. The Hydro Hinge provides easy opening of the scale with just the flick of a button. Powered by two AAA batteries. Sleek chrome body and rubberized form—fitting casing. Measures 3¼"W x 4¾"D overall. Platform is 2.7" x 2.5".

Specifications:

Capacity x Grad. 300g x 0.01g / 1500.0ct. x 0.1ct.
192.90dwt x 0.01dwt / 10.582oz. x 0.001oz.
4629.7gn x 0.1gn

Description	Item#	Each
Palmscale 8.0	**200-3630**	**$74.99**

A

B. GemPro 250 - Carat and Gram Scale

A compact scale bound to surpass expectations of even the most demanding jeweler. Reads in grams, carats, grains, pennyweights, ounces and troy ounces. With its dual-division capability, static-electricity resistance, three calibration settings, six weighing modes, programmable auto-off function (1–9 minutes), optional backlight and full tare function, this scale is in a league of its own. Includes calibration weight, stainless steel expansion tray, expansion scoop/bowl, adjustable stabilization feet with level indicator and protective hard plastic storage case. Runs on 4 AAA batteries or 110V AC adapter (included). Measures 3¾"W x 5¼"D x 2"H.

Specifications:

Capacity x Grad. 50g x 0.002g / 250ct. x 0.01ct. /
771gn x 0.02gn / 32.150dwt x 0.002dwt /
1.764oz. x 0.0001oz. / 1.608tr.oz. x 0.0001tr.oz.

Description	Item#	Each
GemPro 250	**200-3628**	**$235.00**

B

C. Dino-Lite Handheld Microscopes

Perfect for appraisals, repair, inspection and documentation!

Affordable, compact USB powered digital handheld microscopes for the ultimate digital microscope experience. All **413 models** also include measuring software that allows you to input a magnification value from the microscope zoom control and then measure length, multiple angles, and circular functions. **TL** model boasts enhanced working distance.

Features:

- Digital camera with powerful magnification capabilities and remarkable color resolution
- DinoCapture software for capturing both pictures and videos
- Micro-Touch trigger mechanism for shooting without a mouse
- 8 ultra-bright LEDs for strong yet clean lighting
- Compact design for portability
- Includes USB 2.0 cable for fast data transfer to your PC or Mac
- Backed by a one-year warranty
- CE approved

Specifications:

Resolution: 1.3 MP (1280 x 1024)
Illumination: 8 white LEDs
Frame Rate: Up to 30fps
File Format: JPEG, BMP, AVI
Dimensions: 1¼"D x 4"L

View instructional video at www.gesswein.com

Model	Zoom	Measuring Software*	Polarizing Filter**	Enhanced Working Distance***	Item#	Each
AM411T	10–50X, 220X	No	No	No	**810-0086**	**$329.00**
AM413T	10–50X, 220X	Yes	No	No	**810-0094**	**399.00**
AD413TL	10X, 20–92X	Yes	No	Yes	**810-0092**	**489.00**
AM413ZTS	10–50X, 220X	Yes	Yes	No	**810-0099**	**509.00**
Gooseneck Stand - Flexibility					**810-0090**	**49.00**
Tabletop Stand - Stability					**810-0091**	**99.00**
Compact Stand - Portability					**810-0095**	**29.95**
90° View Adapter for AD413TL					**810-0093**	**59.00**
Diffuser F/AM Series					**810-0101**	**19.00**
Diffuser F/ZTS Series					**810-0102**	**19.00**

**Allows point-to-point, curvilinear and angular measurements with accuracy up to 0.001".*
***Allows adjustable glare reduction, useful in many close-up applications.*
****Allows up to 4" more distance between lens and subject.*

Images taken with Dino-Lite C

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A

B

A, B Professional Series Digital Gram Scales

The perfect countertop/portable gold scale for professional jewelers and gold wholesalers. The GemOro Platinum PRO Series offers significantly greater capacity than competitive scales, plus the precision, durability and features you need. Unmatched performance, low profile design, rock solid stability and more — at a real value of a price.

Features:

- PRO801 weighs up to 800 grams x 0.1g
- PRO1601 weighs up to 1600 grams x 0.1g
- Both also weigh dwt, ozt, oz, lbs., kg.
- Parts counting
- Push button digital calibration, tare, memory, hold, overload protection and auto-off functions
- Large stainless steel weighing platform
- Extra large adjustable backlit LCD display
- Durable ABS construction with exclusive protective EZ-grip rubberized paint finish
- Adjustable feet and leveling bubble
- Powered by (6) included long-lasting AA alkaline batteries or by its exclusive universal voltage 100V-240V AC adaptor
- Stainless steel calibration weight included
- 5 Year limited replacement warranty
- Ship wt. 6.5 lb. or 8 lb.

Description	Item#	EACH Prices 1-2	3+
A. Platinum PRO801 (800g)	**200-3635**	**$89.95**	**$80.96**
B. Platinum PRO1601 (1600g)	**200-3637**	**119.95**	**107.96**

C

C. Professional Series High Capacity Digital Gram Scale

Features:

- Weighs up to 6000 grams x 0.1g
- Also weighs in dwt, ozt, oz, lbs., kg.
- Parts counting PCS
- Push button digital calibration, tare, memory, hold, overload protection, battery saving auto-off and beep tone functions
- Large stainless steel weighing platform
- Precision load cell technology
- Adjustable height feet and leveling bubble indicator
- Low battery and weight stability indication
- Large size, adjustable, bright blue backlit LCD display
- 6.5" x 4.5" removable, stainless steel weighing platform
- Removable protective splash guard dust cover
- Powered by (6) supplied AA batteries or included auto-adjustable, universal voltage 100V-240V AC adaptor
- Durable ABS construction with exclusive protective EZ-grip rubberized paint finish
- 5 Year limited replacement warranty
- Ship wt. 5 lb.

Description	Item#	EACH Prices 1-2	3+
C. Platinum PRO6000 (6000g)	**200-3639**	**$179.95**	**$161.96**
5000g Calibration Weight (Sold Separately)*	**200-3597**	**38.95**	**-**

This precision weight is required to recalibrate the PRO6000 scale. Ship wt.11 lb.

D

D. Premium Pocket Gram Scale

Unique round pocket scale offers high capacity, precision, durability and more.

Features:

- 800g x 0.1g, dwt, ozt and oz
- Stainless steel weighing platform
- Bright blue backlit LCD display
- Push button digital calibration, tare, memory, low battery indicator and battery saving auto-off functions
- Powered by 2 long-life AAA alkaline batteries (included)
- Includes protective snap-on cover that also serves as a useful weighing tray
- Durable ABS construction
- Black EZ-grip rubberized paint finish
- 5 Year limited replacement warranty
- Ship wt. 6.6 oz.

Description	Item#	EACH Prices 1-2	3+
Platinum 0800 (800g)	**200-3641**	**$29.95**	**$26.96**

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A. GemOro AuRACLE™ AGT1 Plus Deluxe Gold and Platinum Tester

Tests all types of gold from 6K to 24K and platinum

A breakthrough in gold testing due to its speed, accuracy and simplicity. Unlike other testers whose accuracy is dependent upon complicated testing instructions, preparation procedures, cleaning or refrigeration, the AuRACLE indicates karat value within a second by simply touching the test object with the pen. Uses a non-toxic non-staining solution, so there are no messy solutions or acids that can stain your clothes or hands or worse, damage the object you're testing.

A

Features:

- Fast and simple one step calibration
- Tests all colors of gold from 6K to 24K as well as platinum
- Durable scratch resistant nickel plated SS testing plate
- Follow easy steps to identify non-gold, gold plate and gold filled
- Immediate test results—no waiting between tests
- Simply touch pen probe to gold and LED indicates karat
- Pen provides approximately 5,000 tests with proper care
- **No messy gel. No staining chemicals. No dangerous acid.**
- Compact and portable, runs on a single 9V alkaline battery or can be plugged in using the universal (110-240V) AC adapter (included)
- One year limited warranty

Set includes:

- Auracle Gold Tester
- Pen Probe
- 9V Alkaline Battery
- File
- AC Adapter
- Rubberized storage/carryingcase for easy portability

Description	Item#	Each
A. AuRACLE Gold and Platinum Tester	**817-1045**	**$399.00**
Replacement Pen Probe	817-1041	29.95
Replacement AC Adapter	817-1042	19.95
14K Calibration Disc	**817-1043**	**24.95**

B. GemOro AuRACLE™ AGT2 Gold and Platinum Tester for Mobile Devices

The revolutionary and best performing AuRACLE gold tester has evolved to a NEW generation in a mobile version that makes it faster, easier and more convenient than ever before. Amazingly you may now use your favorite Apple iOS or Android/Windows device for testing gold and platinum! It will also work directly from a laptop or desktop computer.

IOS Android/Windows Requirements:

APPLE: Requires Apple iOS 5.1 or higher.

ANDROID/WINDOWS: Requires Honeycomb 3.1 or higher, USB host and/or USB On-The-Go ("USB OTG") support. Please check your hardware manufacturer's documentation to ensure support for USB host or USB OTG.

WINDOWS: Requires XP or later operating system

B

Features:

- Works with iPhone, iPad, iPod Touch and Android/Window phones and tablets and Windows based computers..
- Mobile software application included.
- One touch easy pen probe calibration for consistent results.
- Save results instantly for tracking testing history.
- Optional downloadable iTune or Android Apps available for increased productivity and screen customization.
- World's most user-friendly, best performing handheld electronic gold tester with unmatched accuracy – PATENTED with Patents Pending.
- Tests all colors of gold from 6K to 24K.
- Tests platinum.
- Follow easy steps to identify non-gold, gold plate and gold filled as NA.
- Immediate test results – no waiting between tests.
- Simply touch pen probe to gold or platinum and read the test results on one of two dynamic displays: Digital bar graph numerical readout or analog meter readout.
- Pen probe provides approximately 5000 tests with proper care.
- No messy gel. No staining chemicals. No dangerous acid.
- Compact and portable. Easily fits into your pocket. No external power required.
- Includes pen probe, file, mobile device stand, testing plate and easy to follow instructions.
- Variable karat gold options may be used to calibrate this instrument.
- One Year Limited Warranty.

Description	Item#	Each
B. AuRACLE AGT2 Apple Version	**817-1050**	**$149.95**
AuRACLE AGT2 Android Version	**817-1051**	**149.95**
Replacement Pen Probe	817-1041	29.95

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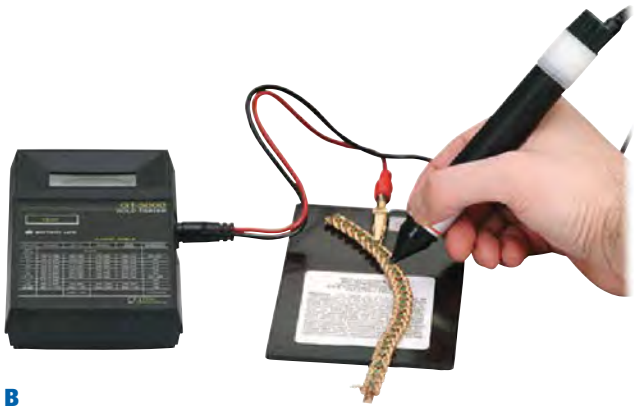
A

A. Gold Testers G-XL-18 and G-XL-24 PRO

These testers are small enough to fit in a pocket or attaché case for on-the-spot testing in the field. The G-XL-18 takes four seconds to test from 6 up to 18K yellow, white, red or green gold. Indicates "Not Gold" if the metal is plated or gold-filled and "Platinum" if pure platinum. The G-XL-24 PRO tests from 6 up to 24K yellow, white, red or green gold.

Each unit initiates an electrochemical reaction with the test piece to measure karat content within a half-karat. Displays a reading only to the nearest karat. Intended for use as a first tool for indicating karat content—does not adequately substitute for fire assaying. Runs on two 9V batteries (included).

	Description	Item#	Each
A.	G-XL-18	**817-1022**	**$496.00**
	G-XL-24 PRO	**817-1026**	**509.00**
	G-XL-18 Gel Refill (off-white)	817-1029	17.55
	G-XL-24 PRO Gel Refill (pink)	817-1027	17.55
	Replacement Sensor Pen, G-XL-18	817-1028	56.00
	Replacement Sensor Pen, G-XL-24 Pro	817-1033	56.00



B

B. Gold Testers GT-3000 and GT-4000

Portable electronic devices for efficient and quick determination of yellow, white, pink and green gold karat values. The GT-3000 tests from 6 up to 18K gold and pure platinum, and the GT-4000 tests from 6 up to 24K gold and pure platinum. Both units can also distinguish solid gold from gold-plated items.

Each unit is easy to use: place drop of conductive gel on test item, touch item with sensor pen, wait just four seconds for reading to appear on the LCD, then match reading to the chart conveniently imprinted on the Gold Tester to find correct karat value. Runs on two 9V batteries (included).

	Description	Item#	Each
B.	GT-3000 (6-18K)	**817-1021**	**$226.00**
	GT-4000 (6-18K, 20K, 22K, 24K)	**817-1030**	**343.00**
	GT-3000 Gel Refill (off-white)	817-1029	17.55
	GT-4000 Gel Refill (pink)	817-1027	17.55
	Replacement Sensor Pen, GT-3000	817-1034	56.00
	Replacement Sensor Pen, GT-4000	817-1035	56.00

C

C. Gold Test Set

Determines the karat content of jewelry. Provides accurate results for 8 to 18K gold (white gold, platinum and palladium should be checked against a similar piece of known quality). Packaged in an attractive hardwood storage box. Requires distilled water and both nitric and hydrochloric testing acids (not included).

Includes:

- Five gold-tipped test needles: 8, 10, 12, 14 and 18K
- Black test stone, 3"L x 1½"W x ½"H
- Two ½-oz. glass acid bottles, each with ground glass stopper and applicator
- Complete instructions

	Description	Item#	Each
C.	Gold Test Set	**813-1405**	**$71.00**
	Test Needles, pkg. of 5	813-1505	56.00
	Black Test Stone	813-1600	12.50
	½-oz. Glass Acid Bottle	813-1410	6.80

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A, B GemOro UltraTester II - Diamond and Moissanite Tester

Provides fast one-touch testing with diamond, moissanite, and white sapphire indication showed by green, blue, and red lights with variable audio tones. Features superior surface mount technology, metal warning tone, illuminator light, auto-sleep and ergonomic design with rubberized finish. Powered by 3 included user-replaceable long life NiMH rechargeable batteries. Comes complete with leatherette pouch and case. The docking station has an intelligent charging control - when batteries are fully charged the software senses and converts to trickle charging mode saving battery power. Uses AC adaptor provided with UltraTester II. Measures 6½"L x 1⅜"W x ¾"D. Backed by lifetime limited replacement manufacturer's warranty.

	Description	Item#	EACH Prices 1-2	3+
A.	GemOro UltraTester II 110~220V	**817-1016**	**$224.95**	**$213.70**
B.	Docking Station	**817-1017**	**24.95**	**23.70**

A

UltraTester II
on Docking Station

B

C. Ceres XL Dual Tester – Diamond and Moissanite Tester

Provides one-touch testing with lights and beeps to distinguish diamond from moissanite and other simulants. Features sophisticated surface mount technology, retractable tip, warning buzzer that sounds when tip is touching metal and not the stone and automatic shutoff for conservation of battery life. Includes rechargeable nicad battery, AC adapter/charger and soft carrying case. Measures 6⅜"L x 1¾"W x ⅝"D. Backed by lifetime limited manufacturer's warranty. Made in USA.

	Description	Item#	Each
C.	Ceres XL Dual Tester, 110V	**817-1014**	**$230.00**
	Ceres XL Dual Tester, 220V	**817-1015**	**305.00**

C

D. DiamondNite Dual Tester – Diamond and Moissanite Tester

Performs two tests in sequence: first test determines if the stone is diamond or simulant; half a second later, second test determines if the stone is diamond or Moissanite. Saves time and money over two separate testers. Runs on 9V battery (included). Comes complete with metal holding plate for loose stones and tip cover. Measures 6⅜"L x 1¾"W x ¾"D. Made in USA.

Description	Item#	EACH Prices 1-2	3+
DiamondNite Dual Tester	**817-1002**	**$228.95**	**$217.50**

D

E. Ceres CZeckpoint® – Diamond Tester

Uses the latest surface chip technology to provide repeatable and accurate readings every time. Durable retractable tip that distinguishes between diamond and all its simulants (except Moissanite). Fast warm up. Recovers instantly for immediate retesting—eliminates waiting between tests. Patented electronics that provide both audible and visual indication of diamond. Automatic shutoff to preserve battery life. Includes a fully integrated metal detector that audibly warns you when the metal setting is touched (without the detector, the tester could be indicating diamond when you're really touching the metal setting). Includes: rechargeable nicad batteries, AC adapter, padded carrying pouch and PVC probe cover. Measures 6¾"L x 1¾"W. Electrical: 115V, 1A, 60Hz. Backed by a two-year limited manufacturer's warranty. Made in USA.

Description	Item#	Each
Ceres CZeckpoint Tester - 110V	**817-1005**	**$115.00**

E

F. Diamond Tech Pro – Diamond Tester

Offers automatic and manual modes (former requires no adjustments, and latter lets you make adjustments for stone size and environmental conditions). Uses adjustable gain to test even the smallest stones. Features clear linear display, audible diamond signal, metal alert, low battery indicator and automatic shutoff. Runs on 9V battery (included). Measures 6½"L x 1⅞"W x ¾"D. Backed by seven-year limited manufacturer's warranty. Made in USA.

Description	Item#	Each
Diamond Tech Pro Tester	**817-1008**	**$105.95**

F

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A

A. GemOro® CZ Color Master Set Pro

The perfect set for professional color grading of your diamonds. Features ten 1.00 carat CZ master stones expertly graded using GIA color standards: E, F, G, H, I, J, K, L, M and N. Exclusive "Color Last" technology. Grades are laser-inscribed on stone tables for easy viewing with a 10X loupe to eliminate confusion and error. Includes clamshell display case with smooth-operating hydro-hinge, white and yellow display rings for comparing stones and carrying pouch. Master stones are backed by limited lifetime manufacturer's warranty against color change. Made in USA.

Description	Item#	Each
CZ Color Master Set	**813-1661**	**$389.00**

B

B. Diamond Sieves

A total of 22 chrome-plated brass plates, 50mm in diameter. Use for sorting diamonds, pearls and more. Packaged in leather case.

Description	Item#	Each
Diamond Sieves	**816-1300**	**$65.00**

C

C. Stone Shovel

Nickel-plated shovel with handle for scooping and handling stones. Measures approx. 3"L x 1¾"W.

Description	Item#	Each
Stone Shovel	**816-1200**	**$3.35**

D

D. Jewelry Appraisal Form

Official insurance appraisal form for jewelers and appraisers. Three-part, carbonless format. Sold in packages of 50. Ship. wt: 1 lb.

Size	Item#	Pkg. of 50
8½" x 11"	**810-0430**	**$19.90**

E

E. High-Quality Diamond Parcel Paper

Unmatched in sensitivity and protection for handling loose polished or rough diamonds and precious stones. Made of the finest paper stock, then hand-finished for the right touch. Specially developed with the best blue and white flute colors to enhance D-H color diamonds and reflect them in the best light. Measures 3¼" x 1¾". Sold in packages of 25 sheets.

Description	Item#	Pkg. of 25
High-Quality Diamond Parcel Paper	**810-0460**	**$10.15**

F

F. Economy Diamond Parcel Paper

White three-ply paper for protecting stones and showing them off at their best. Measures 7" x 5¾". Sold in boxes of 100 sheets.

Description	Item#	Box of 100
Economy Diamond Parcel Paper	**810-0465**	**$13.55**

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A. Micromat Gemstone Gauge and Weight Estimator

A precision dial caliper used by jewelers, appraisers and cutters the world over to accurately estimate weights of gemstones and pearls. Takes both inside and outside measurements in millimeters. Features specially designed jaws that fit inside stone settings and prongs for precise measuring without requiring you to remove stones first. Also has ring size scale for reading USA sizes of rings placed in jaws. Includes attractive leatherette-covered metal case with thorough 42-page booklet of tables and complete instructions fully translated in three languages: English, French and German.

Description	Item#	Each
Gemstone Gauge	**813-1910**	**$230.95**

A

B. Sciencetech Digital Gemstone Gauge

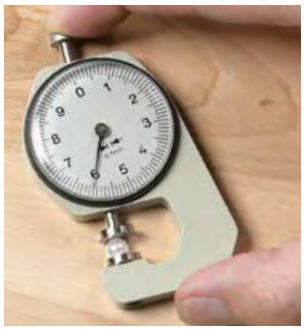
This digital gauge takes fast, accurate gemstone measurements in inches or millimeters. Includes high setting attachment and zeroing function for fast and easy calibration of stones in melee settings. Comes with protective case. Measuring range: 0.875"/22.25mm.

Specifications:

Resolution: 0.0005"/0.01mm. Accuracy: ±0.0025"/0.05mm.

Description	Item#	Each
Digital Gemstone Gauge	**813-1911**	**$153.00**

B



C

C. Pearl and Stone Gauge – Works great with baguettes!

A precision-engineered gauge with measuring faces ground level with the back to stay flat for accurate measuring of pearls and stones such as baguettes. Securely holds stones without slipping. Uses rotating dial gauge for fast, easy zeroing. Has enamel-coated metal body for durability. Capacity: 10mm. Graduations: 0.1mm. Measures 3⅛" long. Made in Germany.

Description	Item#	Each
Pearl and Stone Gauge	**813-0650**	**$80.95**

D. Mini Digital Thickness Gauge – Max 1"/25mm

Compact gauge (just 3½" overall) is small enough to take everywhere. Features large LCD screen for good readability. Has conversion and zero functions. Takes both inside and outside measurements in inches and millimeters. Uses setscrew to prevent jaws from moving. Runs for one year on a 1.5V silver oxide watch battery (included). Comes with storage case.

Specifications:

Resolution 0.0005"/0.01mm Accuracy ±0.001"/0.01mm

Description	Item#	Each
Mini Digital Thickness Gauge	**825-1620**	**$59.95**

D

E. The Meleemeeter® Microgauge Template System

Ideal for gauging inaccessible mounted diamond melee. Eliminates measuring and computing of weights. Consists of 10 transparent polyester gauges with 590 melee shapes and sizes placed around the edges for maximum accessibility. Includes extensive profiles of straight and tapered baguettes, each identified by dimensions and carat weight. Use under a microscope in same position as stone under inspection. Comes in solid brass card case.

Description	Item#	Each
The Meleemeeter	**813-1350**	**$49.25**

E

F. Stone Table Gauge – Millimeter

A standard millimeter scale divided into 0.05mm increments for measuring tables of stones inaccessible by micrometer or caliper. Uses a very fast and accurate scanning method to take measurements without computing between marks, as with a conventional scale. Measures from 1.00 to 10.00mm with accuracy of ±0.01mm. Must be used with 15X or higher magnification. Comes in a protective plastic case. Measures 3½"L x 2"W.

Description	Item#	Each
Stone Table Gauge	**813-1360**	**$6.55**

F

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A

B

A, B Brown & Sharpe Wire and Sheet Gauges

For measuring wire and sheet sizes. Gauge measures B&S sizes 0-36 marked on one side, sizes .325"-.005" on other. Our pocket gauge comes with a protective leather sheath and measures gauge sizes from 8 to 34 (each size also shown in mm and inches).

Description	Item#	Each
A. Wire and Sheet Gauge	**813-0700**	**$22.35**
B. Pocket Wire and Sheet Gauge	**813-0702**	**11.95**

C

C. K&B Stone Gauge

A handy tempered aluminum pocket gauge for measuring loose stones and settings. Marked in carats and millimeters. Features revolving stone size gauge. Has birthstone chart on reverse. Capacity: 1/32 to 4 carats (2 to 11mm). Measures 3 5/8"L x 2 5/8"W.

Description	Item#	Each
K&B Stone Gauge	**813-1000**	**$7.95**

D

D. Baker Diamond Gauge

An aluminum gauge with holes for measuring stones and round extensions for measuring mountings. Marked in carats on one side and corresponding millimeters on the other. Capacity: 1/32 to 4 carats (2 to 11mm). Measures 4" in diameter.

Description	Item#	Each
Baker Diamond Gauge	**813-0600**	**$13.60**

E

E. Diamond Gauge

An aluminum gauge for measuring round and baguette stones. Capacity: 1 point to 2 carats. Measures 1 1/2" in diameter when closed.

Description	Item#	Each
Diamond Gauge	**813-1120**	**$5.85**

F

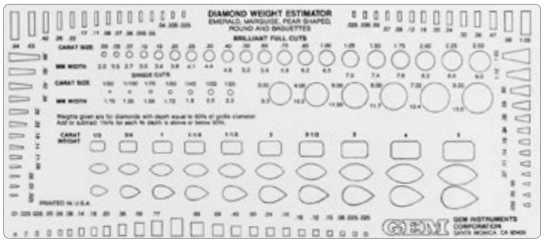
G

F, G MeasureMate® Fact Card Set and Gauge

Fact card set consists of ten durable plastic double-sided fact cards packaged in a flip-through wallet. Provides information on gemstone grades, shapes, sizes and weights; setting methods; ring, wire gauge and watch battery sizes; hardness scales; metal properties; and more. Fits in shirt pocket for easy access.

Plastic gauge is ideal for measuring diamonds, ring sizes and more. Measures up to 2" or 50mm. Includes table for converting millimeter sizes to rough carat weights and scale for approximating ring sizes. Comes complete with neck strap and fact card that details relationships between diamond shapes, sizes and weights.

	Description	Item#	Each
F.	MeasureMate Fact Card Set	**813-0561**	**$9.95**
G.	MeasureMate Gauge	**813-0560**	**4.95**



H

H. Gem Weight Estimator

Perfect for determining sizes of both loose and mounted stones when other methods fail. Just place estimator on your stone pad, then place selected diamond on the appropriate outline, and you will instantly be able to tell the approximate weight of the stone. Works well for emerald, marquise, pear, round and baguette stones. Made of flexible, transparent plastic. Measures 9"L x 4"W.

Description	Item#	Each
Gem Weight Estimator	**813-1919**	**$5.95**

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A-D TolTec® Microimage Measurer

The TolTec Microimage Measurer verifies the accuracy of mold measurements during the mold making process while the mold is still in place on the EDM or milling machine, helping boost your productivity. Eliminates the time-consuming, error-prone routine of having to remove, measure and relocate the mold, allowing you to check tolerances on the fly with ease. Minimizes costly mistakes often caused by inexact mold repositioning. Accurate measurements are taken and recorded from the machine's CNC controller. See below for available systems and components.

Features:

- Precise, in-process measurement verification without removing mold from host machine for reduced downtime and increased productivity
- Quick, hassle-free changeover from tooling head to imaging head
- In-process X-Y tolerance verification
- High-resolution video inspection with 15" LCD monitor and laser point finder
- Working tolerances equal to those of host machines
- Compatibility with a variety of different EDM and milling machines
- Choice of 30X, 55X and 250X lenses and 3R, EROWA and NB fixtures corresponding to your EDM or CNC machine.

TolTec Microimage Measurer used with wire cutter **A**

TolTec Lens using laser point finder

	System with Monitor	Lens + Fixture	Item#	Each
A.	TTC30LS-3R	30X + 3R	**511-1000**	**$6,565.00**
	TTC55LS-3R	55X + 3R	**511-1005**	**6,885.00**
	TTC250LS-3R	250X + 3R	**511-1010**	**8,095.00**
	TTC30LS-ER	30X + EROWA	**511-1015**	**6,885.00**
	TTC55LS-ER	55X + EROWA	**511-1020**	**6,885.00**
	TTC250LS-ER	250X + EROWA	**511-1025**	**8,095.00**
	TTC30LS-NB 12mm	30X + NB 12mm	**511-1030**	**6,885.00**
	TTC55LS-NB 12mm	55X + NB 12mm	**511-1045**	**6,885.00**
	TTC250LS-NB 12mm	250X + NB 12mm	**511-1060**	**8,095.00**
	TTC30LS-NB 16mm	30X + NB 16mm	**511-1035**	**6,885.00**
	TTC55LS-NB 16mm	55X + NB 16mm	**511-1050**	**6,885.00**
	TTC250LS-NB 16mm	250X + NB 16mm	**511-1065**	**8,095.00**
	TTC30LS-NB 20mm	30X + NB 20mm	**511-1040**	**6,885.00**
	TTC55LS-NB 20mm	55X + NB 20mm	**511-1055**	**6,885.00**
	TTC250LS-NB 20mm	250X + NB 20mm	**511-1070**	**8,095.00**

	Lens + Fixture Only	Item#	Each
B.	30X + 3R	**511-1002**	**$4,395.00**
	55X + 3R	**511-1007**	**4,395.00**
	250X + 3R	**511-1012**	**5,585.00**
C.	30X + EROWA	**511-1017**	**4,395.00**
	55X + EROWA	**511-1022**	**4,395.00**
	250X + EROWA	**511-1027**	**5,585.00**
D.	30X + NB 12mm	**511-1032**	**4,395.00**
	55X + NB 12mm	**511-1047**	**4,395.00**
	250X + NB 12mm	**511-1062**	**5,585.00**
	30X + NB 16mm	**511-1037**	**4,395.00**
	55X + NB 16mm	**511-1052**	**4,395.00**
	250X + NB 16mm	**511-1067**	**5,585.00**
	30X + NB 20mm	**511-1042**	**4,395.00**
	55X + NB 20mm	**511-1057**	**4,395.00**
	250X + NB 20mm	**511-1072**	**5,585.00**
	Magnetic Fixture in place of 3R/EROWA/NB	**511-1077**	**415.00**

Monitor Only	Item#	Each
15" LCD	**511-1075**	**$2,835.00**

B **C** **D**

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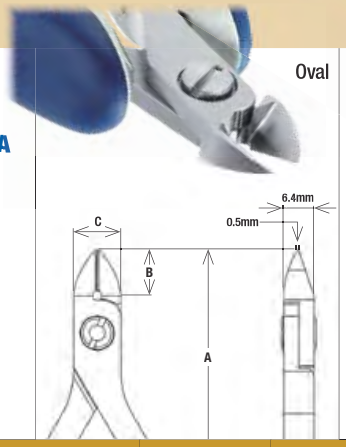
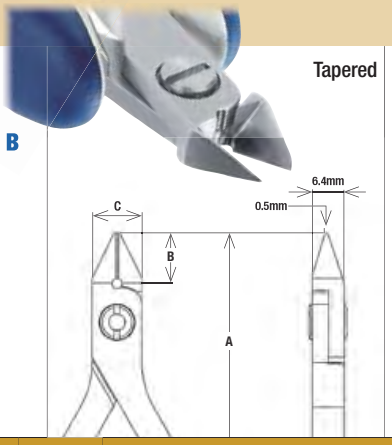
Gesswein® Supra® Swiss Cutters – Ergonomic Handles

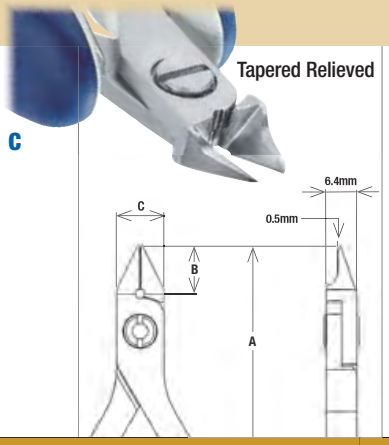
Premium Ergonomic Handles

Swiss Made Cutters are made of high quality ball bearing steel at 63–65 Rockwell Hardness. All cutters are available as semi-flush, flush or full flush blades. No-scratch/antiglare satin finish.

- 2-component user-friendly **Ergonomic** handles with soft comfortable gripping surface and hard plastic core. Most advanced design for comfort, accuracy and continuous use.
- Dual leaf springs are made of stainless steel.
- Lap joint with a screw to achieve a high level of strength and precision.
- Nut is made of hardened alloy steel to resist high cutting load.
- Screw is fine-pitched for perfect joint adjustment.
- Made in Switzerland.







For soft, medium and hard wires

For very precise cutting of soft and medium wires

For perfect cutting of soft and medium wires

Cutting Edges	Head	A (mm)	B (mm)	C (mm)	Cutting Capacity–Wire mm/AWG				Item #	Each
					Copper wire	Yellow Gold	White Gold	Platinum		
A. Semi-Flush	Oval Sm.	125	10	10	0.2-1.2 / 32-17	0.2-1.1 / 32-17	0.2-1.0 / 32-18	0.2-0.9 / 32-19	**182-5140**	**$45.50**
Flush	Oval Sm.	125	10	10	0.1-1.2 / 38-17	0.1-1.1 / 38-17	0.1-1.0 / 38-18	0.1-0.9 / 38-19	**182-5141**	**45.50**
Full-Flush	Oval Sm.	125	10	10	0.1-1.0 / 38-18	0.1-0.9 / 38-19	0.1-0.8 / 38-20	0.1-0.7 / 38-21	**182-5142**	**47.50**
Semi-Flush	Oval Lrg.	125	12.5	12.5	0.3-1.6 / 29-14	0.3-1.5 / 29-15	0.3-1.4 / 29-15	0.3-1.3 / 29-16	**182-5150**	**46.50**
Flush	Oval Lrg.	125	12.5	12.5	0.2-1.6 / 32-14	0.2-1.5 / 32-15	0.2-1.4 / 32-15	0.2-1.3 / 32-16	**182-5151**	**48.50**
Full-Flush	Oval Lrg.	125	12.5	12.5	0.2-1.2 / 32-17	0.2-1.1 / 32-17	0.2-1.0 / 32-18	0.2-0.9 / 32-19	**182-5152**	**48.50**
Semi-Flush	Oval X Lrg.	130	14	16	0.4-2.0 / 26-12	0.3-1.7 / 29-13	0.3-1.6 / 29-14	0.3-1.4 / 29-15	**182-5160**	**48.50**
Flush	Oval X Lrg.	130	14	16	0.3-1.7 / 29-13	0.3-1.6 / 29-14	0.3-1.5 / 29-15	0.3-1.3 / 29-16	**182-5161**	**49.50**
Full-Flush	Oval X Lrg.	130	14	16	0.3-1.6 / 29-14	0.3-1.3 / 29-13	0.3-1.2 / 29-17	0.3-1.1 / 29-17	**182-5162**	**50.50**
B. Semi-Flush	Tapered Sm.	123	10	10	0.2-1.2 / 32-17	0.2-1.1 / 32-17	0.2-1.0 / 32-18	0.2-0.9 / 32-19	**182-5340**	**45.50**
Flush	Tapered Sm.	123	10	10	0.1-1.2 / 38-17	0.1-1.1 / 38-17	0.1-1.0 / 38-18	0.1-0.9 / 38-19	**182-5341**	**46.50**
Full-Flush	Tapered Sm.	123	10	10	0.1-1.0 / 38-18	0.1-0.9 / 38-19	0.1-0.8 / 38-20	0.1-0.7 / 38-21	**182-5342**	**47.50**
Full-Flush	Tapered Lrg.	125	12.5	12.5	0.2-1.2 / 32-17	0.2-1.1 / 32-17	0.2-1.0 / 32-18	0.2-0.9 / 32-19	**182-5352**	**48.50**
C. Semi-Flush	Tapered Relieved Sm.	125	10	10	0.2-1.2 / 32-17	0.2-1.1 / 32-17	0.2-1.0 / 32-18	0.2-0.9 / 32-19	**182-5540**	**48.50**
Flush	Tapered Relieved Sm.	125	10	10	0.1-1.2 / 38-17	0.1-1.1 / 38-17	0.1-1.0 / 38-18	0.1-0.9 / 38-19	**182-5541**	**49.50**
Full-Flush	Tapered Relieved Sm.	125	10	10	0.1-0.8 / 38-20	0.1-0.9 / 38-19	0.1-0.8 / 38-20	0.1-0.7 / 38-21	**182-5542**	**50.50**

D

D. Tungsten Carbide – The Ultimate Cutter – Full-Flush

For stents, catheters, braided mesh, guide wires. This new Full-Flush cutter measures 125 mm in length, jaws 7.7mm long x 12.5mm thick with premium ergonomic handles. A superbly manufactured instrument 81 HRC. Cuts up to 2.5mm copper wire.

Description	Item#	Each
Tungsten Carbide – The Ultimate Cutter	**182-5360**	**$176.00**

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Gesswein® Supra® Swiss Pliers – Ergonomic Handles

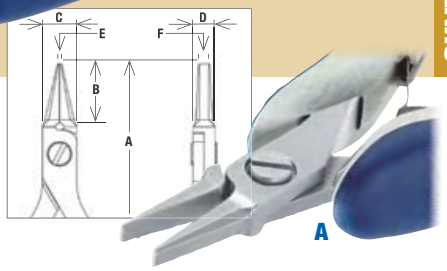
Made of high quality ball bearing steel, hardened to 45 Rockwell feature a superior no-scratch/ antiglare satin finish. Lap joint with fine pitched screw for perfect joint adjustment and symmetry, and stainless steel dual leaf springs.

- 2-component ESD safe user friendly **Ergonomic** Handles have a soft comfortable gripping surface – the latest advancement for ease of use.
- Rounded handle for more comfort, correct shape definition for perfect thumb contact and control.
- Easier pickup from table due to biscuit form.
- Made in Switzerland.

A. Gesswein® Supra Swiss Pliers – Flat nose

Flat nose pliers feature a very fine tip. smooth jaws and inner edges. 5⅛" long.

Jaw Shape	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Item#	Each
Smooth	130	20	10	6.4	7.2	4.0	**182-6011**	**$40.50**

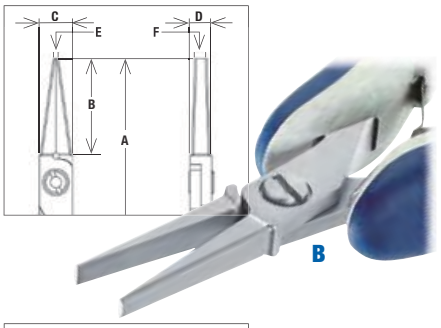


A

B. Gesswein® Supra Swiss Pliers – Flat nose long

Flat nose pliers feature a very fine tip. smooth jaws and inner edges. 5½" long.

Jaw Shape	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Item#	Each
Smooth	140	30	10	6.4	7.5	4.0	**182-6013**	**$42.50**

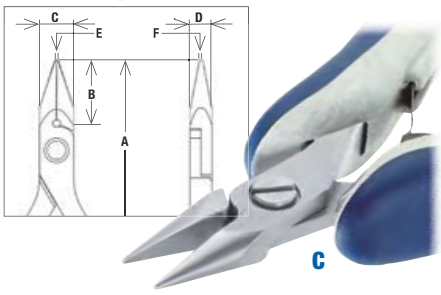


B

C. Gesswein® Supra Swiss Pliers – Chain nose

Commonly used in electronic assembly and rework, as well as in fine jewelry and beading work. Have flat-faced inner jaws. 5⅛" long.

Jaw Shape	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Item#	Each
Smooth	130	20	10	6.4	7.2	0.5	**182-6021**	**$42.50**

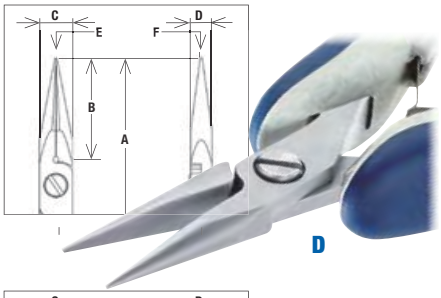


C

D. Gesswein® Supra Swiss Pliers – Chain nose long

Commonly used in electronic assembly and rework, as well as in fine jewelry and beading work. Have flat-faced inner jaws. 5½" long.

Jaw Shape	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Item#	Each
Smooth	140	20	10	6.4	7.2	0.5	**182-6023**	**$43.50**

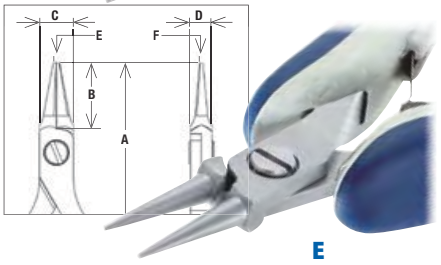


D

E. Gesswein® Supra Swiss Pliers – Round nose

Round nose pliers have jaws formed by two long cones. A round nose pliers is generally used both to clamp and to form loops on leads or wire. The long jaws also provide increased access. 5⅛" long.

Jaw Shape	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Item#	Each
Smooth	130	20	10	6.4	2.0	0.5	**182-6041**	**$43.50**



E

F, G Gesswein® Supra Swiss Cutter and Plier Kits

Money saving kits in a convenient roll up pouch. Cutter kit consists of 4 very useful styles #5142, 5160, 5341 and 5542. Plier kit consists of 1 each of all 5 of the above pliers.

	Description	Item#	Each
F.	Cutter Kit	**182-5163**	**$185.50**
G.	Plier Kit	**182-6042**	**205.00**

F G

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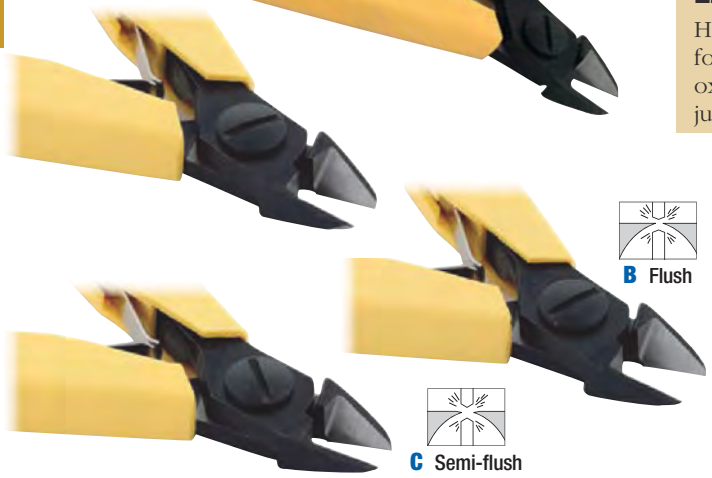
Lindstrom® Pliers and Nippers - Recognized Worldwide

Unsurpassed in quality materials, design and performance. Made of high-quality steel A grade, they rank among the highest quality of any cutters made with cutting edge hardness of 63-65 Rockwell. The Lindstrom 80-Series remains the most popular choice for the traditional user and offers unsurpassed cutting capacity covering a wide range of wire dimensions and types. RXPS Cutters are Lindstrom's very best cutters exemplifying state-of-the-art hand tool design, function and performance. RXPS Cutters are exceptionally well-suited for jewelers cutting both hard and soft metals including sterling, gold, brass, stainless steel and platinum, and provide medical professionals with accurate, repeatable, and very flush cuts.



Lindstrom® Diagonal Nippers

High-quality nippers for jewelry, electronics and other industries. Perfect for accessing narrow, confined spaces. Feature precision-ground, black oxidized cutting edges for exceptional cutting accuracy and durability, adjustable screw lap joints, return springs and yellow plastic grips. Imported.

A. Ultra-Flush Diagonal Nipper – #8142

Cut 0.1-1.0mm copper wire. Measures 4 1/3" long.

Description	Jaw Size (L x W)	Item#	Each
Ultra-Flush	3/8" x 3/8"	182-8142	$54.50

B. Flush Diagonal Nipper – #8141

Cut 0.1-1.25mm copper wire. Measures 4 1/3" long.

Description	Jaw Size (L x W)	Item#	Each
Flush	3/8" x 3/8"	182-8141	$47.50

C. Semi-Flush Small Diagonal Nipper – #8140

Cut 0.2-1.25mm copper or 0.1-0.6mm iron wire. Measures 4 1/3" long.

Description	Jaw Size (L x W)	Item#	Each
Semi-Flush Small	3/8" x 3/8"	182-8140	$47.50

D. Semi-Flush Medium Diagonal Nipper – #8150

Cut 0.3-1.6mm copper, 0.2-0.8mm iron or 0.1-0.4mm piano wire. Measures 4 7/16" long.

Description	Jaw Size (L x W)	Item#	Each
Semi-Flush Medium	1/2" x 1/2"	182-8150	$48.50

E. Semi-Flush Large Diagonal Nipper – #8160

Cut 0.4-2.0mm copper, 0.3-1.2mm iron or 0.1-0.4mm piano wire. Measures 5" long.

Description	Jaw Size (L x W)	Item#	Each
Semi-Flush Large	5/8" x 5/8"	182-8160	$49.50

F. Lindstrom® Diagonal Nipper Kit

Money Saving Kit of three different Lindstrom Nippers. Includes styles #8142, #8140 and #8150.

Description	Item#	Each
3-piece Kit	182-8170	$141.30

Lindstrom® RXPS Cutters

Lindstrom RXPS cutters incorporate a special bevel and edge treatment that provides excellent hard wire cutting performance. RXPS cutters are often used on platinum, nitinol, jewelry wire and proprietary medical wires used in stents and catheters. RXPS cutters feature adjustable screw lap joints, can be resharpened and offer years of use in hard wire applications. Imported.

G. Lindstrom® RXPS Platinum Flush Cutter

Cut 0.1-2.0mm copper wire. Less flush than Mico-Bevel. 5 1/2" long.

Description	Jaw Length	Item#	Each
8141 Flush	0.41"	182-8143	$78.00

H. Lindstrom® RXPS Platinum Micro-Bevel Cutter

Cut 0.1-2.0mm copper wire. Measures 5 1/2" long.

Description	Jaw Length	Item#	Each
8150 Micro-Bevel	0.51"	182-8155	$76.80

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Lindstrom® Lightweight Pliers and Nippers

A wide selection of the finest lightweight pliers and nippers for general electronics work, jewelry making, repair and fine mechanical work. Adjustable precision screw joint minimizes friction and maximizes jaw alignment. Feature smooth, precision-ground jaws for gripping without marring, spring-loaded handles and white plastic grips. Imported.

A. Long Chain Nose Pliers – #7890

Have screw lap joint and precision-ground jaws. Measures 5¼" long.

Description	Jaw Size (L x W)	Item#	Each
Long Chain Nose	1¼" x 1/32"*	182-7890	$45.50

Tapers to this width.

B. Chain Nose Pliers – #7893

Have screw lap joint and precision-ground jaws. Measures 4¾" long.

Description	Jaw Size (L x W)	Item#	Each
Chain Nose	¾" x 1/32"*	182-7893	$44.50

Tapers to this width.

C. Flat Nose Pliers – #7490

Have screw lap joint and precision-ground jaws. Measures 4¾" long.

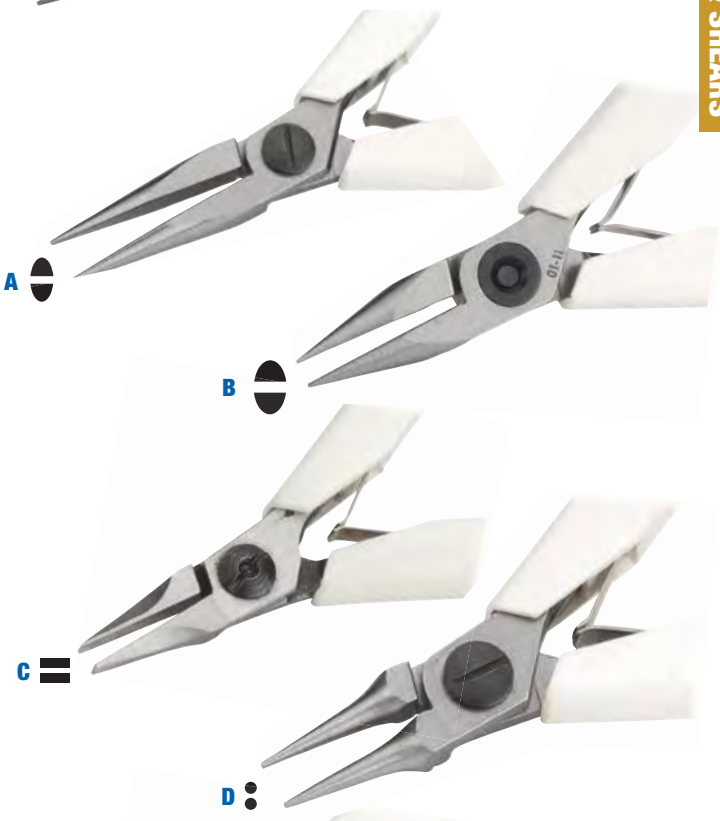
Description	Jaw Size (L x W)	Item#	Each
Flat Nose	¾" x ⅛"	182-7490	$43.50

D. Round Nose Pliers – #7590

Have box joint and perfectly round precision-ground jaws. Ideal for making loops, bends and coils. Taper to 1/32". Measures 4¾" long.

Description	Jaw Size (L x W)	Item#	Each
Round Nose	¾" x 1/32"*	182-7590	$42.50

Tapers to this width.



E. Diagonal Nipper – #7191

Flush-cutting nipper with screw lap joint and tapered, relieved head for reaching tight areas. Cuts 28-18 AWG, .014"-.039" or 0.35-1.0mm diameter copper or annealed 14K gold wire. Measures 4⅓" long.

Description	Jaw Size (L x W)	Item#	Each
Diagonal Flush	⅜" x ⅜"	182-7191	$49.50

F. Oblique Nipper – #7291

Flush-cutting nipper with screw lap joint and 11°-angle head with one rounded and one pointed end. Cuts 28-18 AWG, .014"-.040" or 0.35-1.0mm diameter copper or annealed 14K gold wire. Measures 4¼" long.

Description	Jaw Size (L x W)	Item#	Each
Oblique Flush	9/16" x ⅓"	182-7291	$56.50

G. Relieved Oblique Nipper – #7293

Flush-cutting nipper with screw lap joint and 11°-angle relieved head for reaching tight areas. Cuts 28-18 AWG, .014"-.040" or 0.35-1.0mm diameter copper or annealed 14K gold wire. Measures 4¼" long.

Description	Jaw Size (L x W)	Item#	Each
Relieved Oblique Flush	⅜" x ⅓"	182-7293	$59.50

H. 3-Piece Set

Money saving kit of our most popular Lindstrom® Lightweight Pliers and Nippers. Includes the style #7893 chain nose plier, #7490 flat plier and #7191 diagonal nippers.

Description	Item#	Each
3-Piece Set	182-7895	$123.60

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

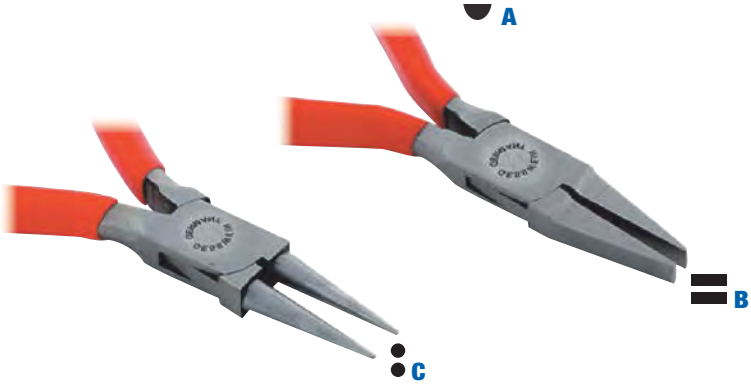
Standard-Weight Pliers and Nippers

Feature box joints that minimize undesirable joint movement for precise jaw alignment. Pliers have smooth jaws for holding work without marring. Plastic non-slip grips. Nippers cut up to 1mm diameter copper or annealed 14K gold wire. Measure 5¼" long. Made in Germany.

A. Chain Nose Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Chain Nose	⅞" x 1/16" *	**180-1221**	**$21.65**	**$19.49**	**$17.32**

**Tapers to this width.*



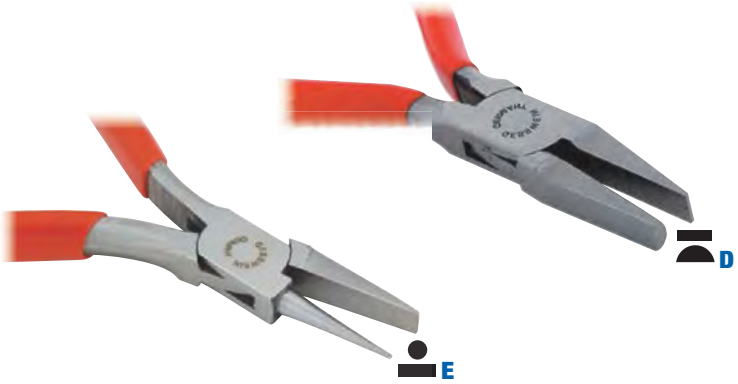
B. Flat Nose Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Flat Nose	1" x 3/16"	**180-1220**	**$22.65**	**$20.39**	**$18.12**

C. Round Nose Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Round Nose	⅞" x 1/16" *	**180-1222**	**$22.65**	**$20.39**	**$18.12**

**Tapers to this width.*



D. Half Round/Flat Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Half Round/Flat	⅞" x 5/16" *	**180-1223**	**$26.50**	**$23.85**	**$21.20**

E. Round/Flat Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Round/Flat	1" x 1/16"	**180-1230**	**$26.70**	**$25.37**	**$22.43**

F. Rosary Pliers/Nipper

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Rosary	1" x 1/16" *	**180-0217**	**$28.95**	**$27.50**	**$24.32**

**Tapers to this width.*

G. Semi-Flush Diagonal Nipper

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Semi-Flush Diagonal	¾" x 9/16" *	**180-1250**	**$30.25**	**$28.74**	**$25.41**

**Tapers to this width.*

H. Standard-Weight Box-Joint Plier Set

Includes four of our most popular Standard-Weight Box-Joint Pliers: chain, flat, round and half-round/flat pliers. Made in Germany.

Description	Item#	Each
4-Piece Set	**180-1225**	**$84.00**

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Slimline Box-Joint Pliers and Nippers

Feature spring-loaded handles with black plastic nonslip grips. Pliers have smooth jaws for holding work without marring. Nippers cut up to 1.5mm diameter copper or annealed 14K gold wire. Measure 4½" long. Made in Germany.

A. Chain Nose Pliers

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Chain Nose	7/8" x 1/16" *	180-1722	$20.50	$19.48	$18.45

*Tapers to this width.

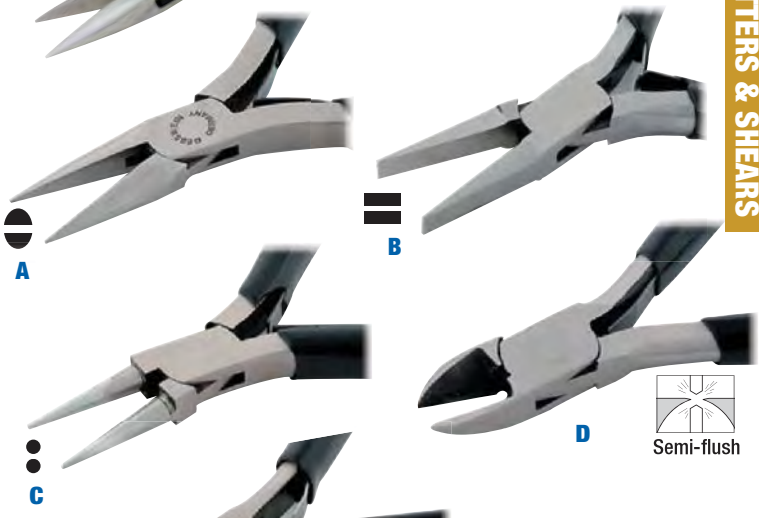
B. Flat Nose Pliers

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Flat Nose	3/4" x 1/8"	180-1720	$22.00	$20.90	$19.80

C. Round Nose Pliers

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Round Nose	7/8" x 1/16" *	180-1721	$20.50	$19.48	$18.45

*Tapers to this width.



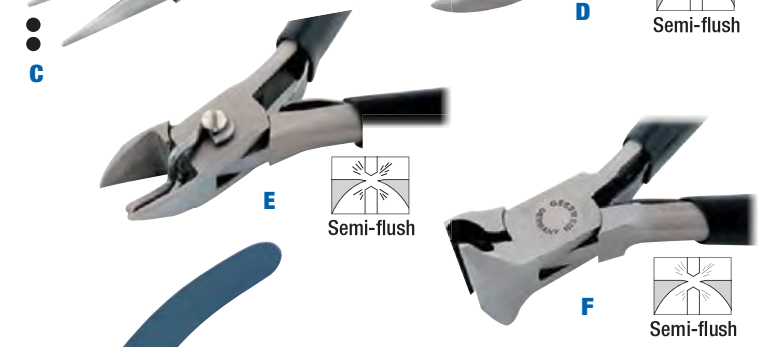
D. Diagonal Nipper

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Diagonal	1/2"	180-1726	$26.75	$25.41	$24.08

E. Diagonal Nipper w/ Trap

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Diagonal w/ Trap **	1/2"	180-1255	$27.00	$25.65	$22.68

**Traps and holds wire end so it will not fly.



F. Oblique Nipper

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Oblique	5/8"	180-1729	$28.75	$27.31	$25.88

Foam-Grip Stainless Steel Pliers and Nipper

Economical stainless steel box-joint pliers and nipper. Feature spring-loaded handles with extra-thick foam nonslip grips. Measure 4½" long. Imported.

G. Chain Nose Pliers

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Chain Nose	7/8" x 1/16" *	180-0330	$16.40	$14.76	$13.67

*Tapers to this width.

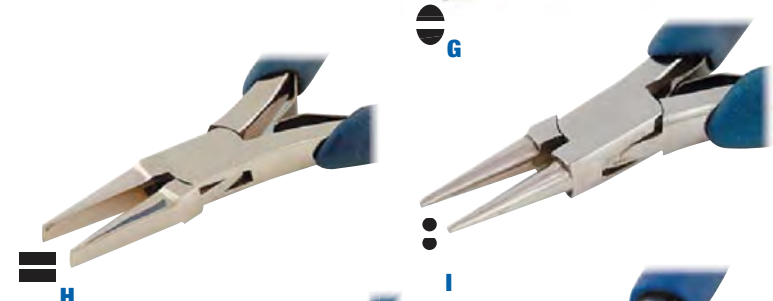
H. Flat Nose Pliers

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Flat Nose	7/8" x 9/32"	180-0331	$16.40	$14.76	$13.67

I. Round Nose Pliers

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Round Nose	3/4" x 1/16" *	180-0332	$16.40	$14.76	$13.67

*Tapers to this width.

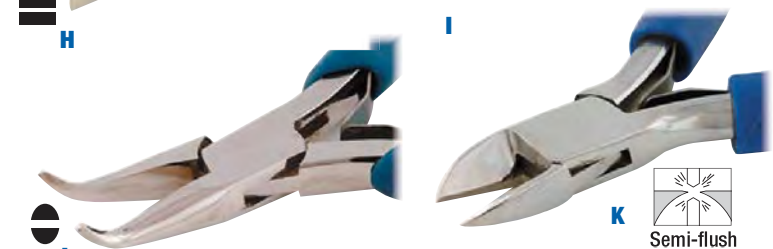


J. Bent Chain Nose Pliers

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Bent Chain Nose	7/8" x 1/16"	180-0336	$16.40	$14.76	$13.67

K. Diagonal Nipper

Description	Jaw Size (L x W)	Item#	1-2	3-9	10+
Diagonal	1/2"	180-0333	$16.90	$15.21	$14.08



L. Foam-Grip Stainless Steel Plier and Nipper Set

Includes all Foam-Grip Stainless Steel Pliers and Nipper listed above except bent chain pliers.

Description	Item#	Each
4-Piece Set	180-0335	$59.50

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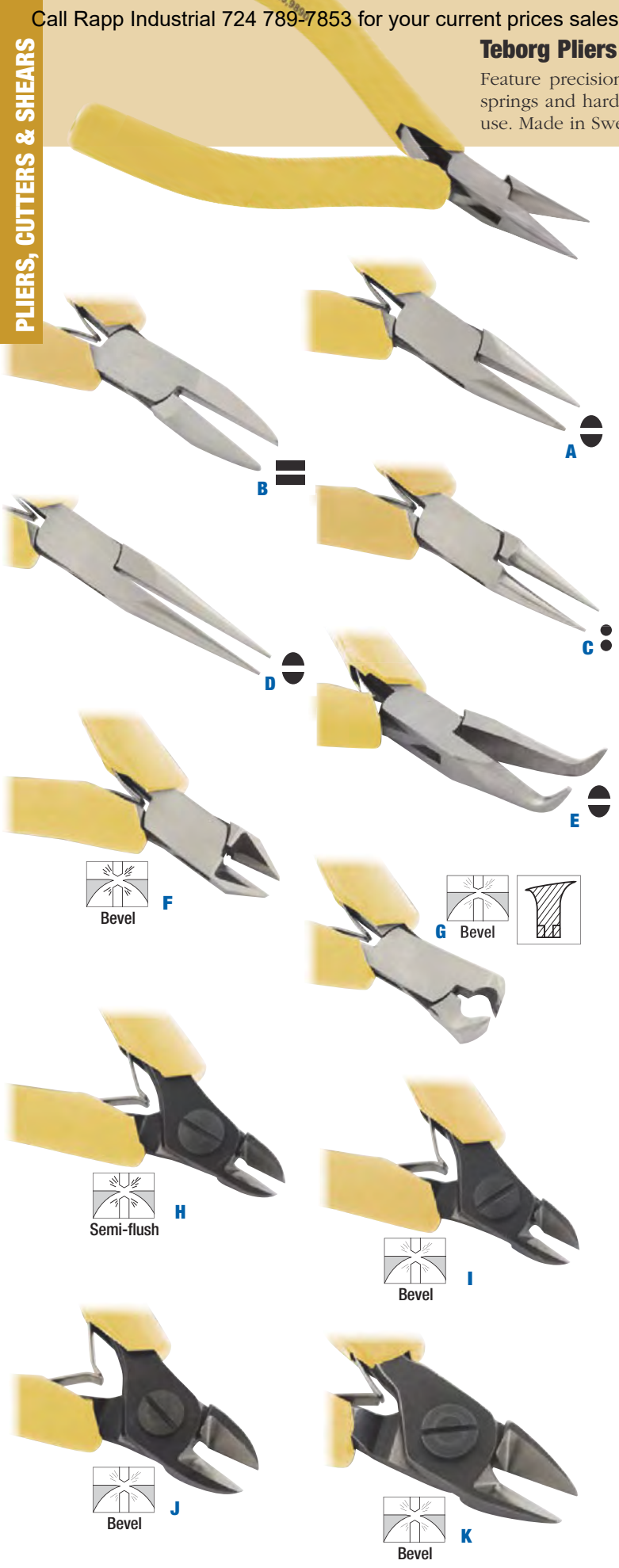
Teborg Pliers and Nippers

Feature precision-ground smooth jaws, box or adjustable screw lap joints, dual leaf springs and hardened, treated handles with comfort grips. Will not break with proper use. Made in Sweden.



A. Chain Nose Pliers - #9893

Measure 4¾" long.

Description	Jaw Size (L x W)	Item#	Each
Chain Nose	20 x 9mm	**182-9893**	**$33.95**

B. Flat Nose Pliers - #9490

Measure 4¾" long.

Description	Jaw Size (L x W)	Item#	Each
Chain Nose	20 x 9mm	**182-9490**	**$32.25**

C. Round Nose Pliers - #9590

Measure 4¾" long.

Description	Jaw Size (L x W)	Item#	Each
Round Nose	20 x 9mm	**182-9590**	**$33.95**

D. Long Chain Nose Pliers - #9890

Measure 5¼" long.

Description	Jaw Size (L x W)	Item#	Each
Long Chain Nose	32 x 9mm	**182-9890**	**$33.95**

E. Bent Chain Nose Pliers - #9892

Measure 5" long with 60° bend at tips.

Description	Jaw Size (L x W)	Item#	Each
Bent Chain	29 x 9mm	**182-9892**	**$33.95**

F. Bevel Diagonal Nipper - #9190

Cuts 0.35–1.25mm soft wire. Measures 4⅜" long.

Description	Jaw Size (L x W)	Item#	Each
Bevel Diagonal	9.5 x 9mm	**182-9190**	**$38.20**

G. Bevel Oblique Nipper - #9291

Cuts 0.35–1.0mm soft wire. Measures 4⅜" long.

Description	Jaw Size (L x W)	Item#	Each
Bevel Oblique	8 x 9mm	**182-9291**	**$43.10**

H. Semi-Flush Small Nipper - #9141

Cuts 0.1–1.25mm soft wire. Measures 4⅜" long.

Description	Jaw Size (L x W)	Item#	Each
Semi-Flush Small	9.5 x 9mm	**182-9141**	**$36.50**

I. Bevel Small Nipper - #9140

Cuts 0.2–1.25mm soft wire. Measures 4⅜" long.

Description	Jaw Size (L x W)	Item#	Each
Bevel Small	9.5 x 8.5mm	**182-9140**	**$36.50**

J. Bevel Medium Nipper - #9150

Cuts 0.3–1.6mm soft wire. Measures 4½" long.

Description	Jaw Size (L x W)	Item#	Each
Bevel Medium	12.5 x 12mm	**182-9150**	**$36.50**

K. Bevel Large Nipper - #9160

Cuts 0.4–2.0mm soft wire. Measures 5¼" long.

Description	Jaw Size (L x W)	Item#	Each
Bevel Large	16 x 15mm	**182-9160**	**$38.20**

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Comfort-Grip Stainless Steel Pliers and Nippers

These economical standard-weight pliers and nippers feature box joints for stability, double leaf springs for smooth action and molded plastic handles for secure grip. Measure 5" long. Made in India.

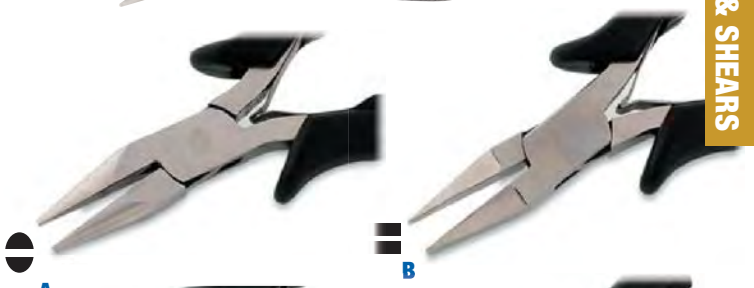
A. Chain Nose Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Chain Nose	7/8" x 1/16" *	180-0366	$5.95	$5.36	$4.96

Tapers to this width.

B. Flat Nose Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Flat Nose	7/8" x 5/32"	180-0367	$5.95	$5.36	$4.96



C. Round Nose Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Round Nose	7/8" x 1/32" *	180-0368	$5.95	$5.36	$4.96

Tapers to this width.

D. Diagonal Nipper

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Diagonal	1/2"	180-0369	$6.95	$6.26	$5.79

E. Comfort-Grip Stainless Steel Plier and Nipper Set

Includes all four Comfort-Grip Pliers and Nipper listed above.

Description	Item#	EACH Prices 1-2	3-9	10+
4-Piece Set	180-0370	$21.95	$19.76	$18.29

ValueLine Pliers and Nippers

These inexpensive pliers and nippers feature box joints for stability, double leaf springs for smooth action, green PVC grips and brush finishes. Measures 4½" long. Made in Pakistan.

F. Chain Nose Pliers

Description	Jaw Size (L x W)	Item#	Each
Chain Nose	7/8" x 1/32" *	180-0340	$5.45

Tapers to this width.

G. Flat Nose Pliers

Description	Jaw Size (L x W)	Item#	Each
Flat Nose	7/8" x 1/8"	180-0341	$5.45

H. Round Nose Pliers

Description	Jaw Size (L x W)	Item#	Each
Round Nose	7/8" x 1/32" *	180-0342	$5.45

Tapers to this width.

I. Bent Chain Nose Pliers

Description	Jaw Size (L x W)	Item#	Each
Bent Chain Nose	3/4" x 1/16"	180-0344	$5.90

J. Diagonal Nipper

Description	Jaw Size (L x W)	Item#	Each
Side Cutter	1/2"	180-0343	$6.35

K. ValueLine Plier and Nipper Set

Includes all ValueLine Pliers and Nipper above except bent chain.

Description	Item#	Each
4-Piece Set	180-0345	$20.80

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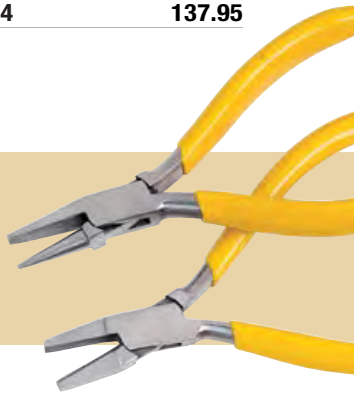
A-D Revere Pliers – Top-quality pliers for discriminating professionals!

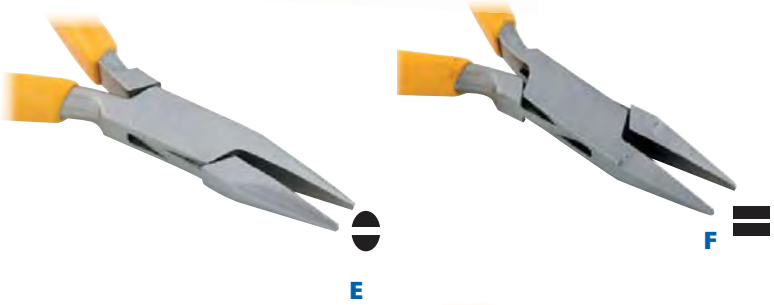
Constructed of the best carbon tool steel available and handcrafted to meet exacting standards. Feature box joints for stability, hand-finished jaws with beveled corners and handles with hand-tooled Revere grip for secure holding. Measures 5¼" long. Sold individually and in a full set with stand. Made in Germany.

Description	Jaw Size (L x W)	Item#	Each
A. Flat/Half-Round Pliers	22.5 x 5.0–4.9mm	**180-0393**	**$35.10**
B. Flat Nose Pliers	24.8 x 5.7–4.8mm	**180-0391**	**32.95**
C. Round Nose Pliers	22.8 x 5.0–1.3mm	**180-0392**	**32.95**
D. Chain Nose Pliers	23.2 x 7.4–1.4mm	**180-0390**	**32.95**
4-Piece Set (one of each with stand)		**180-0394**	**137.95**

Economy Stainless Steel Pliers

Economical stainless steel pliers for everyday use at the bench. Feature box joints for stability and yellow plastic grip-tight handles. Available individually or in a set of four (see below). Measures 5¼" long. Made in Pakistan.





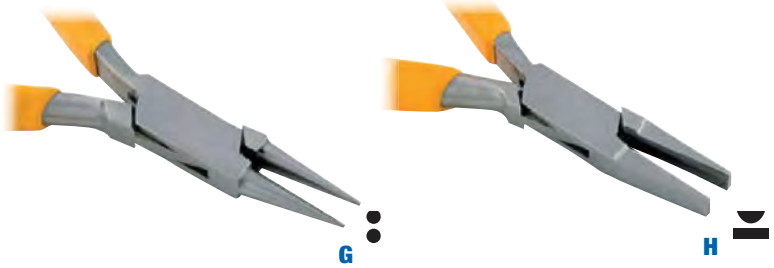
E. Chain Nose Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
Chain Nose	¾" x 1/16" *	**180-0352**	**$9.95**	**$8.96**

**Tapers to this width.*

F. Flat Nose Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
Flat Nose	¾" x ¼"	**180-0350**	**$9.95**	**$8.96**



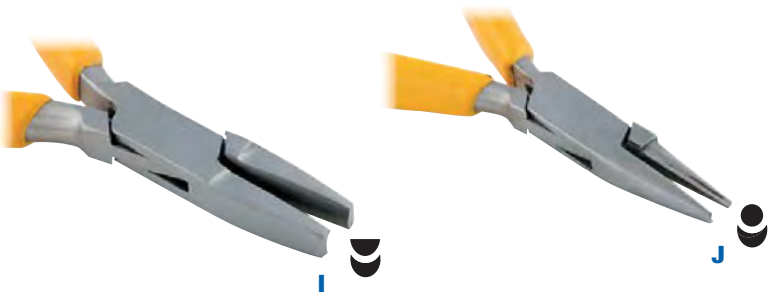
G. Round Nose Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
Round Nose	¾" x 1/16" *	**180-0351**	**$9.95**	**$8.96**

**Tapers to this width.*

H. Half-Round/Flat Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
Half-Round/Flat	¾" x ¼"	**180-0353**	**$10.50**	**$9.45**

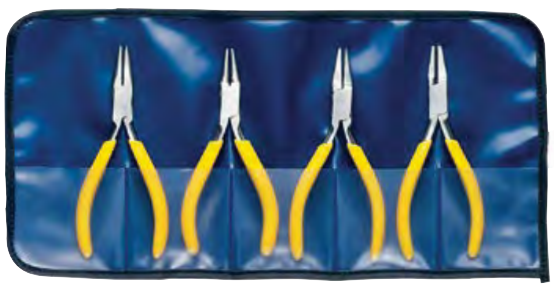


I. Half-Round/Hollow Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
Half-Round/Hollow	¾" x ¼"	**180-0357**	**$10.50**	**$9.45**

J. Round/Hollow Pliers

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
Round/Hollow	¾" x ⅛"	**180-0356**	**$10.50**	**$9.45**



K. Economy Stainless Steel Plier Set

Includes four of our most popular Economy Stainless Steel Pliers: chain, flat, round and half-round/flat pliers. Imported.

Description	Item#	Each
4-Piece Set	**180-0360**	**$35.95**

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A. Wolf™ Groovy Chain Nose Pliers

Single-grooved jaws produce 90° bends in wire and flat pieces. Prevent wire from twisting or slipping when filing. Hold jump rings firmly for easy alignment of ends prior to soldering. Feature durable box-joint construction with dual leaf springs and ergonomic handles with PVC grips. Made of stainless steel. Measures 5¾" long.

Description	Item#	Each
Chain-Nose	**180-0382**	**$16.95**

A

B. Wolf™ Groovy Looping Pliers

Triple-grooved jaws allow you to repeat three exact sizes of loops when wire wrapping, making earring loops and jump rings. Feature durable stainless steel box-joint construction with dual leaf springs and ergonomic handles with PVC grips. Available with or without grooves; Pliers without grooves are more traditional. Measures 5" long.

Description	Item#	Each
B. Looping with grooves	**180-0380**	**$16.95**
Looping without grooves	**180-0381**	**15.95**

B

C. Loop Opening Pliers

Reverse-action pliers for opening loops, rings and more. Feature yellow nonslip grips. Measures 6¼" long.

Description	Item#	EACH Prices 1-2	3+
Loop Opening	**180-0354**	**$13.50**	**$12.15**

C

D. Loop Closing Pliers

Feature smooth shaped jaws for closing loops, jump rings, bracelet links and more without distorting or marring, durable box-joint construction and PVC grips. Measures 4½" long.

Description	Item#	EACH Prices 1-2	3+
Loop Closing	**180-0011**	**$14.30**	**$12.87**

D

E. Wire Twisting Pliers

Twists wire up to .060-gauge with simple one-pull action. Produces durable strands that won't unravel. Hardened and tempered. Measures 9" long.

Description	Item#	Each
Wire Twisting Pliers	**180-4095**	**$22.95**

E

F. Clip Spring Removing Pliers

Use for adjusting the length of Seiko style watch bands. The flat jaw rests atop the link, and the pointed tip fits under the clip spring. Gently squeeze the handles, and the clip spring pops up, ready for easy removal. Measure 5½" long.

Description	Item#	Each
Clip Spring Removing Pliers	**820-9069**	**$9.45**

F

G. Hole Punching Pliers

Punch precise 1.5mm holes in leather watchbands. Feature return spring for smooth action and comfort handles for secure grip. Made of the finest steel for durability. Measure 5¾" long.

Description	Item#	Each
Hole Punching Pliers	**820-9074**	**$10.95**

G

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Xuron Micro-Shear® Flush Cutters and Pliers

Micro-Shear Flush Cutters feature a patented design that keeps blades sharper longer than conventional nippers. Blade edges bypass each other in a shearing motion rather than striking, resulting in clean square cuts with no spikes. Blades stay sharper and last much longer than conventional nippers because there is no edge-to-edge impact. Greatly reduce mechanical shock delivered to components and require roughly 50% less effort to cut wire than conventional compression-type wire cutters. Have ergonomically shaped, nonslip Xuro-Rubber comfort grips. Made in USA.

A. Xuron 9100 Micro-Shear® Flush Cutter

Made of tough steel alloy with ultra-precise CNC grinding and state-of-the-art heat treating. Features oval head for added durability, Light Touch return spring and glare-free black finish. Comfortable for high-volume applications. Flush cuts soft wire up to 14 AWG (1.6mm). Measures 5" long.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
9100 Cutter	9 x 12.2mm	**181-0202**	**$18.50**	**$17.58**

B. Xuron 9200 Micro-Shear® Flush Cutter

Made of tough steel alloy with ultra-precise CNC grinding and state-of-the-art heat treating. Features tapered head for cutting in high-density areas, Light Touch return spring and glare-free black finish. Comfortable for high-volume applications. Flush cuts soft wire up to 14 AWG (1.6mm). Measures 5" long.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
9200 Cutter	9 x 12.2mm	**181-0204**	**$18.50**	**$17.58**

C. Xuron 2175 Maxi-Shear® Flush Cutter

Features elongated and tapered head with extra-tough high-carbon steel blades for cutting in high-density areas. Has nonprotruding flat return spring for excellent feel without excessive tension and glare-free black finish. Flush cuts soft wire up to 12 AWG (1.6mm). Measures 6" long.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
2175 Cutter	12 x 17mm	**181-0208**	**$12.50**	**$11.88**

D. Xuron LX Micro-Shear® Flush Cutter

Features ultra-slim profile and tapered head with precision-ground, extra-tough high-carbon steel blades for cutting in high-density areas with maximum maneuverability. Perfect for small hands. Flush cuts soft wire up to 16 AWG (1.0mm). Measures 4.8" long.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
LX Cutter	9 x 14mm	**181-0200**	**$15.50**	**$14.73**

E. Xuron 450 Tweezers Nose™ Pliers

Ultra-precise, durable needle nose pliers capable of grasping and holding wire less than 1mm thick with the strength for wire forming. Prevent leads from popping free, tip misalignment and blade crossover. Have radiused edges for protecting lead wires. Feature lightweight construction, Light Touch return spring and glare-free black finish. Measures 5" long. Made in USA.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
450 Pliers	20 x 10mm	**181-0206**	**$15.50**	**$14.73**

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A. Micro Flush Cutter

Hardened tool steel cutter with induction-hardened jaws. Features relieved cutting edges for clean cutting, fine points for tight work, steel return spring and comfort grips. Measures 4¾" long.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Diagonal	½"	**180-4090**	**$12.95**	**$11.66**	**$11.01**

B. Oblique Nipper

Flush-cutting nipper with 20°-angle head for reaching tight areas. Has return spring for smooth cutting action and nonadjustable lap joint. Cuts 28-18 AWG, .014"-.059" or 0.3-1.25mm diameter copper or annealed 14K gold wire. Measures 4½" long. Made in Sweden.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
Oblique	14mm	**182-7231**	**$77.70**	**$73.82**	**$69.93**

C. Barracuda Diagonal Nipper

Flush-cutting nipper made of tool steel alloy. Features 61-63 HRC cutting edges, lap joint, double leaf springs and cushion-grip handles. Cuts up to 26 AWG or 0.40mm hard wire. Measures 4½" long. Made in Germany.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
Diagonal	½"	**181-4094**	**$26.80**	**$24.12**

D. Stone Setting Pliers

Ideal for tightening prongs. Feature box joints for stability. Available in deluxe and economy styles. Measures 4¾" long.

	Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3-9	10+
D.	Deluxe German	½" x 3/16"	**181-2900**	**$30.85**	**$29.31**	**$27.77**
	Economy Pakistan	½" x 3/16"	**181-2950**	**$12.95**	-	-

E. Jump Ring Opening Pliers

Reverse-action pliers for stretching or opening jump rings as small as 20-gauge, bows, links and rings. Has ridges on outside edges of jaws that hold rings securely in place. Made of chrome vanadium steel with PVC grips. Measures 5¾" long. Taper to 3/16" at the tips. Made in Germany.

Description	Item#	Each
Jump Ring Opening	**180-0292**	**$29.95**

F. Prong Opening Pliers

Open prongs without fracturing stones. Use grooved jaw to hold prong in place and angled jaw to slip under prong and raise it. Avoid putting pressure on top of stone to prevent marring and scratching. Feature box joint for stability, perfectly aligned tapered jaws, double leaf springs and cushion grips. Measures 4½" long. Made in Germany.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
Prong Opening	¾" x 1/16"	**180-0020**	**$25.60**	**$23.04**

G. Prong Closing Pliers

Close prongs over stones without slipping. Use curved, tapered jaws with grooved tips to hold prong securely. Feature box joint for stability, perfectly aligned jaws, double leaf springs and cushion grips. Measures 4½" long. Made in Germany.

Description	Jaw Size (L x W)	Item#	EACH Prices 1-2	3+
Prong Closing	¾" x 1/16	**180-0025**	**$25.60**	**$23.04**

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A

A. Ring Forming Pliers

Feature heavy-duty box-joint construction and two different smooth jaws: concave and convex. Have white plastic grips. Measures 6½" long. Jaw size: 1⅛"L x 3/16"W. Made in Germany.

Description	Item#	EACH Prices 1-2	3+
Ring Forming	**180-0100**	**$41.00**	**$36.90**

B

B. Ring Bending Pliers

Feature heavy-duty box-joint construction and two different smooth jaws: one with wide, rounded V-slot and the other shaped to fit into the slot. For bending wire and strips. Have white plastic grips. Measures 6½" long with 5/8" long jaws. Made in Germany.

Description	Item#	EACH Prices 1-2	3+
Ring Bending	**180-0050**	**$38.50**	**$34.65**

C

C. Stone Removal Pliers

Easily remove stones from settings while preventing damage. Can be used on all prong settings, bead settings, clusters, channels, fishtails and baguettes. Feature thin narrow tips that fit into tight recessed areas and very small settings, box joint for perfect alignment of jaws and cushion-grip handles for comfort. Measures 4¾" long.

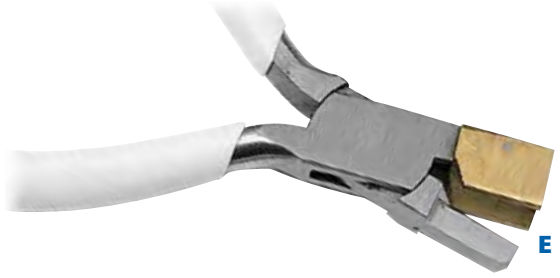
Description	Item#	Each
Stone Removal	**181-2975**	**$16.70**

D

D. Ring Holding Pliers

Lightweight nickel-plated box-joint pliers with curved, depressed jaws for gripping rings securely. Measures 5½" long. Jaw size: 1⅛"L x 3/8"W. Made in Pakistan.

Description	Item#	EACH Prices 1-2	3+
Ring Holding	**180-0200**	**$9.80**	**$8.82**



E

E. Ring and Bow Closing Pliers

Standard-weight box-joint pliers for closing small rings, bows, jump rings, loops and more. Feature one brass jaw to prevent marring. Measures 5¼" long with 5/8" long jaws. Made in Germany.

Description	Item#	EACH Prices 1-2	3+
Ring and Bow Closing	**180-0005**	**$56.00**	**$50.40**

F

F. Econo Bow Closing Pliers

Well-made stainless steel box-joint pliers for closing rings, bows and more. Have yellow comfort grips curved to fit in palm. Measures 6½" long with 5/8" long jaws. Made in Pakistan.

Description	Item#	EACH Prices 1-2	3+
Econo Bow Closing	**180-0355**	**$15.95**	**$14.36**

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Nylon-Jaw Pliers

Heavy-duty stainless steel pliers with box joints and plastic comfort grips. Feature replaceable nylon jaws for gripping firmly without marring. Can be easily customized by filing or carving. Measures 5¾" long. Imported.

A. Flat Pliers

For general-purpose work. Jaw size: 1"L x 7/16"W.

Description	Item#	Each
Flat Pliers	**180-0001**	**$13.95**
Replacement Jaws, pair	180-0002	4.15

B. Bracelet Bending Pliers

Feature a gentle arch for shaping and reshaping bracelets.

Description	Item#	Each
Bracelet Bending Pliers	**180-0282**	**$20.95**
Replacement Jaws, pair	180-0283	4.15

C. Ring Bending Pliers

Have a pronounced curve for bending ring sizes 6½ and larger.

Description	Item#	Each
Ring Bending Pliers	**180-0286**	**$19.50**
Replacement Jaws, pair	180-0287	4.15

D. Ring Closing Pliers

Commonly used to reshape or close rings after sizing. Bottom jaw is nylon with V-groove. Top jaw is polished stainless steel.

Description	Item#	Each
Ring Closing Pliers	**180-0288**	**$21.95**
Replacement Jaws, pair	180-0289	4.15

E. Ring Holding Pliers

Feature parallel nylon jaws for holding rings securely while working the inside.

Description	Item#	Each
Ring Holding Pliers	**180-0284**	**$19.60**
Replacement Jaws, pair	180-0285	4.15

F. Spring Bar Bending Pliers

These unique and practical spring bar bending pliers delicately bend spring bars of any size to the proper shape. Feature stainless steel box-joint construction with high-impact grooved nylon jaws that hold the spring bar in place while bending. Measure 5" long.

Description	Item#	Each
Spring Bar Bending Pliers	**180-0294**	**$14.95**

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A

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E

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G

H

A. Carbide Diagonal Cut Nipper

Cuts up to 12-gauge nonferrous metal. Features PVC cushion grip handles and return springs. Measures 5½" long. Made in Pakistan.

Description	Item#	EACH Prices 1-2	3+
Carbide Diagonal Cut Nipper	**181-4095**	**$26.95**	**$24.26**

B. Supra® Swiss Tungsten Carbide – The Ultimate Cutter – Full-Flush

For stents, catheters, braided mesh, guide wires. This new Full-Flush cutter measures 123 mm in length, jaws 77mm long x 12.5mm thick with premium ergonomic handles. A superbly manufactured instrument 81 HRC. Cuts up to 2.5mm copper wire.

Description	Item#	Each
Tungsten Carbide – The Ultimate Cutter	**182-5360**	**$176.00**

C. Wire Looping Pliers

These box-joint pliers feature a jaw with three finely polished round sections and a concave jaw for easily bending wire. Made of stainless steel for durability. Measures 5⅜" long.

Description	Item#	Each
Wire Looping Pliers	**180-0035**	**$12.35**

D-F Parallel-Jaw Pliers

Feature jaws that stay parallel along their entire lengths whether opened or closed for positive grip of square and hexagonal components. Have nickel-plated sealed handles with anti-rust finish and fully heat-treated black jaws.

Available in two styles: flat and chain. Flat pliers come with smooth or serrated jaws that open to 7/16" (11mm). Serrated version has a single longitudinal V-slot. Chain pliers come with smooth jaws that open to ⅜" (10mm) and measures 3/32" (2mm) square at each tip.

Both styles allow wire to be fed through the throats from either end and held firmly over full jaw lengths. Packaged in vinyl sleeves for protection during shipping and storage. Measures 5" long.

	Description	Item#	EACH Prices 1-2	3-9	10+
D.	Flat Pliers w/smooth jaws	**181-1035**	**$20.48**	**$19.46**	**$18.23**
E.	Flat Pliers w/serrated jaws	**181-1030**	**18.50**	**17.58**	**16.47**
F.	Chain Pliers w/smooth jaws	**181-1060**	**26.80**	**25.46**	**23.85**

G. Wrap-and-Tap Ring Forming Pliers

Use these heavy-duty stainless steel pliers to speed up ring and shank forming: just wrap wire or ring stock around the barrel-shaped solid steel jaw, then gently tap against a mandrel; the PVC-covered small jaw prevents marring of hollow rings and rings with one-sided designs. Form perfect rings, half-shanks and quarter-shanks from stock up to 2mm thick. Have lap joint and smooth, nonslip PVC grips. Measures 6" long. Imported.

Description	Item#	EACH Prices 1-2	3-9	10+
14mm Barrel Pliers	**180-0160**	**$22.95**	**$20.66**	**$18.36**

H. Multi-Size Wire Looping Pliers

Our versatile Multi-Size Wire Looping Pliers can make a variety of bails and loops in 6 sizes: 2.4, 3.4, 4.4, 6.4, 8.35 and 9.35mm.

These high-quality pliers are made of stainless steel with double leaf springs and box joint for stability.

Measures 6" overall length with 1-1/4" long jaws. Imported.

Description	Item#	Each
Multi-Size Wire Looping Pliers	**180-0036**	**$17.95**

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A. Bergeon Heavy-Duty Cutter – Cuts gold sprues up to 3mm

Top-quality cutters with special linkage design that multiples hand pressure many times to provide full, clean cuts. Helps reduce hand fatigue from constant cutting. Features hardened steel jaws with 7/8" (22mm) long cutting edges, extra-long handles for additional leverage and locking system for protection of cutting edges. Pointed ends allow easy access to tight areas. Cuts gold and soft wire up to 3mm thick. Made in Switzerland.

	Description	Length	Item#	Each
A.	Side Cutter	10"	**181-4075**	**$146.00**

B. Power Sprue Cutter – Cuts gold sprues up to 3mm

Cuts sprues and soft wire up to 3mm and hard wire up to 1mm. Makes a semi-flush cut. Features compound joint construction for reduced cutting effort, hardened chrome vanadium steel cutting head and steel handles with plastic nonslip grips. Measures 9½" long with 11/16" (18mm) long jaws. Made in Italy.

Description	Item#	Each
Power Sprue Cutter	**181-4061**	**$120.00**

C. Compound Cutter – Cuts gold sprues up to 3mm

This heavy-duty tool cuts gold sprues and soft wire up to 3mm thick. Features compound joint for cutting with minimal effort and insulated plastic grips. Measures 7¼" long with 7/16" long jaws. Made in Germany.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Compound Cutter	**181-4060**	**$41.95**	**$39.85**	**$37.76**

D. Power Max Cutters – Cuts gold sprues up to 3mm

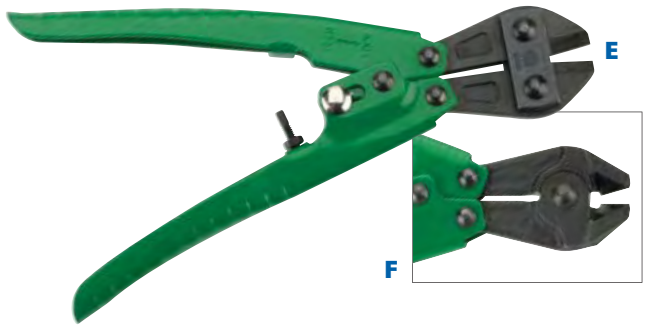
Feature leverage-enhancing design and induction-hardened, high-grade steel jaws for extra-close cutting. Have ergonomically shaped handles for preventing fatigue and injuries. Cuts gold and soft wire up to 3mm thick. Measures 6½" long. Made in Japan.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Flush Cutter	**181-4066**	**$36.95**	**$35.10**	**$33.26**

E, F 3-Peaks Sprue Cutters – Cut gold sprues up to 4mm

These compound sprue cutters feature 60–65 HRC hardened alloy steel construction with 15mm long jaws and comfortable handles. Both cut up to 4mm copper or 1.5mm steel. Side cutter is angled for better access to tight areas. Measures approx. 8½" long. Made in Japan.

	Description	Item#	Each
E.	Standard Cutter	**181-4081**	**$24.75**
F.	Side Cutter	**181-4082**	**31.25**



G. Maun Nippers

Cut sprues up to 3mm with less hand strain. Feature heavy-duty springs that open jaws for repetitive use. Available in two lengths: 5½" with 15mm long jaws and 6½" with 17mm long jaws. The 5½" nipper comes with nickel-plated handles. The 6½" nipper comes with plastic grip guard. Made in England.

			EACH Prices		
	Description	Item#	1-2	3-9	10+
	Maun 15mm	**181-4050**	**$34.95**	**$33.20**	**$31.11**
G.	Maun 17mm	**181-4055**	**59.00**	**56.05**	**52.51**

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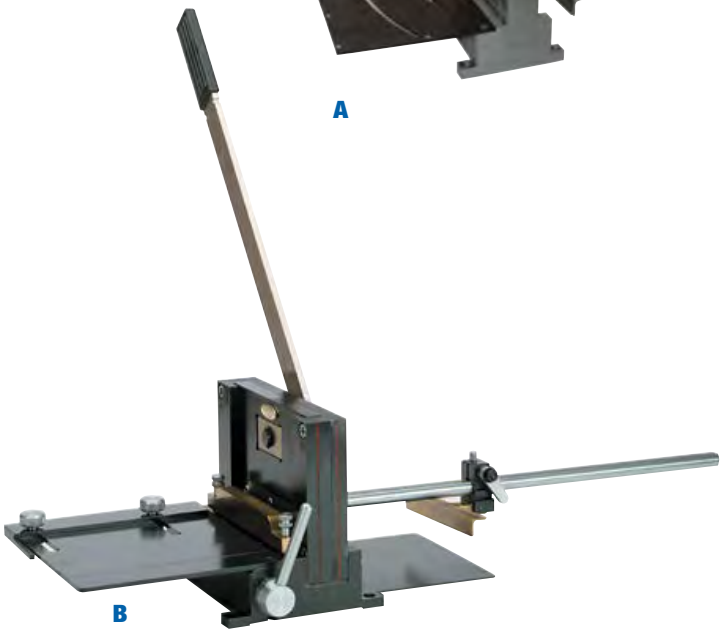


B

A-C Precision Guillotine Shears

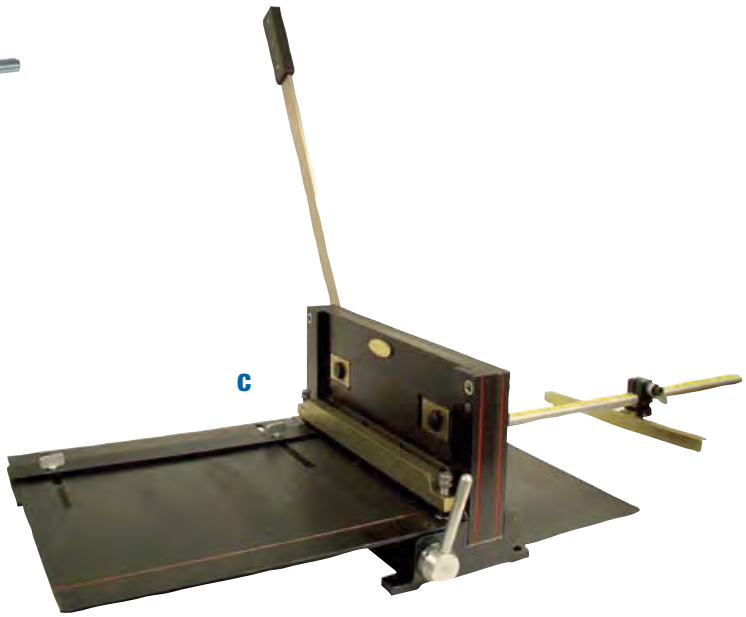
These heavy-duty guillotine shears speed up production and reduce waste by allowing the operator to cut sheets neatly to exact sizes required. Available in 4", 6" and 12" blade lengths. The 4" model has an angle guide allowing precise angle cuts up to 45° (guide is marked 15°, 30° and 45°). Note that angled cuts are for 2" lengths or smaller. Both the 6" and 12" models include an exclusive lever-action locking bar that holds material securely and prevents accidents. All three models have precision-ground and hardened high-carbon steel blades that can be resharpened when necessary, generally after 10,000 cuts. Should be bolted to a sturdy table or bench for safety. Never cut stainless steel, heat-treated or hardened metals. Made in Europe.

Specifications:	4" Blade	6" Blade	12" Blade
Cutting Capacity			
Non ferrous	18 gauge (1.0mm/.04")	10 gauge (2.4mm/.095")	10 gauge (2.4mm/.095")
Mild Steel	N/A	14 gauge (1.6mm/.06")	14 gauge (1.6mm/.06")
Required Space	6¼"W x 4"D	11½"W x 30½"D	19¾"W x 39¼"D
Ship. Wt.	18 lbs.	58 lbs.	99 lbs.

Features:

- Easy-to-read adjustable ruler with cutting guide
- Open back with receiving table for catching cut metal
- All-steel construction

Description	Item#	Each
A. Small, 4" Guillotine Shears	**819-0277**	**$309.00**
B. Medium, 6" Guillotine Shears	**819-0275**	**875.00**
C. Large, 12" Guillotine Shears	**819-0280**	**975.00**



C

D

D. Bench Shears

Shears for cutting flat bars, sheets or rods, such as the center rod of a sprue tree. Features precision-machined blades, hold-down bar for accurate cutting and long handle for leverage. Made in Germany.

Specifications:	5R	6R
Blade Length	6 3/32" (160mm)	8" (200mm)
Cutting Capacity	2 3/8" x 3/16" flat bar, 5/32" sheet, 7/16" rod	2 3/4" x 1/4" flat bar, 3/16" sheet, 1/2" rod
Ship. Wt.	31 lbs.	60 lbs.

Description	4R Item#	Each	6R Item#	Each
Bench Shears	**819-0350**	**$499.50**	**819-0355**	**$695.00**
Replacement Blade Set	819-0357	185.00	819-0358	225.00
Replacement Handle	819-0361	119.00	819-0354	160.00

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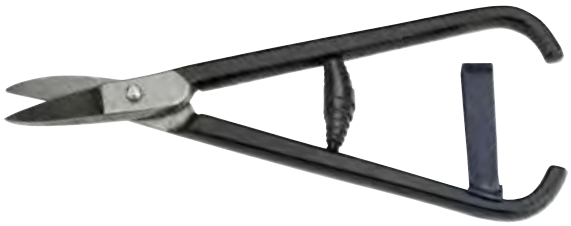
A. Curved Snips with Coil Spring

Coiled springs make these snips very easy to handle and return the blades to the cutting position. Plastic locks keep them closed when not in use. Made from durable hot drop-forged steel. Cut patterns from up to 26-gauge sheet. Measure 7" long with 1½" long blades. Made in Germany.

Description	Item#	Each
Curved Snips	**819-0060**	**$19.65**



A

B, C Lightweight Metal Snips

For cutting templates and patterns from medium-hard metal sheet up to B&S 20 or from soft sheet up to B&S 16. Available with either straight blades for making straight cuts or curved blades for cutting circular shapes. Also choose between looped and plain handles. Measure 7" long with 1½" long blades. Made in Germany.

	Description	Item#	Each
B.	Straight Snips with Looped Handles	**819-0150**	**$15.95**
	Straight Snips with Plain Handles	**819-0100**	**15.25**
	Curved Snips with Looped Handles	**819-0200**	**15.95**
C.	Curved Snips with Plain Handles	**819-0050**	**15.25**

B

C

D. Micro Beading Snips

Use these snips to cut cords and snip apart knotted strands for re-stringing. Reflex action lets you do light work quickly and easily. Measure 3½" long with 1⅛" long blades.

Description	Item#	Each
Micro Beading Snips	**819-0210**	**$2.95**

D

E. Precision Scissors

Lightweight, maneuverable scissors for easy cutting in tight spaces. Feature small (1¼" long) pointed blades made of high-quality stainless steel, large contoured ABS plastic handles and rivet and nylon washer assembly for smooth action. Measure 4¼" long.

Description	Item#	Each
Precision Scissors	**819-0110**	**9.95**

E

F. Crown Scissors

Stainless steel scissors with small (1" long) blades and large looped handles. Can be used on soft wire and very light metals. Great for cutting around bezels. Measure 4½" long.

Description	Item#	Each
Crown Scissors	**819-0115**	**$4.20**

F

G. Short-Blade Scissors

Feature small (1" long), sharp blades with fine points for easy cutting in the tightest spaces. Excellent for cutting thread, ribbon and bead cord. Measure 3½" long. Stainless Steel.

Description	Item#	Each
Short-Blade Scissors	**819-0125**	**$3.35**

G

H. Solder Cutting Pliers

These special pliers can be used to consistently cut both sheet and wire solder. Sheet is cut in 1/16" (1.6 mm) squares and wire, up to 18-gauge (1.02 mm), in 1/16" lengths. Cut is consistent time after time, Measures 5½" overall length with plastic comfort grips.

Description	Item#	Each
Solder Cutting Pliers	**180-0279**	**$16.10**

H

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A-C Goldwashers

Precious metal recovery systems with automatic filters.

These patented automatic hand-wash sinks recover precious metal from your workshop's soapy water. Feature inexpensive, corrosion-resistant 25 micron cartridge filters, which can be easily replaced and burned. Use powerful 500W motors to pump water through separation compartments at an impressive rate of 30 liters per minute—much faster than other models on the market. Have perfectly watertight covered tanks, which eliminate liquid stagnation and all its accompanying odors. Made of stainless steel and corrosion-resistant material. Include chrome-plated taps with separate handles for hot and cold water and indicator gauges for filter replacement. Made in Italy.

Specifications:

Electrical: 110V, 5A, 1 Ph, 500W, 60Hz (220V, 50/60Hz available)

Cartridge Filter 25 micron

Description	(W x D x H)	Dimensions (lbs.)	Net/Ship. Wt. Item#	Each
A. 4-Tap Unit	50" x 18½" x 43¼"	172/227	**212-1085**	**$6,495.00**
B. 2-Tap Unit	34¾" x 18½" x 43¼"	123/172	**212-1080**	**5,395.00**
C. 1-Tap Unit	19¾" x 18½" x 43¼"	90/140	**212-1090**	**4,590.00**
Replacement Filter			212-1087	32.99

D. Gold Catcher

Recovers all your precious metals before they go down the drain.

By providing room for sedimentation in the tank, Gold Catcher captures your precious metals before they are lost forever, letting you turn them into cash at the refinery. Includes heavy-duty 8-gallon plastic drum with sealed lid, complete external 1½" diameter PVC connections for any sink or drain and easy-to-change, corrosion-resistant 40 micron filter. Has no pumps, moving parts or electrical components. Measures 13" dia. x 20½"H. Weighs just 7 lbs.

Description	Item#	Each
D. Gold Catcher	**856-1205**	**$275.00**
Replacement Filter	856-1206	68.00

E. Reclamation Mats 24" x 36" (30)

Our economical reclamation mat is designed for use as a floor mat in polishing areas. Sticky surface captures and holds onto your precious metal dust without adhesive transfer to your footwear. 30 sheets per mat, each sheet measures 24" x 36". Sold only in multiples of 2 mats for a total of 60 sheets or in boxes of 10 mats for a total of 300 sheets. Due to the size (ships flat) additional shipping charges may apply.

Description	Item#	2pc Each
Pkg. of 30 – packages are sold in multiples of 2 only	**821-2967**	**$29.95**

2pc *Two-piece minimum; Please order in multiples of two.*

Description	Item#	Each
Box of 10 packages of 30	**821-2968**	**$269.50**

F. 3M™ Clean Walk Mat

An adhesive-coated mat that can be used as a bench pan liner or doormat for dust and scrap collection. Includes 30 adhesive sheets on a 2.0mm polyethylene backing. Just peel back top sheet to expose fresh adhesive. Won't adhere to shoes or wheels. Measures 36"L x 18"W.

Description	Item#	EACH Prices 1-3	4+
Clean Walk Mat 18" x 36" 30 sheets	**821-2965**	**$66.20**	**$59.58**

Call Rapp Industrial 724 789-7853 for your current prices sales@rappindustrialsales.com

A. MAX 24 Multi-Function Finishing Machine

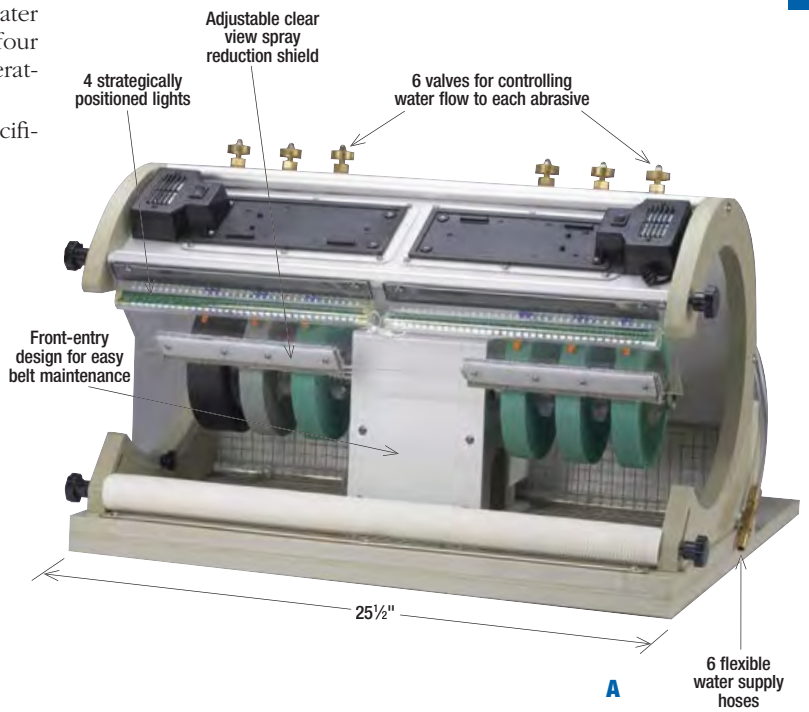
Variable-speed unit for wet and dry grinding and polishing!

Mix and match wheels, belts and discs on your MAX 24 finishing machine, and run them wet or dry without any mess or time-consuming tool changes. MAX 24 is 24" in width and can hold six different abrasives. Just position them in the progressive order that suits your grinding and polishing requirements, then proceed from start to finish, spending less time and effort. MAX 24 can accommodate up to and including 6" wheels.

MAX 24 is ideal for most jewelry applications. Features digital control for running abrasive products at speeds conducive to maximum performance and life, durable stainless steel cabinet with front-entry design for easy belt maintenance, 4-gallon recirculating water pump, separate water supply hoses and valves for controlling water flow to each abrasive, clear-view spray reduction shield and four strategically positioned lights for viewing work in progress. Operating speed range: 500–3,600rpm.

See the next page for a complete line of wheels and belts specifically developed to get the absolute most out of your MAX unit.

Wet or Dry Grinding/Finishing Machines



A

Applications

- Smooth digital control for running wheels & belts at speeds conducive to maximum performance and life
- Operating speed range: variable speed from 500 to 3,600rpm
- Digital readout of speed in rpms
- Stainless steel cabinet
- 4-gallon recirculating water pump
- Separate water supply hoses and valves for controlling water flow to each station
- Clearview spray reduction shield
- 2 internal fluorescent lights with 2 LED lights for viewing work in progress

Specifications

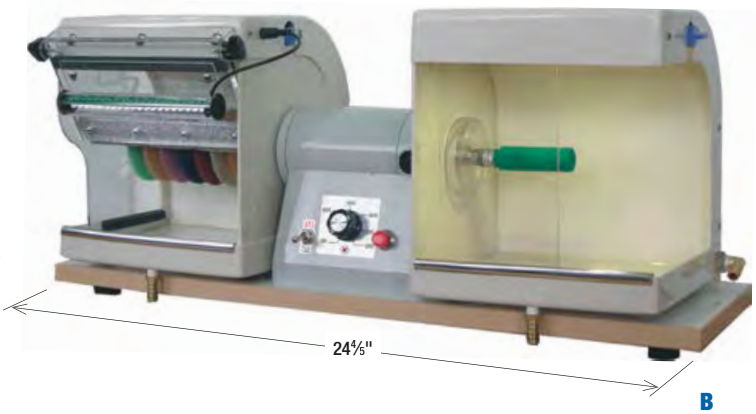
Electrical: 110V, 60Hz
Motor: 1/2 HP
Dimensions: 25½"W x 25½"D x 20"H
Variable speed control 500-3,600rpm
Recirculating water pump
Machine Shaft: 1" dia x 22" long (usable length 6½" on each side)
Net/Ship. Wt.: 114/192 lbs.

Description	Item#	Each
MAX 24	**854-0010**	**$2,550.00**

B. MINI MAX Combo Grinder/Polisher

Variable speed with inside/outsidering polishing

The Mini Max Combo is ideal for wet or dry polishing applications! The left side of the machine allows for up to (3) drums/wheels (1" thickness) or (6) 3M bristle discs that when run wet increases performance and profit by means of precious metal reclamation. The right side of the unit includes a buffing station to handle the grinding, blending and polishing of the inside of rings. A must for any small shop, the Mini Max Combo allows the user to mix and match wheels, belts and the specialty inside ring buffs. Small foot print, variable speed motor, water system and LED lights for illuminating the workspace. This model is ideal for use with RA/MX polishing wheels, 3M bristle discs and straight/tapered inside ring polishers (Made out of MX material). Accommodates up to a 4" wheel/drum/disc.



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Specifications

Electrical: 110V, 60Hz
Motor: 1/2 HP
Variable speed control: 500-3,600rpm
Dimen: 24⅘"W x 9⅘"L x 11"H
Net/Ship. wt: 25/31 lbs.
High power 4 gallon/recirculation water pump

Description	Item#	Each
MINI MAX	**854-0120**	**$1,150.00**

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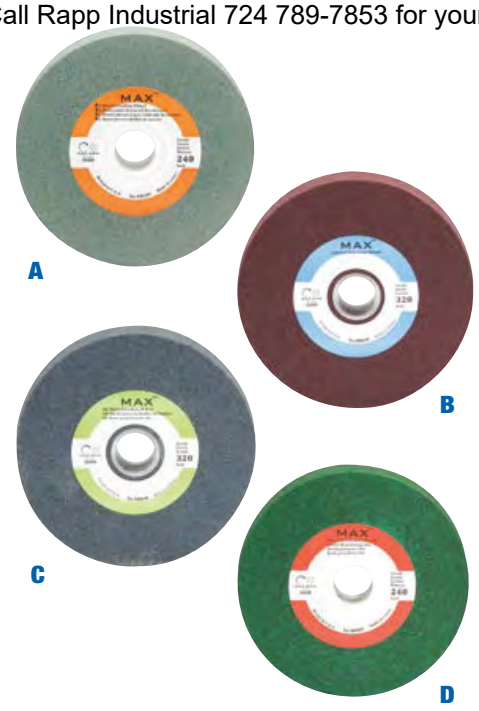

MAX Accessories

A-D MAX Abrasive 6" Wheels

Choose from four types of 6" wheels specifically developed for our MAX 24/30 units: XA grinding, LD light deburring, MF multifinishing and MX polishing. Measure 6" dia. x 1" thick x 1"AH. Recommended operating conditions: 1,200–1,800rpm with medium water flow for XA, LD and MF wheels; 1,200–1,500rpm with light water flow for MX wheels.

	Description – 6" dia.	Grit	Item#	EACH Prices 1-2	3+
A.	RA Removing Sprues & Parting Lines Lapping Edges and Flat Surfaces	240	**845-3060**	**$65.95**	**$62.65**
B.	LD Light Deburring	320	**845-3053**	**33.95**	**32.25**
C.	MF Light Deburring and Prepolishing	320	**845-3050**	**33.95**	**32.25**
	MF Prepolishing	600	**845-3051**	**33.95**	**32.25**
	MF Polishing	1000	**845-3052**	**33.95**	**32.25**
D.	MX Light Deburring	240	**845-3055**	**41.95**	**39.85**
	MX Prepolishing	600	**845-3056**	**41.95**	**39.85**
	MX Fine Polishing	1500	**845-3057**	**41.95**	**39.85**
	MX High Shine Final Polish	3000	**845-3058**	**41.95**	**39.85**

E, F MINI MAX Abrasive 4" Wheels – For Blending and Polishing

For use with the MINI MAX finishing machine. Measure 4" diameter x 1" thick x 3/8" AH wheels. Operation: 1,200–1,800rpm with medium water flow for RA wheels; 1,200–1,500rpm with light water flow for MX wheels.

	Description – 4" dia.	Grit	Item#	Each
E.	RA Removing Sprues & Parting Lines Lapping Edges and Flat Surfaces	240	**845-3075**	**$23.50**
F.	MX Light Deburring	240	**845-3071**	**23.50**
	MX Prepolishing	600	**845-3072**	**23.50**
	MX Fine Polishing	1500	**845-3073**	**23.50**
	MX High Shine Final Polish	3000	**845-3074**	**23.50**

G-I 3M™ Scotch-Brite™ Radial Bristle Discs

The 3" discs are sold with RH tapered spindle adapters in packages of 10 or 40. Used to clean, pre-polish, blend and remove scratches and firescale. Require no compounds, and long lasting and nonloading. Max. operating speed 20,000rpm.

	Dia. x AH	Color	Grit	Item#	Pkg. of 10 Each	Pkg. of 40 w/hub Item#	Each
G.	3" x 3/8"	Yellow	80	**145-1780**	**$33.50**	**145-1710**	**$123.25**
		White	120	**145-1785**	**33.50**	**145-1715**	**126.70**
		Red	220	**145-1790**	**33.50**	**145-1720**	**126.70**
		Blue	400	**145-1795**	**33.50**	**145-1725**	**126.70**
		Pink	Pumice	**145-1800**	**33.50**	**145-1730**	**123.60**
		Peach	6 Micron	**145-1805**	**33.50**	**145-1735**	**123.60**
		Lt. Green	1 Micron	**145-1810**	**33.42**	**145-1740**	**123.60**

	Description	Item#	Each
	22-Piece 3" Disc Set	**145-1815**	**$75.00**
H.	RH Tapered Spindle Adapter Hub for 2" and 3" discs	**145-1921**	**3.10**
I.	LH Tapered Spindle Adapter Hub for 2" and 3" discs	**145-1922**	**3.10**

See More 3M™ Radial Discs on pp. 56, 78-79.

J. 6" 3M™ Scotch-Brite™ Radial Bristle Discs – For use with polishing motors

Each 6" disc consists of eight stacked discs mounted on a plastic hub. Includes adapters for 3/8", 1/2", 5/8" and 3/4" arbors. Max. operating speed 6,000rpm.

	Dia. x AH	Color	Grit	Item#	EACH Prices 1-2	3+
J.	6" x 1"*	Yellow	80	**145-1925**	**$60.70**	**$55.97**
		White	120	**145-1926**	**60.70**	**55.97**
		Red	220	**145-1927**	**60.70**	**55.97**
		Blue	400	**145-1928**	**60.70**	**55.97**
		Peach	6 Micron	**145-1929**	**60.70**	**55.97**
		Lt. Green	1 Micron	**145-1930**	**60.70**	**55.97**

**Complete with adapters for 3/8", 1/2", 5/8", and 3/4" arbors.*

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A. 3M™ Cubitron™ Belt

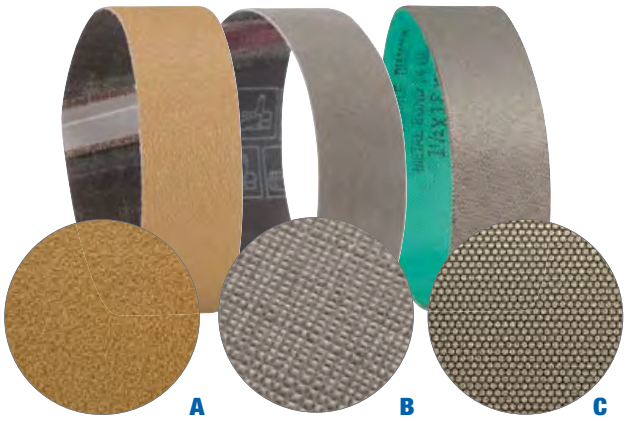
Features Cubitron ceramic abrasive, simply the toughest mineral on the market. Cuts like aluminum oxide but lasts twice as long and produces less dust. Provides a finish ready for further refinement. Measures 1½"W x 18 15/16"L. Use with 6" Expander Drum (see below).

Description	Drum Size	Grit	Item#	Each
Cubitron Belt	6"	80	**109-8451**	**$7.10**

B. 3M™ Trizact Belt

Our 120 grit Trizact belt was developed specifically to run wet. It's microreplication structure provides a fast consistent finish. Measure 1½"W x 18 15/16"L. Operating speed: 3,600 RPM.

Description	Drum Size	Grit	Item#	Each
Trizact Belt	6"	120	**109-8450**	**$8.05**



C. 3M™ Flex Diamond Belt

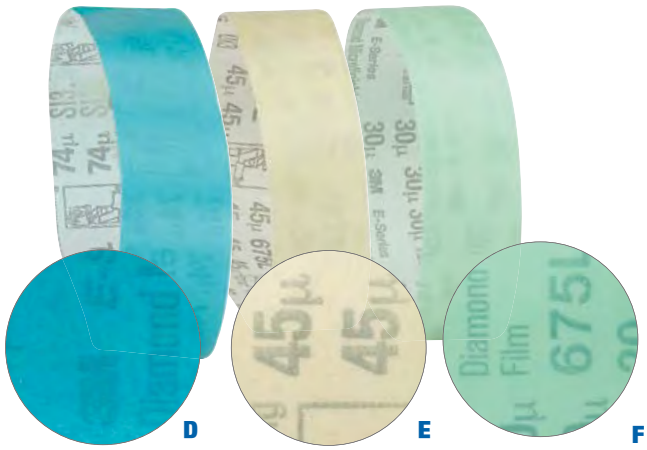
A durable, nonloading belt for cleaning, shaping and prefinishing. Coated with diamond in a honeycomb pattern for fast cutting with no gouging or catching. Run wet or dry on hard and soft metals, including platinum, palladium and white gold, and even soft stones. Measures 1½"W x 18 15/16"L. Use with 6" Expander Drum (see below).

Description	Drum Size	Grit	Item#	Each
Flex Diamond Belt	6"	220	**109-8453**	**$81.50**

D-F 3M™ Diamond Micro-Finishing Film Belts

Consist of precision-graded diamond abrasive bonded onto flexible film backing. Cut faster than aluminum oxide and silicon carbide. Run wet or dry on metals, stone, glass, enamel, plastic and more. Color-coded for east grit identification. Measure 1½"W x 18 15/16"L. Use with 6" Expander Drum (see below).

	Description	Drum Size	Color	Grit	Item#	Each
D.	Diamond Film Belt	6"	Aqua	220	**109-8452**	**$17.25**
E.			Yellow	320	**109-8454**	**17.90**
F.			Green	400	**109-8455**	**17.05**



G. MINI MAX Sanding Belts – For 4" drum

Feature silicon carbide bonded onto cloth backing for fast cutting. Can be used wet or dry on a variety of metals. For 4" expander drum. Measures 1"W x 12 9/16"L, 4" diameter. Imported

Grit	120	240	320	500	Pkg. of 10
Item#	**845-3066**	**845-3067**	**845-3068**	**845-3070**	**$12.60**

H. MAX 24 Expander Drum – 6" diameter

This rubber drum expands while running to grip belts securely yet allows simple belt removal. Measures 6" dia. x 1½" thick x 1"AH. Mount on MAX 24 or polishing motors with included ¾", ⅝" and ½" plastic arbor hole inserts. Max. operating speed: 2,400rpm. Made in USA.

		EACH Prices	
Description	Item#	1-2	3+
Expander Drum 6"	**840-1257**	**$62.00**	**$55.80**

I. MINI MAX Expander Drum – 4" diameter

This rubber drum expands while running to grip belts securely yet allows simple belt removal. Measures 4" dia. x 1" thick x ⅜"AH.

Description	Max. Speed	Item#	Each
Expander Drum 4"	3,600rpm	**845-3065**	**$49.95**

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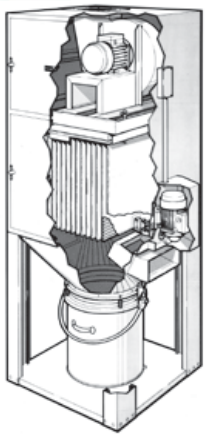


A. Gesswein/DCE Vokes Dust Collector #68

The finest in the industry. Provides better suction with less noise.

Equipped with a triple inlet hopper. A quick-release sealer gear provides an airtight seal between the hopper and the dust container. Filter bags are rigidly separated to prevent blockage. The automatic shaker vigorously cleans the filter bags for approximately 60 seconds every time the fan is switched off. Supplied with filter assembly and transition inlet. Backed by a full two-year warranty.

Features:

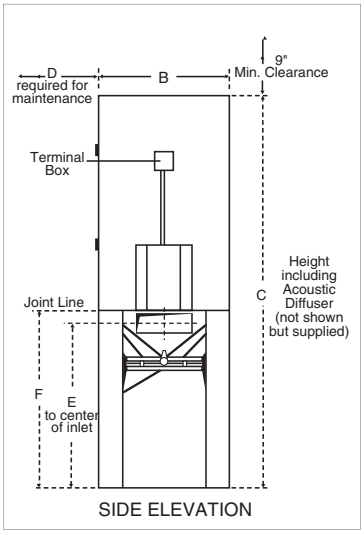
- Shakers for filter assembly activate automatically every time unit is switched off, keeping filters cleaner so they last longer.
- Fully electronic controller (switch box).
- Wide, flush-fitting front panels for fast, easy access to fan and filter chambers.
- Multi-pad filter assembly provides maximum fabric area for optimal filtration.
- High-quality filter fabric.
- One-piece multiple filter bag system minimizes the number of seals needed between the fabric and frame.
- Flexible wire mesh pad inserts ensure maximum effective use of fabric area.
- Airtight design for maximum efficiency.
- Built-in silencer reduces noise to level well within OSHA specifications: 71 dBA.
- A choice of three inlet positions for convenient location of unit in relation to workstations and for best use of available space.

Specifications:

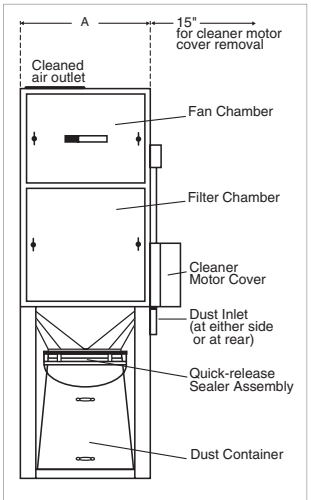
No. of Stations:	5–8	Dimensions:	
Suction Motor:	5 HP	A (Width)	2' 6⅛"
Airflow:	2,000 CFM	B (Depth)	2' 6⅛"
Filter Area:	150 sq. ft.	C (Height)	8' 3½" **
Min. Ceiling Ht.:	9' ½"	D	2' 6"
Duct Diameter:	8"	E	3' 1½"
Dust Container:	3 cu. ft.	F	3' 5"
Ship. Wt.:	606 lbs. (approx.)		

	Description		Item#	Each
A.	Model 68 Dust Collector, 220V, 3 Ph, 60Hz		**854-1750***	**$11,700.00**
	Model 68 Dust Collector, 415V, 3 Ph, 50Hz		**854-1765***	**10,115.00**
	Replacement Filter Assembly		854-1753	917.00

**Prices FOB Kentucky. Additional charges for other voltages and for export crating.*
*** Ships flat. Must have dock at your location. Can not use a lift gate, due to length when flat. Double check any turns that need to be made inside your facility.*



SIDE ELEVATION



FRONT ELEVATION

If you are looking for a dust collection system that we are not showing in our catalog, please contact us with your requirements. We will work with you to make sure you have what you need.

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A-D Quatro Velocity Dust Collectors

These professional units collect 99.97% of all compound dust and precious metal particulate down to submicron levels. Ideal for grinding and polishing applications. Prefilter and state-of-the-art cartridge filter ensure return air is absolutely clean, eliminating the need for outside ventilation. Built-in collection tray captures your precious metal dust and lets you reclaim it without removing the cartridge filter.

Choose from 1-Port, 2-Port, 4-Port and 4X4-Port models. The 1-Port includes 6' of 3" diameter flex hose and two hose clamps, 2-Port includes 12' of hose and four clamps, 4-Port includes 25' of hose and eight clamps, and 4X4-Port includes 50' of hose and 16 clamps. Electrical: 120V (240V available). Backed by a two-year manufacturer's warranty. CSA and CE approved. Made in Canada. Both the 1-Port and the 2-Port can be shipped UPS.

Features:

- Unique sub-micron dust collection filtration down to .03 microns.
- Prefilter prolongs filter cartridge life 2–4 years.
- "Slide & Glide" easy-in/out filter cartridge captures particulate down to submicron particle levels.
- Advanced filtration technology with highest possible rating (Category C: 99.9% dust extraction) recirculates clean air back into the workplace.
- Built-in collection tray captures your precious metal dust for easy, immediate reclaiming.
- Inlet ports can be positioned on top or side of unit.
- Optional on/off foot switch, on/off remote button, silencer and odor filter also available.

Specifications:	1-Port	2-Port	4-Port	4X4-Port
No. of Stations:	1	1–2	2–4	5–8
Suction Motor:				
Electrical:	120V, 5.3A, 50/60Hz	120V, 6.1A, 50/60Hz	120V, 9.2A, 50/60Hz	120V, 18A, 50/60Hz
Power:	1/2 HP	3/4 HP	1 HP	2 HP
Airflow:	200 CFM	400 CFM	800 CFM	1,600 CFM
Noise level:	56 dBA	56 dBA	58 dBA	70-75 dBA
Filter Area:	25 sq. ft.	35 sq. ft.	60 sq. ft.	60 sq. ft.
Inlet Diameter:	3"	3"	3"	3"
Dimensions, WxDxH:	14"x20"x17"	14"x25"x17"	18"x34"x22"	18"x34"x22"
Net/Ship. Wt.:	65/72 lbs.	73/80 lbs.	120/131 lbs.	140/233 lbs.

	Description	Item#	Each
A.	1-Port Velocity Dust Collector	**854-1383**	**$932.00**
B.	2-Port Velocity Dust Collector	**854-1382**	**1,205.00**
C.	4-Port Velocity Dust Collector	**854-1380**	**1,571.00**
D.	4X4-Port Velocity Dust Collector	**854-1381**	**2,009.00**
	Optional On/Off Foot Pedal for all units	**854-2094**	**98.00**
	Optional On/Off Remote Button for all units	**854-1515**	**48.00**
	Optional Silencer for all units	**854-1528**	**91.00**
	Optional Odor Filter for 4-Port and 4X4-Port	**854-1529**	**184.00**
	Replacement 1-Port Prefilters (20)	854-1399	44.00
	Replacement 2-Port Prefilters (20)	854-1392	49.00
	Replacement 4-Port and 4X4-Port Prefilters (20)	854-1389	56.00
	Replacement 1-Port Cartridge Filter	854-1398	76.00
	Replacement 2-Port Cartridge Filter	854-1391	104.00
	Replacement 4-Port and 4X4-Port Cartridge Filter	854-1388	118.00

A

B

C

D

All prices subject to change without notice.

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A-C Quatro CollectAll Dust Collector

This powerful dust collector removes precious metal, dust and fumes from the air before you breathe them in. Offered in two motor options. The #854-2184 uses a 1.5 HP high-speed brushless turbine motor to produce 600CMF of airflow, providing long continuous use without the need to replace motor brushes. The lower cost #854-2187 uses two 1 HP infinity hybrid motors to produce 450CMF of airflow. The quieter running infinity motors will provide 2,000-3,000 hours of use before needing motor replacement.

Features three-stage filtration system that captures fumes and particulate down to 0.3 micron: bag filter captures large particles from grinding and polishing; odor filter captures rhodium and soldering fumes; HEPA filter captures the smallest particulate down to submicron levels. Returns 99.97% clean air to your shop, making outside ventilation unnecessary. Runs very quietly, so it's perfect for small shops, malls and other places where noise can pose a problem. Includes 12' of 3" dia. flex hose and hose clamps. Backed by a two-year manufacturer's warranty. Made in Canada.

Specifications:

Inlets:	Two 3" dia. inlets in top
Motor:	Std. 1 1/2 HP, or (2) 1 HP infinity motors
Airflow:	(854-2184, 600 CFM) or (-2187, 450 CFM)
Noise Level:	(854-2184, 59dBA) or (-2187, 55dBA)
Electrical:	120V, 12A, 1 Ph, 60Hz
Dimensions, Net Wt.:	17"W x 14"D x 26"H, 75 lbs.

	Description	Item#	Each
A.	CollectAll, Brushless Turbine Motor	**854-2187**	**$1,665.00**
	CollectAll, 2 Infinity Motors	**854-2184**	**$1,924.00**
	Optional On/Off Foot Pedal	**854-2094**	**98.00**
B.	Replacement Bag Filters (6)	854-2092	35.00
	Media Refills (4) for rhodium fumes	854-1396	169.00
	Media Refills (4) for soldering fumes	854-1409	122.00
C.	Replacement HEPA Filter	854-2093	128.00

D. Dust Collector #60B

This affordable dust collector fits neatly under many workbenches, saving precious bench space without taking up too much legroom. Includes silencer for quiet operation, external foot pedal for filter shakedown and removable catch pan for easy reclamation. Made in USA.

Specifications:

Inlets:	Two 3" dia. inlets in back
Suction Motor:	1/2 HP
Airflow:	400 CFM
Noise Level:	50 dBA
Electrical:	110V, 9A, 1 Ph, 60Hz
Dimensions:	16"W x 16"D x 20"H, Net Wt.: 75 lbs.

	Description	Ship. Wt.	Item#	Each
D.	Dust Collector #60B	85 lbs.	**854-1370**	**$875.00**
	Replacement Filter Bags, set of 14		854-3152	435.00

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A-D Quatro Gold Vault Dust Collectors – Economical and efficient!

These popular and affordable 19" high, small footprint (9" square) units can fit neatly under or beside your workbench.

Gold Vault models feature a powerful turbine motor that captures all your precious metal. Very quiet running even at top speed. Feature a variable-speed dial for gentle suction all the way up to top speed plus an electrical plug for the optional on/off foot pedal (854-1515 sold separately).

Supplied with one set of filters installed. Select between two filtering systems. For polishing and grinding operations use the bag filter nested within a washable cartridge filter. Select the box filter system for soldering or rhodium plating operations. Should you wish to change from the box filter to the bag and cartridge set-up, simply remove the support bar. If you wish to change to the box filter from the bag and cartridge you will need to use a support bar available by special order.

Use your Quatro Gold Vault with 3" diameter hoses and hoods by purchasing the optional 1.5" to 3" hose adapter (854-1519 see below).

Six feet of 1½" diameter flexible hose and hose clamps are included. Backed by a 2-year manufacturer's warranty. Made in Canada.

Specifications:

Inlet:	One 1½" dia. inlet in top
Suction Motor:	1 HP
Air Flow:	150 CFM
Noise Level:	60-64 dBA
Electrical:	120V, 7A, 1 Ph, 60Hz
Dimensions, Net Wt.:	9"W x 9"D x 19"H, 31 lbs.

	Description	Item#	Each
A.	Gold Vault w/Bag and Cartridge Filters	**854-1530**	**$648.00**
	Gold Vault with Box Filter	**854-1535**	**720.00**
B.	Replacement Bag Filters (5)	854-1531	30.00
C.	Replacement Cartridge Filter	854-1532	50.00
D.	Replacement Box Filter	854-1536	88.00
	Optional Foot Petal	854-1515	48.00

E. Quatro Basic

With this tiny unit, you don't have to sacrifice air quality or recovery capability even if your space is limited. Great for grinding, polishing, engraving and much more. Ideal for tight spaces. High-speed turbine for fast collection and replaceable bag filter.

Select between hand or foot switch style. Includes 6' of 1½" diameter hose. Can be used with JoolTool and other miniature finishers with 1½" diameter outlets. Use with 3" hoods and hoses by purchasing the optional 1.5" to 3" adapter (854-1519 see below). Two year manufacturer's warranty. Made in Canada.

Specifications:

- Electrical: 120V, 7A, 1 Ph, 60Hz — Suction Motor: 1 HP
- Dimensions: 7"W x 9¾"H (11"H to top of inlet) x 16"D — Airflow: 130-150 CFM
- Net Wt.: 20 lbs. — Noise Level: 60-64 dBA

	Description	Item#	Each
E.	Quatro Basic + Hand Switch	**854-1366**	**$411.00**
	Quatro Basic + Foot Switch	**854-1367**	**426.00**
	Replacement Bag Filters	854-1531	30.00

F. Quatro Hose Adapter

Heavy duty plastic adapter fits 2½" hose and widens to 3". Use to attach any dust collector with 1½" inlet (such as Quatro Basic and Gold Vault) to a 3" hose or hood opening.

Description	Item#	Each
Quatro Hose Adapter (1.5" to 3")	**854-1519**	**$13.00**

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A

A. MicroVac III Under-Bench Dust Collector

The sophisticated, powerful MicroVac III provides quiet, efficient dust collection at your bench. Extracts 99.99% of dust from the air. Positioned vertically in an easily accessible door, a bag filter with barrier mat allows dust to settle to the bottom to maintain suction and extend filter life. An extra-fine cartridge filter captures tiniest dust particles.

Features two-stage turbine with muffler that offers enough power to collect dust from two stations at once, control knob for fully adjustable suction and auxiliary outlet that provides the option to operate both your MicroVac III and flex shaft or micromotor at the flip of one switch (manual switch allows override).

Sold with 6'L x 1½" dia. hose only or 6' hose, safety-glass face shield on stand and magnetic handrest. Includes mounting plate and all hardware for optional under-bench attachment and set of filters. Has 1½" dia. inlet in back. Noise level: 52–61 dB. Electrical: 120V, 60Hz. Measures 10½"W x 14½"D x 15"H. Backed by a one-year warranty. CE approved. Made in Germany.

	Description	Ship Wt. (lbs.)	Item#	Each
A.	MicroVac III w/ 6' hose only	46	**854-2128**	**$1,195.00**
	MicroVac III w/ all accessories	54	**854-2127**	**1,435.00**
	Optional Standard Bag Filters (3)		**854-2119**	**39.95**
	Replacement Bag Filters with Mat (3)		854-2117	74.85
	Replacement Cartridge Filter		854-2121	74.25

B

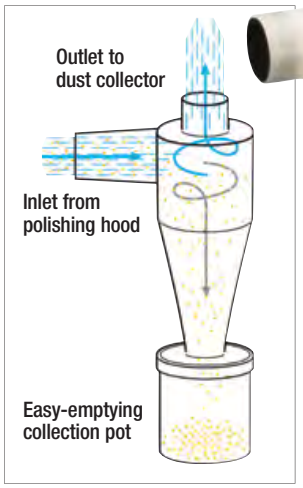
C

B, C ARBE Under-Bench Vacuum System

This compact, efficient, quiet system fits neatly under or next to your bench, removing air contaminants while you work. Features a fish-mouth suction hood that can be placed on top of your bench to pull dust and fumes away from your face. Has on/off switch on top for easy accessibility.

Includes 6'L x 1½" dia. flexible hose and two quick-change filters: disposable bag filter for particulate (send to your refiner when full) and activated charcoal filter for odors (replace every 6–8 months). Optional vacuum bench pin sold separately (see below). Airflow: 110 CFM. Noise level: 56 dB. Electrical: 110V, 4.5A, 50/60Hz. Measures 10"W x 15¼"D x 14"H. Backed by a one-year warranty. Made in USA.

	Description	Item#	Each
B.	Under-Bench Vacuum System	**854-1762**	**$514.00**
C.	Optional Vacuum Bench Pin	**854-1769**	**59.00**
	Replacement Bag Filters (6)	854-1763	29.95
	Replacement Charcoal Filter	854-1764	29.95



D

D. The Accumulator™

Collects 90–95% of all precious metal dust particles!

A problem-solving prefilter for your current dust collection system. Protects workers and equipment from harm, collecting dust and precious metal before they reach the dust collector. How it works: (1) air with dust and debris enters the swirling vortex inside the Accumulator; (2) dust and debris separate out of air and fall into Accumulator bowl; (3) cleansed air, 95% free of dust and debris, flows out of the Accumulator and into your dust collector.

Installs between your existing dust collector and polishing stations. Adapts easily with PVC fittings and can be mounted anywhere along the line. Creates no noticeable drop in suction. Made of durable polyethylene. Choose from small (for 1 station), medium (for 1–2 stations) and large (for 1–4 stations) styles. Made in USA.

	Style	Size (L x W x H)*	Hose Inlets**	Item#	Each
	Small	9" x 4½" x 13¾"	1½"	**854-0995**	**$145.00**
D.	Medium	11" x 6" x 24"	2½", 3"	**854-1000**	**159.00**
	Large	13½" x 8" x 30"	4"	**854-1005**	**265.00**

**Allow 2" extra height for cup removal.* ***Adapters available for other hose sizes.*

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QUATRO We Make Clean Air www.quatro-air.com

A-D Quatro SPU Polishing and Dust Collecting Units

These units use 3-stage filtration systems to capture all your precious metal dust, not just a portion of it. Recover more metal for refining and keep your workplace cleaner and healthier than ever before. Choose from Two-Station and Junior Deluxe models.

An excellent choice for many large shops, the Two-Station SPU comes with Quatro 1/2 HP two-speed double-spindle polishing motor and two tapered spindles. Also includes two lighted Clearview hoods, prefilter, bag filters and HEPA filter.

An ideal fit for small shops, the Junior Deluxe SPU comes with Quatro 1/2 HP two-speed single-spindle polishing motor and tapered spindle. Includes lighted Clearview hood, prefilter, bag filters and HEPA filter.

Clearview hoods fully enclose buff areas, trapping precious metal dust inside. Energy-efficient, LED, low-heat lights in hoods use much less power than incandescent lights and keep your work area much brighter and cooler. Affordable, easy-to-change prefilters under the hoods collect large particles, and subsequent filters capture tiny particles (as small as 0.3 micron with HEPA filter), after which clean air is recirculated back into the room. Backed by a two year manufacturer's warrantee. Made in Canada.

Features:

- Advanced 3-stage filtration systems and powerful suction motors for maximum metal dust recovery.
- Strategically placed inlet locations right below motor spindles for optimal intake.
- Office-friendly whisper-quiet operation.
- Optional on/off foot pedal for on-the-fly polishing.

A

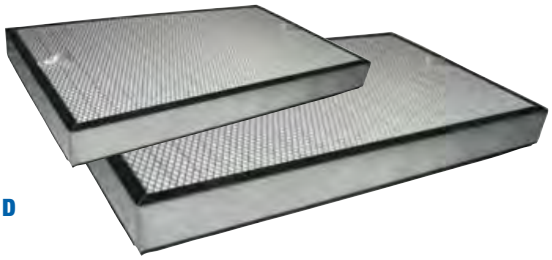
Specifications:	A. Two-Station SPU	B. Junior Deluxe SPU
Electrical:	120V, 9.2A, 1 Ph, 60Hz (240V available)	120V, 4.6A, 1 Ph, 60Hz
Suction Motor:	1 HP Brushless	1/2 HP Brushless
Airflow:	1,200 CFM	600 CFM
Noise Level:	60 dBA	56 dBA
Polishing Motor:	Quatro 1/2 HP two-speed: 3,450/1,725rpm	Quatro 1/2 HP two-speed: 3,450/1,725rpm
Dimensions: (W x D x H):	40" x 20" x 53"	24" x 20" x 50"
Ship wt:	227 lbs.	136 lbs.

Item#	854-2077	$2,570.00	854-2183	$1,740.00
Optional On/Off Foot Pedal	854-2094	$98.00	854-2094	$98.00
Replacement Hood	854-2090	214.00	854-2090	214.00

Replacement Filters	Item#	Package	Item#	Package
Prefilters (20)	854-2078	$46.00	854-2091	$47.00
Prefilters (500)	—	—	854-2095	395.00
C. Bags (6)	854-2092	35.00	854-2092	35.00
D. HEPA	854-2079	128.00	854-2093	128.00

B

C



D

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A
Two-Station

B
One-Station

C

A, B BESTBUILT Polishing and Dust Collecting Units

For improved dust recovery and workplace cleanliness!

Jewelry Equipment

These completely enclosed stand-alone polishing systems utilize a 1/2 HP suction motor in an almost completely sealed work area to capture virtually all your precious metal dust.

Easy to change two-stage filtration system teams a tightly woven cotton bag to collect large precious metal particles and dust with a reusable secondary pleated filter that collects particulate as small as 0.05 micron.

These units were designed for the retail environment combining sleek modern design with function. Powerful 3/4 HP polishing motor has more than enough torque for any job. Made in Korea.

Features:

- Sturdy 12 gauge steel construction
- Shatter-resistant tempered glass access doors—won't scratch or dull like plastics can – easy to clean
- Cool fluorescent light offers a great view of work in progress
- Mounted on wheels for maneuverability
- Shelf conveniently holds supplies

Specifications:	**A. Two-Station**	**B. One-Station**
Electrical:	110V, 20A, 60 Hz	110V, 20A, 60 Hz
Suction Motor:	1/2 HP	1/2 HP
Airflow:	550 CFM	550 CFM
Polishing Motor:	3/4 HP, double-spindle 3450rpm	3/4 HP, single-spindle 3450rpm
Dimensions: (W x D x H):	37" x 22" x 52"	26" x 22" x 52"
Ship wt:	240 lbs.	215 lbs.

Item#	854-1600		854-1605	
Each	**$1,995.00**		**$1,495.00**	
Replacement Filters	Item#	Each	Item#	Each
Pleated	854-1608	$99.95	854-1608	$99.95
Bag 9 ½" x 18"	854-1609	12.00	854-1609	12.00

C-E Quatro PG Dust Collector – Brushless Suction Motor

Superior suction in a compact design. Made to fit under most benches, this workhorse boasts 900 CFM total. Brushless motor and the ability to separate collection materials makes this a must for shops with polishing and grinding applications. Two stage filtration uses bags, then HEPA filters ensuring 99.7% efficiency. 120V, 60Hz, 10A.

Features:

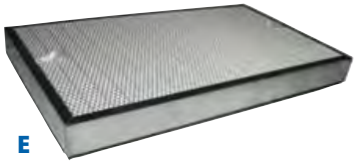
- Brushless Motor-No Motor Maintenance
- Bag Filters collect precious metals inside easily disposable bag
- True HEPA Filter captures fine particles down to 0.3 microns
- Includes 12ft of Heavy Duty 3" diameter hose & clamps

Dimensions:

22"W x 14½"D x 29½"H (height is to top of inlet port)

	Description	Item#	Each
C.	PG Dust Collector	**854-1475**	**$1,105.00**
D.	Replacement Bag Filters (6)	854-2092	**35.00**
E.	Replacement HEPA Filter	854-2093	**128.00**

D



E

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A, B ARBE Benchtop Polisher/Dust Collector

Features suction motor with squirrel-cage turbine, 18-gauge steel construction for longevity, hinged front that tilts up for polishing large pieces and ½" lip for storing buffs and compounds. Holds buffs up to 6" in diameter, as well as long ring buffs. Includes replaceable fiberglass filter and double work light (60W bulbs not included). Available with or without polishing motor and tapered spindles (see pp. 400-401 for details on the motors). Backed by a one-year warranty. Made in USA.

Specifications:

Suction Motor: Electrical: 110V, 50/60Hz Airflow: 465 CFM

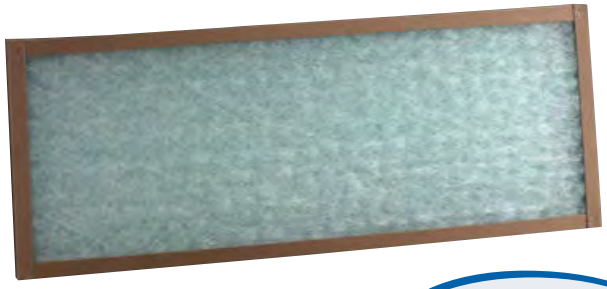
Available Polishing Motors: #16 Baldor 1/2 HP (3,450rpm)
#15 Imported 1/2 HP (3,450rpm)
#25 Baldor 1/4 HP two speed (3,450/1,725rpm)

Filter Size: 29¾" x 11¾" x 2"

Dimensions: 32½"W x 22"D x 12"H

	Description	Ship Wt. (lbs.)	Item#	Each
	Benchtop w/ Motor #16	94	**854-4008**	**$795.00**
A.	Benchtop w/ Motor #15	91	**854-4007**	**595.00**
	Benchtop w/ Motor #25	95	**854-4004**	**790.00**
	Benchtop w/o Motor	58	**854-4009**	**405.00**
B.	Replacement Filter		854-4012	12.50

Shown with #15 motor A



B

For Polishing Motors See pages 400-401

C. ARBE Compact Double-Spindle Polisher/Dust Collector

Ideal for shops with very limited space. Features suction motor with squirrel-cage turbine, 18-gauge steel construction for longevity and 1/2 HP polishing motor. Holds buffs up to 6" in diameter. Includes replaceable fiberglass filter, ½" tapered spindles and double work light (60W bulbs not included). Backed by a one-year warranty. Made in USA.

Specifications:

Suction Motor: Electrical: 110V, 50/60Hz Airflow: 165 CFM

Polishing Motor: 1/2 HP (3,450rpm)

Filter Size: 22" x 12" x 2"

Dimensions: 22½"W x 19"D x 12"H

	Description	Ship Wt. (lbs.)	Item#	Each
C.	Compact Double Spindle	57	**854-4006**	**$350.00**
	Replacement Filters (3)		854-4011	28.75

C

D. ARBE Compact Single-Spindle Polisher/Dust Collector

Ideal for shops with very limited space. Features suction motor with squirrel-cage turbine, 18-gauge steel construction for longevity and 1/2 HP polishing motor. Holds buffs up to 6" in diameter. Includes replaceable fiberglass filter, ½" tapered spindle and work light (60W bulb not included). Backed by a one-year warranty. Made in USA.

Specifications:

Suction Motor: Electrical: 110V, 50/60Hz Airflow: 165 CFM

Polishing Motor: 1/2 HP (3,450rpm)

Filter Size: 13" x 9¾" x 2"

Dimensions: 15"W x 17"D x 10"H

	Description	Ship Wt. (lbs.)	Item#	Each
D.	Compact Single Spindle	47	**854-4005**	**$329.00**
	Replacement Filters (3)		854-4010	23.95

D

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FOREDOM®

A. Foredom® Filter Hood

The portable dust collector for your bench motor!

This compact, powerful unit collects particles from grinding and polishing. Works with Bench Motor #850-0619 (see below) as well as flex shaft and micromotor systems. Offers strong suction for collecting both dust and precious metal. Features a variable-speed motor with voltage selector switch, removable watertight metal tray, LED gooseneck lamp and acrylic safety shield. Includes three replaceable filters (each measures 5 13/16" x 5 7/8" x 3/8" thick). Replacement dust filters are available in a convenient 5 pack (850-0641). These filters remove coarse, large dust particles whereas the replacement charcoal filters, also available in a 5 pack (850-0643) are slated to remove small, fine intermediate particles. Electrical: 110/220V. Measures 6"W x 12 3/4"D x 7 1/2"H. One-year warranty. CE approved.

A

Description	Item#	EACH Prices 1-2	3+
Filter Hood with dust collector	**850-0640**	**$270.00**	**$256.50**
Replacement Filter 5-pack	**850-0641**	**4.95**	**-**
Repl. Charcoal Filter 5-pack	**850-0643**	**8.55**	**-**

B

B. Foredom® BL-1A Bench Motor & Filter Hood Set

This money-saving kit includes the BL Bench Lathe with A-TM-5 and A-TM-6 Tapered Spindles, A-CHA-5 Collet Holder with 3/32", 1/8", and 1/4" collets and A-WM-6 Wheel Mandrel. Also includes 1 Foredom Filter Hood (see 850-0640 above). Collects dust to keep your shop clean.

The Foredom BL Bench Lathe has a high torque, permanent magnet motor that is extremely quiet and smooth running. Cast iron base has mounting holes and suction cup feet for a secure hold on the work surface.

Specifications:

- 1/6 HP, high torque motor
- 115 Volt
- Speed Range: 500-7,000 rpm
- 125 Watts (continuous rating)
- Motor shaft diameter: 5/16"
- Height: 5 1/8"
- Width: 13" between spindles
- Weight: 7.5 lbs
- CSA Certified
- One Year Warranty

Description	Item#	Each
Foredom® BL-1A Bench Motor & Filter Hood Set	**850-0642**	**$475.00**

C

C, D Foredom® Bench Motor – 1/6 HP; 500–7,000rpm

This high-torque permanent-magnet motor provides ample power for grinding and polishing tasks. Features variable speed control, permanently lubricated ball bearings, fully sealed motor housing, cast-iron base and power light. Includes two tapered spindles for buffs up to 4" diameter, threaded right wheel mandrel for wheels up to 2" diameter and right collet holder with 3/32" and 1/4" collets. Electrical: 110V, 2A, 50/60Hz. Measures 13" wide from spindle to spindle with 6"W x 5"D base. Motor height: 5 1/8". Shaft height: 3 3/4". Shaft diameter: 5/16". Available with or without polishing hoods.

Each polishing hood collects metal particles and polishing dust to help keep your shop clean. Includes 2" connection pipe for most shop-vacs. Measures 4 3/4"W x 8"D x 6 3/8"H. Jacobs Chuck Arbor allows mounting of tools with 1/16"–1/4" shanks . Includes chuck key.

D

	Description	Item#	Each
C.	Bench Motor with 2 Polishing Hoods	**850-0625**	**$295.00**
	Bench Motor only	**850-0619**	**220.00**
	Polishing Hood only	**850-0626**	**45.00**
D.	Optional Jacobs Chuck Arbor	**850-0629**	**47.00**
	Optional Left Wheel Mandrel	**850-0613**	**16.75**
	Optional 1/8" Collet for Right Collet Holder	**850-5430**	**8.00**
	Replacement Right Wheel Mandrel	850-0621	16.75
	Replacement 3/32" Collet	850-5420	8.00
	Replacement 3/32" Right Collet Holder	850-0623	19.25
	Replacement 1/4" Right Collet Holder	850-0624	35.00

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A. Mini Bench Motor – Perfect for light work by your bench!

A compact unit with small footprint for easy placement near your bench. Ideal for light grinding, buffing and polishing. Features a 1⁄6 HP prelubricated ball-bearing motor with variable-speed control, two hoods with 2½" outlets for connection to a dust collector or shop-vac, splatter shield with LED light, storage drawer with dividers and two tapered spindles for buffs up to 4" in dia. Motor and hoods are also sold separately (see below).

Optional arbor available for use with ¼" arbor hole wheels on right side; abrasive wheels cannot exceed 2" in dia., and rubber-bonded wheels can't exceed 3" in dia. Optional spring chuck available for use with 3⁄32" shank tools. Electrical: 110V, 50/60Hz. Measures 14½W x 6"D x 7¾"H (measured without light) with 5"W x 4¾"D x 6¼"H hoods. Shaft height: 5¼". Shaft diameter: 5⁄16". Operating speed: 500–5,000rpm.

Description	Item#	Each
A. Mini Bench Motor w/ Hoods	**854-4016**	**$245.00**
Mini Bench Motor w/o Hoods	**854-4015**	**199.95**
Polishing Hood	**854-4017**	**25.00**
Optional Arbor ¼"	**850-0631**	**15.00**
Optional Spring Chuck	**850-0632**	**23.00**
Optional LED Light Shield	**854-4018**	**6.00**

A

B. Polishing Starter Set

Designed for the Foredom and the Mini Bench Motors. Includes Water-Soluble Compound Set #215-1760 (four 1 lb. bars: Gray Star for fast cutting, Tripoli for removing scratches, Premium Red Rouge for polishing yellow gold and Green Rouge for polishing silver and white gold), two 4" Stitched White Muslin Buffs #140-2450, two 4" Loose White Muslin Buffs #140-4350 and four ¾" SUPRA "MK" Soft Wheel Brushes #113-0600 for accessing tight areas.

Description	Item#	Each
Polishing Starter Set	**810-0045**	**$29.00**

B

C. Safety Goggles

A must for polishing, buffing and grinding. Comfortable and lightweight, they easily fit over glasses. Have polycarbonate lens. The sides and top are perforated to reduce fogging. One size fits all. Meet ANSI Z87.1 requirements.

Description	Item#	EACH Prices 1-2	3+
Safety Goggles	**270-0200**	**$9.50**	**$9.03**

C

D. Finger Guard Safety Tape

Made of surgical-grade gauze coated with natural latex rubber. Sticks only to itself – not to your skin, hair or clothing. Ideal skin protection for grinding and buffing. Length 90 feet.

Description	Item#	Each
Safety Tape, ¾" Green roll	**816-0203**	**$2.10**
Safety Tape, ¾" pkg. of 16 rolls	**816-0202**	**32.50**
Safety Tape, 1" Green roll	**816-0199**	**3.05**
Safety Tape, 1" pkg. of 12 rolls	**816-0198**	**34.90**

D

Polishing Safety Measures

- Many polishing compounds contain respirable silica or other hazardous ingredients. Be sure to use a dust collector to pull all polishing dust away from your breathing zone, and wear a properly fitted NIOSH respirator rated for the specific dust or chemicals with which you are working.
- Any grinding operation will remove small amounts of metal from the workpiece. To protect your eyes from flying debris, always wear safety goggles or similar eye protection.
- Tie back loose hair and clothing to prevent entanglement in the polishing motor or spindle.
- Firmly twist the buff onto the tapered spindle before turning on the motor, and keep the buff centered and straight to ensure true running. With the spindle correctly installed, turning force of the motor will keep the buff safely mounted during grinding and polishing.
- Always use the lower quarter of the buff to control the action and to prevent the workpiece from being pulled from your grip. Never entwine your fingers with the workpiece; instead hold it in a manner that will prevent your fingers from being harmed should it be pulled from your grip.

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BALDOR
A MEMBER OF THE ABB GROUP

Baldor® Motors

Built to withstand the most demanding workloads. Feature sealed casings to keep internal parts free of dust, prelubricated ball bearings that last for the life of the motor and on/off switch. Backed by a three-year manufacturer's warranty. Can be taken to one of over 3,000 service centers in the USA for quick repairs. UL listed. Made in USA.

A

A. Baldor® #75 Sealed Motor – 3/4 HP; 3,600rpm

Very strong motor for buffs up to 8" in diameter. Designed for continuous operation. Has threaded tapered shaft. Supplied with threaded tapered spindle. Motor height: 10½". Width to spindle end: 15⅞". Shaft height: 7⅛". Ship. wt: 46 lbs.

	Model	Electrical	Base (W x D)	Item#	Each
A.	#75R	220/380/415–440V, 3 Ph, 50/60Hz	8" x 8½"	**854-1070**	**$385.00**
	#75L	220/380/415–440V, 3 Ph, 50/60Hz	8" x 8½"	**854-1077**	**440.00**

Plugs not supplied for 220V models. Other voltages available. Motor speed at 50Hz: 3,000rpm.

B

B. Baldor® #50 Sealed Motor – 1/2 HP; 3,600rpm

Heavy-duty motor for buffs up to 8" in diameter. Designed for continuous operation. Has threaded tapered shaft. Supplied with threaded tapered spindle. Motor height: 11⅝". Width to spindle end: 18". Shaft height: 8⅛". Ship. wt: 39 lbs.

	Model	Electrical	Base (W x D)	Item#	Each
B.	#50R	110V, 1 Ph, 50/60Hz	8" x 8½"	**854-1050**	**$465.00**
	#50R	220V, 1 Ph, 50/60Hz	8" x 8½"	**854-1052**	**495.00**
	#50L	110V, 1 Ph, 50/60Hz	8" x 8½"	**854-1051**	**465.00**

Plugs not supplied for 220V model. Motor speed at 50Hz: 3,000rpm.

C

C. Baldor® #29-1 Sealed Motor – 1/2 HP; 3,600rpm

Double-spindle heavy-duty motor for buffs up to 8" in diameter. Has ⅝" diameter straight shafts. Supplied with two tapered spindles. Motor height: 11½". Shaft height: 8⅛". Ship. wt: 51 lbs.

Electrical	Width to Spindle Ends	Base (W x D)	Item#	Each
110V, 1 Ph, 50/60Hz	29"	8" x 8½"	**854-1250**	**$595.00**

Motor speed at 50Hz: 3,000rpm.

D

D. Baldor® #16 Sealed Motor – 1/2 HP; 3,450rpm

Sealed double-spindle motor for buffs up to 6" in diameter. Slightly tapered ⅜" shaft tips allow quick change of chucks and hold spindles true, preventing buff wobble. Supplied with two Ritter friction-fit tapered spindles. Shaft height: 5". Ship. wt: 37 lbs.

Electrical	Width to Spindle Ends	Base (W x D)	Item#	Each
115V, 1 Ph, 60Hz	20¼"	6½" x 7½"	**854-1254**	**$395.00**

E

E. Baldor® #25 Sealed Motor – 1/4 HP; 3,450/1,725rpm

Sealed double-spindle two-speed motor for buffs up to 6" in diameter. Slightly tapered ⅜" shaft tips allow quick change of chucks and hold spindles true, preventing buff wobble. Supplied with two Ritter friction-fit tapered spindles. Shaft height: 5¼". Ship. wt: 37 lbs.

Electrical	Width to Spindle Ends	Base (W x D)	Item#	Each
115V, 1 Ph, 60Hz	20¼"	6½" x 7½"	**854-1030**	**$395.00**

F
G
H
I
J

F-J Arbors

Used to mount wheels with ½" arbor holes onto polishing or lapping motors.

	Description	I.D. R or L	For Wheel Thickness	Overall Length	Item#	Each
F.	For straight shafts. Setscrews.	½"L	1"	4¼"	**840-4500**	**$26.75**
G.	For straight shafts. Setscrews.	½"R	1"	4¼"	**840-4550**	**26.75**
H.	For #29-1, Split Lapping Machine.	⅝"L	1½"	6"	**840-4660**	**34.95**
I.	For #29-1.*	⅝"R	1½"	7"	**840-4668**	**33.95**
J.	For #50, #75R.**	R	1½"	5¾"	**840-4670**	**33.95**

**Has extended tapered spindle for cloth buffs.*
***Threaded and tapered.*

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A. Quatro Cool Blue Single-Spindle Motor – 3,450/1,725rpm

Single-spindle motor for buffs up to 8" in diameter. Features an open casing with filter for resistance to overheating. Has ½" diameter straight shaft. Supplied with tapered spindle. Electrical: 115V, 1 Ph, 60Hz. Motor height: 9¼". Shaft height: 6⅜". Ship wt: 25 lbs. Made in Canada.

	Model	Width to Spindle End	Base (W x D)	Item#	Each
A.	1/2 HP	14¼"	7¼" x 8½"	**854-1086**	**$339.00**
	3/4 HP	14¼"	7¼" x 8½"	**854-1088**	**349.00**

A

B. Quatro Cool Blue Double-Spindle Motor – 3,450/1,725rpm

Double-spindle motor for buffs up to 8" in diameter. Features an open casing with filter for resistance to overheating. Has ½" diameter straight shafts. Supplied with two tapered spindles. Electrical: 115V, 1 Ph, 60Hz. Motor height: 9¼". Shaft height: 6⅜". Ship wt: 25 lbs. Made in Canada.

	Model	Width to Spindle Ends	Base (W x D)	Item#	Each
B.	1/4 HP	21½"	7¼" x 8½"	**854-1085**	**$275.00**
	1/2 HP	21½"	7¼" x 8½"	**854-1087**	**369.00**
	3/4 HP	21½"	7¼" x 8½"	**854-1089**	**410.00**

B

C. #15 Sealed Motor – 1/2 HP; 3,450rpm

Sealed double-spindle motor with ⅝" shafts. Supplied with two tapered spindles. Shaft height: 5". Ship. wt: 29 lbs. Taiwan.

Electrical	Width to Spindle Ends	Base (W x D)	Item#	Each
110V, 50/60Hz	21½"	7¼" x 6⅝"	**854-1265**	**$299.00**

Motor speed at 50Hz: 3,000rpm.

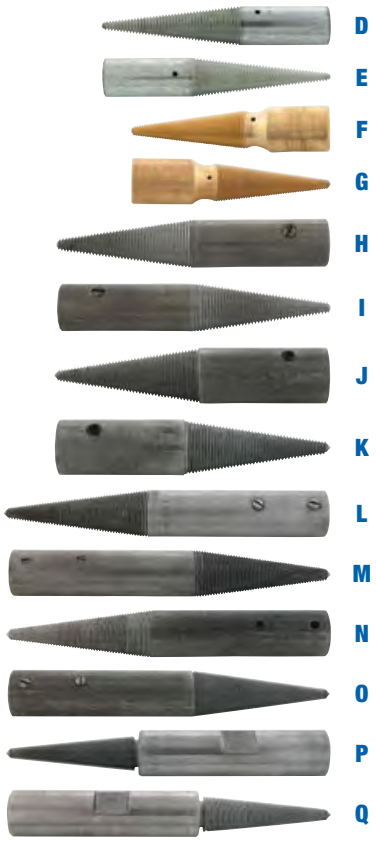
C

D-Q Tapered Spindles

Used to mount soft buffs onto polishing or lapping motors.

	Description	I.D. R or L	Thread Length	Overall Length	Item#	Each
D.	For #16, #25. Ritter left taper friction fit. No setscrews.	L	2⅝"	3⅝"	**840-5000**	**$9.85**
E.	For #16, #25. Ritter right taper friction fit. No setscrews.	R	2⅝"	3⅝"	**840-5050**	**9.85**
F.	For #16, #25. Baldor left taper friction fit, brass. No setscrews.	L	2"	3¼"	**840-5055**	**26.45**
G.	For #16, #25. Baldor right taper friction fit, brass. No setscrews.	R	2"	3¼"	**840-5056**	**26.45**
H.	For straight shafts. Setscrews.	½"L	2⅝"	3½"	**840-5200**	**9.95**
I.	For straight shafts. Setscrews.	½"R	2⅝"	3½"	**840-5250**	**10.95**
J.	For #29-1, #15. For straight shafts. Setscrews.	⅝"L	2⅝"	4 3/16"	**840-5300**	**15.25**
K.	For #29-1, #15. For straight shafts. Setscrews.	⅝"R	2⅝"	4 3/16"	**840-5350**	**15.25**
L.	For straight shafts. Setscrews.	½"L	2⅝"	6"	**840-5363**	**32.50**
M.	For straight shafts. Setscrews.	½"R	2⅝"	6"	**840-5362**	**32.50**
N.	For #29-1, #15, Split Lapping Machine. For straight shafts. Setscrews.	⅝"L	2⅝"	6"	**840-5361**	**29.95**
O.	For #29-1, #15. For straight shafts. Setscrews.	⅝"R	2⅝"	6"	**840-5360**	**29.95**
P.	For #50L, #75L. No setscrews.*	L	2⅝"	6"	**840-4710**	**25.00**
Q.	For #50R, #75R. No setscrews.*	R	2⅝"	6"	**840-4700**	**25.00**

Also for Whirlwind and Red Wing motors. Threaded and tapered.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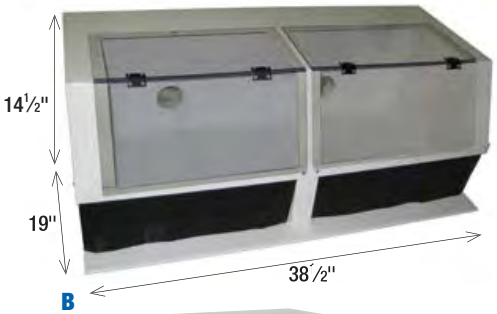
A. Quatro Clearview Hood

Helps you reclaim more precious metal and keeps your shop cleaner. Features solid metal construction with top and front made of durable acrylic for optimal viewing of polishing operations. Includes rubber sweeper strips in front and at the spindle inlet to provide maximum containment of precious metal and compound dust. Works on left or right side of polishing motor. Has 3" rear inlet for dust collector hose (hose clamp included). Available with or without metal collection drawer with wipe-clean enamel finish and LED lighting (drawer can also be easily retrofitted to any Clearview Hood). Measures 18"W x 18"D x 17"H with drawer and 15"W x 17"D x 14½"H without drawer. Assembly required. Made in Canada.

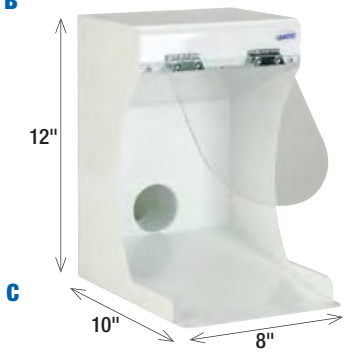
	Description	Item#	Each
	Clearview Hood with Drawer, Mesh Bottom and Light	**854-2188**	**$390.00**
A.	Clearview Hood only	**854-2083**	**289.00**
	Clearview Metal Collection Drawer (for retrofit)	**854-2097**	**102.00**
	Clearview Replacement Sweeper Strips, pair	854-2186	27.00



B. Quatro Double Heavy Duty Hood

The wide body hood allows for more room to work (38"W x 20"D x 14½" or 15"H) in addition to providing a containment area for dust and grindings. The LED lighted interior provides a bright, clear view of your work. Attach your dust collector to 3" ports in the bottom or in the back of the unit. The standard inlet ports can allow you to hook up a hose to the back and the bottom for additional capture of your precious metals. Predrilled to accommodate the Quatro Cool Blue Polishing motors see p. 401. Constructed of heavy gauge metal and finished in a white powder coating the hood is designed for optimum capture of your dust and grindings and built with safety and durability in mind.

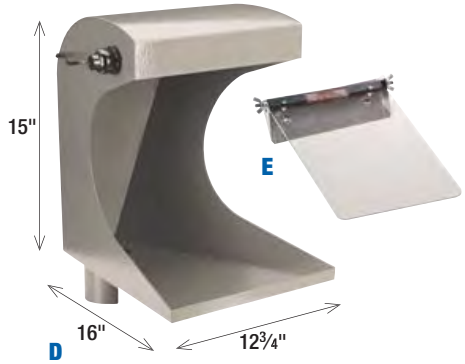
Description	Dimensions	Wt.	Item#	Each
B. Hood with Base	38½"W x 19"D x 15"H	58	**854-1476**	**$950.00**
Hood (No Base)	38½"W x 17"D x 14½"H	40	**854-1477**	**820.00**



C. Quatro Fluorescent Jeweler's Hood with Shield

Powder-coated heavy-gauge metal hood with ⅛" thick clear plastic shield for protection from debris and dust, fluorescent light fixture with on/off switch, complete with bulb and 3" screened rear inlet. Works on either side of motor. Hood measures 8"W x 11½"D x 12"H. Shield measures 7.5" x 6". Made in Canada.

Description	Item#	Each
Fluorescent Jeweler's Hood with Shield	**854-2089**	**$123.00**



D, E Incandescent Jeweler's Hood

Powder-coated heavy-gauge metal hood with two incandescent light fixtures and 3" screened rear inlet. Requires two 60W incandescent bulbs. Works on either side of motor. Measures 12¾"W x 16"D x 15"H.

Adjustable shield protects the user from flying particles. Fits on any jeweler's hood. Meets OSHA requirements. Made of clear acrylic. Measures 6"W x 9"H x ⅛" thick.

	Description	Item#	Each
D.	Incandescent Jeweler's Hood	**854-3104**	**$99.50**
E.	Jeweler's Hood Shield	**854-3105**	**26.95**

F. Quatro Blast Gate

A 3" gate used for multi-station collection. Install to shut off suction at one station and increase suction at others.

Description	Item#	Each
Blast Gate, 3"	**854-1518**	**$47.00**

G. Quatro Hose Adapter

Heavy duty plastic adapter fits 2½" hose and widens to 3". Use to attach any dust collector with 1½" inlet (such as Quatro Basic and Gold Vault) to a 3" hose or hood opening.

Description	Item#	Each
Quatro Hose Adapter (1.5" to 3")	**854-1519**	**$13.00**

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A. Quatro Air Wedge Collection Port

A versatile collection port for recovering precious metal dust right at your bench. Pulls dust and contaminants away from your face before you breathe them in. Perforated base ensures particles stay within the work area. Clear plastic shield lifts off for easy access to tray below. Flange can be positioned under or behind unit for connection to hose leading to dust collector. Blast gate lets you cut off airflow when unit is not in use. Measures 12"W x 10"D x 10"H with 3" diameter inlet. Made in Canada.

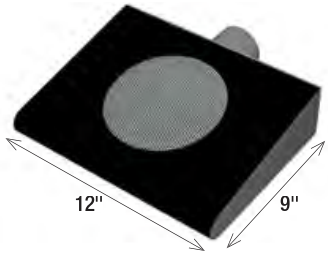
Description	Item#	Each
Air Wedge Collection Port	**854-1386**	**$186.00**

A

B. Quatro Airport Collection Port

Allows you to recover precious metal dust right at your bench. Features ergonomic cushioned design. Measures 12"W x 9½"D x 3¼"H with 3" diameter inlet.

Description	Item#	Each
Airport Collection Port	**854-1516**	**$135.00**

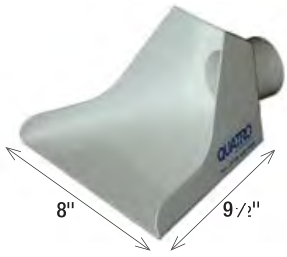


B

C. Quatro Fishmouth Collection Port

Allows you to recover precious metal dust right at your bench. Features powder-coated heavy-duty steel construction. Measures 8"W x 9½"D x 5"H with 3" diameter inlet. Made in Canada.

Description	Item#	Each
Fishmouth Collection Port	**854-1517**	**$95.00**



C

D-F Flexible Hose, Hose Clamp and Duct Tape

Use our heavy-duty 3" diameter hose to connect dust collection equipment. Features low-profile ribs for maximum suction. Sold by the foot. Secure with hose clamps or duct tape.

	Description	Item#	Each
D.	Flexible Hose, 1' length	**854-3050**	**$7.40**
E.	Hose Clamp	**854-3060**	**4.25**
F.	Duct Tape, 1⅞"W x 150'L Roll	**854-3120**	**7.25**

D

E

F

G. Arbor with Bur Chuck

For right side of motor only. Fits ½" shafts. Features keyless three-jaw chuck for holding up to ¼" shanks. Measures 4" long.

Description	Item#	Each
Arbor with Bur Chuck	**840-4150**	**$33.95**

G

H. Mandrel Chuck

For right side of motor. Screws snugly onto tapered spindle. Holds 3/32" and ⅛" shanks. Measures 3½" long.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Mandrel Chuck	**840-4250**	**$8.90**	**$8.46**	**$8.01**

H

I. Polishing Gizmo

Made of select hardwood, Gizmo provides a safer method of holding chains, bracelets and rings for polishing. Wrap the chain around the Gizmo and hold it to the polishing wheel. Its large diameter exposes a greater length of chain to the wheel, allowing for faster and more thorough polishing. Get one Gizmo for each compound to avoid contamination. Measures 2½" dia. x 6½"L. Accommodates ring sizes 3–17.

Description	Item#	Each
Polishing Gizmo	**812-0360**	**$10.95**

I

J, K Wooden Drill Sticks

Safety devices for holding rings while drilling or polishing. You can also wrap chain around wood drill sticks while working. The 6" stick tapers from 1" to ⅜", and the 7" stick tapers from 1⅛" to ⅜".

				EACH Prices		
	Description	Length	Item#	3pc 3-9	12-141	144+
J.	Stick #6	6"	**816-1710**	**$1.85**	**$1.57**	**$1.30**
K.	Stick #7	7"	**816-1700**	**2.29**	**1.95**	**1.60**

3pc *Three-piece minimum; please order in multiples of three.*

J

K

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JoolTool™ Finishing Systems

The space-saving do-it-all finishing system!

Made in the USA

Provides first-rate lapping, polishing, grinding, sharpening, sanding and deburring results. Reduces or eliminates the need for bench grinders, belt sanders, sharpeners and the like.

The JoolTool has a compact, ergonomic vertical design with 17° tilt toward the user for comfortable operation, rugged construction and powerful motor for high torque at all speed settings. Accommodates discs and wheels up to 3" in diameter. Electrical: 110/220V. Measures 8" dia. x 12"H with 1½" dia. vent for optional vacuum hookup. Operating speed: 500–5,000rpm.

Available in 4 different kits. All backed by a one-year warranty. Made in USA.

View instructional video at www.gesswein.com

A

B

C

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F

A. JoolTool™ Finishing System Deluxe Set

Includes:

- JoolTool Professional Set (Below): Plus:
- Ninja Diamond Premium Pack (6)
- 4 3M Diamond Ninja Micro Film
- 6 (additional) Ninja Disc Backpads
- 6 (additional) Ninja Rubber Backpads Soft

Description	Item#	Each
JoolTool™ Deluxe Set	**854-1759**	**$785.00**

B. JoolTool™ Finishing System Professional Set

Includes:

- JoolTool Beginner Set (Below): Plus:
- 10 3M Disc 3" Red #220 w/ Hub
- 10 3M Disc 3" Blue #400 w/ Hub
- 3 (additional) Ninja Disc Backpads
- 3M Scotchbrite Ninja Disc 6A MD
- 3M Scotchbrite Ninja Disc 2S F
- 3M Scotchbrite Ninja Cluster
- 3 (additional) Ninja Rubber Backpads Soft

Description	Item#	Each
JoolTool™ Professional Set	**854-1757**	**$530.00**

C. JoolTool™ Finishing System Beginner Set

Includes:

- JoolTool Jewelers Original Set (Below) - Plus:
- 3M Vetrap Bandage Tape 2" x 15' Blue
- 3 (additional) Ninja Disc Backpads
- 10 3M Disc 3" Peach 6Mil w/ Hub
- 3 Ninja Rubber Backpads Soft
- 10 3M Disc 3" Light Green 1Mil w/ Hub

Description	Item#	Each
JoolTool™ Beginners Set	**854-1755**	**$360.00**

D. JoolTool™ Jewelers Package – The Original System

Basic set includes JoolTool power tool, Ninja Disc Backpad, three Ninja Purple Discs (one of each grit), eight Ninja Trizact Discs (two of each grit), Ninja 2½" Buff & Polish Felt Disc, JoolTool White Compound, tapered spindle, Allen wrench, 5A fuse and demo CD-ROM.

	Description	Item#	Each
D.	JoolTool™ Basic Set	**854-1775**	**$279.99**

E, F JoolTool™ White Compound and Flexible Shaft Attachment

High-quality ultra-fine polishing compound delivers outstanding performance. Smooth enough for polishing gold yet tough enough for platinum & stainless steel. For best results use with the Ninja See-Thru Felt Disc, see p. 405.

Flex shaft attachment also available for using smaller tools with all flex shaft handpieces except 25H, 30H and 44HT (see pp. 438-440 for handpieces).

	Description	Item#	Each
E.	5.75 oz. Polishing Compound	**854-1845**	**$14.99**
F.	Flexible Shaft Attachment	**854-1819**	**39.99**

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A, B Ninja™ Disc Backpad and Disc Cushion

Uniquely designed hard backpad and soft cushion for holding all Ninja Discs, which are backed with adhesive and cut to match. Purchase extra backpads to make disc changes fast and easy and to prevent abrasive damage. Sandwich resilient polyurethane cushions between discs and backpads to eliminate chatter and conform better to contoured areas. Measure 3" diameter. Max. operating speed: 3,650rpm.

Description	Item#	Pkg. of 3
A. Disc Backpad	**854-1777**	**$38.99**
B. Disc Cushion	**854-1798**	**32.99**

A

B

C. 3M™ Ninja™ Scotch-Brite™ Discs

Scotch-Brite fiber discs glued to Ninja Backpads. Choose from three grades: coarse for sprue removal, medium for cleaning castings and fine for prepolishing. Conform to workpieces to prevent flat spots. Measure 3" diameter. Max. operating speed: 3,650rpm.

Grade	Coarse	Medium	Fine	Each
Item#	**854-1806**	**854-1790**	**854-1807**	**$24.99**

C

D. 3M™ Ninja™ Purple Discs

Self-adhesive fast-cutting discs for use on a variety of metals, including platinum, gold, silver, brass, steel and copper. Ideal for high-speed grinding, sprue removal and tool sharpening. Measure 3" diameter. Max. operating speed: 3,650rpm.

Grit	80	120	220	Pkg. of 6
Item#	**854-1778**	**854-1779**	**854-1788**	**$16.99**
9-Piece Set (3 of each grit)			**854-1791**	**26.99**

D

E-H 3M™ Ninja™ Trizact™ Discs

Self-adhesive Trizact discs for use on a variety of metals and materials, including platinum, gold, silver, brass, copper, acrylics, solid surfaces such as Corian and nonprecious and semi-precious stones such as opals and turquoise. Also excellent for sharpening chisels, gravers, knives and other tools. Measure 3" diameter. Max. operating speed: 3,650rpm.

Color/Micron	Green/35	Red/20	Blue/10	Orange/5	Pkg. of 6
Item#	**854-1784**	**854-1785**	**854-1786**	**854-1787**	**$17.99**
12-Piece Set (3 of each grit)				**854-1793**	**27.99**

E

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H

I, J 3M™ Ninja™ Lapping Film Discs

Self-adhesive discs made of finely graded abrasive bonded onto film backing. Great for final polishing in place of felt and compounds. Must be used with Ninja Disc Cushion and Backpad (854-1777 and 854-1798 see above). Measure 3" diameter. Max. operating speed: 3,650rpm.

Color/Micron	Pink/3	Lime/1	Pkg. of 6
Item#	**854-1820**	**854-1821**	**$17.99**
6-Piece Set (3 of each grit)		**854-1795**	**17.99**

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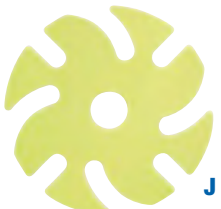
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K. 3M™ Ninja™ Buff & Polish Felt Disc

Self-adhesive felt disc for use with standard cutting and polishing compounds to bring your jewelry parts to a mirror shine while maintaining perfect geometry. Measures 3" diameter. Max. operating speed: 3,650rpm.

Description	Item#	Each
Buff and Polish Felt Disc	**854-1837**	**$20.50**

L. 3M™ Ninja™ Flexible Diamond Pack

This industrial diamond abrasive is perfect for applications requiring a heavy bite. The open-dot pattern on polyester backing provides excellent flatness control on metal work applications. Expect long life if used wet.

For Carbide Tools: Sharpen chipped large carbide tools in seconds.

For Lapidary & Watch Crystal: Quickly removes material on stone, metal and composites. Shape and smoothen the surface of any stones, metals and more. Light pressure achieves excellent results when grinding glass & composites. Recommended use with Ninja Cushion (854-1798 see above). Available as a kit or individual grades: Max operating speed: 3,650 rpm.

Grit/Micron	80/250	120/125	220/74	Each
Item#	**854-1851**	**854-1852**	**854-1853**	**$22.99**
3-Piece Set (one of each grit)			**854-1850**	**49.99**

K

L

All prices subject to change without notice.

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A. Split Lapping Machine

Features 1/2 HP ball-bearing motor mounted at a 45° angle for great visibility. Lets you see work surface. Includes heavy-gauge steel hood with 3" inlets for your dust collector, tapered spindle and adjustable light. Measures 15"W x 18"D x 20"H. Electrical: 110V, 6.2A, 60Hz (220V, 50Hz available). Max. operating speed: 3,450rpm. Accepts 6", 7" or 8" split laps (see below and p. 99). To improve visibility of work in progress, mark split lap bevels with black crayon (sold separately).

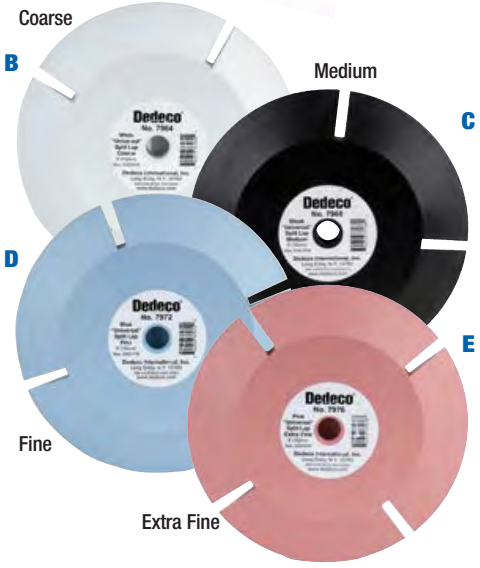
	Description	Ship. Wt.	Item#	Each
A.	Split Lapping Machine	46 lbs.	**854-1802**	**$399.00**
	Optional Black Crayon		**810-0425**	**2.39**
	Replacement Steel Hood		854-1805	150.00
	Replacement Tapered Spindle		840-5361	29.95

A

B-E Dedeco® Silicone Split Laps

Designed to replace felt laps and rouge, these split laps provide a superior finish on gold and other metals. Each wheel is impregnated with silicon-carbide abrasive. Available in 4 color-coded grits. Max operating speed: 3,500rpm. All are 6" diameter with ½" arbor hole.

	Color	Grit	Application	Item#	EACH
B.	White	120 (C)	For removing deep scratches	**145-0180**	**$51.95**
C.	Black	180 (M)	For smoothing and removing light scratches	**145-0181**	**51.95**
D.	Blue	220 (F)	For high-luster polishing	**145-0182**	**51.95**
E.	Pink	400 (XF)	For super high-luster polishing and final finish	**145-0183**	**51.95**



F-I Gesswein/Paramount® Felt Split Laps

Made of pure wool felt that has been steamed to shrink and thicken, then pounded into specific hardnesses. Feature consistent density throughout for identical polishing results from wheel to wheel, even wear and three to five times the life of conventional split laps. All have pinhole centers. Max. operating speed: 3,450rpm. Made in USA.

				EACH Prices		
Dia. x Thick	Type	Item#	1-5	6-11	12+
F. 4" x ½"	Medium	**285-8130**	**$38.65**	**$34.79**	**$32.21**
	Hard	**285-8131**	**41.00**	**36.90**	**34.17**
	Rock-Hard	**285-8132**	**49.05**	**44.15**	**40.87**
G. 6" x ½"	Medium	**285-6123**	**42.25**	**38.03**	**35.21**
	Hard	**285-6125**	**45.30**	**40.77**	**37.75**
	Rock-Hard	**285-6127**	**57.25**	**51.53**	**47.71**
	Flint-Hard	**285-6128**	**65.15**	**58.64**	**54.29**
H. 7" x ½"	Medium	**285-7120**	**57.00**	**51.30**	**47.50**
	Hard	**285-7121**	**66.70**	**60.03**	**55.58**
	Rock-Hard	**285-7122**	**74.70**	**67.23**	**62.25**
	Flint-Hard	**285-7123**	**92.70**	**83.43**	**77.25**
I. 8" x ½"	Medium	**285-8123**	**70.00**	**63.00**	**58.33**
	Hard	**285-8125**	**82.25**	**74.03**	**68.54**
	Rock-Hard	**285-8127**	**94.00**	**84.60**	**78.33**
	Flint-Hard	**285-8128**	**102.50**	**92.25**	**85.41**

Polishing Safety Measures

- Many polishing compounds contain respirable silica or other hazardous ingredients. Be sure to use a dust collector to pull all polishing dust away from your breathing zone, and wear a properly fitted NIOSH respirator rated for the specific dust or chemicals with which you are working.
- Any grinding operation will remove small amounts of metal from the workpiece. To protect your eyes from flying debris, always wear safety goggles or similar eye protection.
- Tie back loose hair and clothing to prevent entanglement in the polishing motor or spindle.
- Firmly twist the buff onto the tapered spindle before turning on the motor, and keep the buff centered and straight to ensure true running. With the spindle correctly installed, turning force of the motor will keep the buff safely mounted during grinding and polishing.
- Always use the lower quarter of the buff to control the action and to prevent the workpiece from being pulled from your grip. Never entwine your fingers with the workpiece; instead hold it in a manner that will prevent your fingers from being harmed should it be pulled from your grip.

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A. Quatro SolderPure Fume and Particulate Extractor

Ideal for brazing, dedrossing, electroforming, electroplating and soldering applications. Removes acid activator, electrocleaner, rhodium, solder, solvent and wax fumes from the air before you breathe them (not suitable for cyanide).

Features a four-stage filtration system that captures fumes and particulate down to 0.3 micron: prefilter captures large particles to extend life of three subsequent filters; high-capacity dust filter captures small particulate; advanced refillable media filter formulated for specific applications captures fumes; HEPA filter captures smallest particulate down to submicron levels.

Returns 99.97% clean air to your workplace, making outside ventilation unnecessary. Includes capture hood with flex arm, which can be flexed and rotated 360° to accommodate any soldering or plating layout. Includes table bracket and 8' flex hose that can be cut to desired length for remote location as well as casters for mobility. Installs quickly and easily. Backed by a two-year manufacturer's warranty. Made in Canada.

Specifications:

Airflow: 125 CFM
Noise Level: 52 dBA
Electrical: 120V, 1A, 60Hz
Dimensions: 13"W x 16"D x 20"H
Net Wt.: 47 lbs.

	Description	Item#	Each
	SolderPure for Rhodium, Electrocleaner and Soldering Fumes	**854-1375**	**$1,325.00**
A.	SolderPure for Rhodium and Electrocleaner Fumes	**854-1387**	**1,283.00**
	SolderPure for Soldering and Wax Fumes	**854-1376**	**1,445.00**
	Optional Blast Gate, 3"	854-1374	41.00
	Optional Odor Filter	854-1378	149.00
	Replacement Prefilters (6)	854-1393	25.00
	Replacement Dust Filters (6)	854-1394	48.00
	Media Refills (4) for rhodium fumes	854-1396	169.00
	Media Refills (4) for soldering fumes	854-1409	122.00
	Replacement HEPA Filter	854-2093	128.00

A

See page 246 for Quatro Fresh-Air Series HEPA Air Purifiers

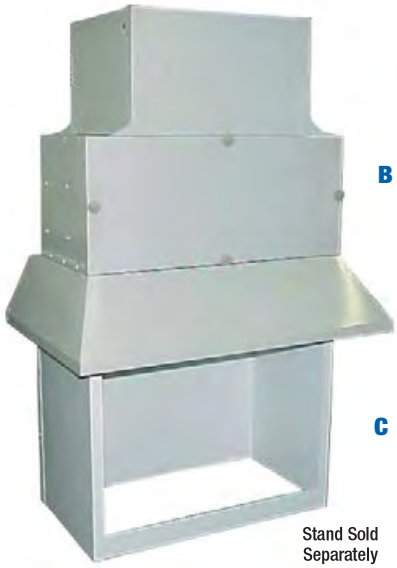
B, C Quatro Ductless Fume Hoods – For those without access to outside ductwork.

Units feature a two-stage filtration system that captures fumes, then recirculates clean air back into the room to save on heating and AC costs. Burnout fume hood installs right on wall behind burnout furnace. Rhodium fume hood installs directly over plating area. Each has a metal-frame filter container that holds an activated charcoal media mixture specifically formulated for the respective application. Backed by a two-year manufacturer's warranty. Made in Canada.

Specifications:

Electrical: 120V, 1.6A, 60Hz, Dimensions: 28"W x 18"D x 26"H, Net Wt.: 50 lbs.

	Description	Item#	Each
B.	Burnout Fume Hood	**854-1525**	**$1,164.00**
	Rhodium Fume Hood	**854-1526**	**1,164.00**
	Replacement Dust Filters (8)	854-2103	76.00
	Stage-2 Media Refills (4) for both fumes	854-1409	122.00
	Stage-3 Media Refills (4) for burnout fumes	854-1527	213.00
	Stage-3 Media Refills (4) for rhodium fumes	854-1396	169.00
C.	Optional Stand	**854-1524**	**299.00**



B

C

Stand Sold Separately

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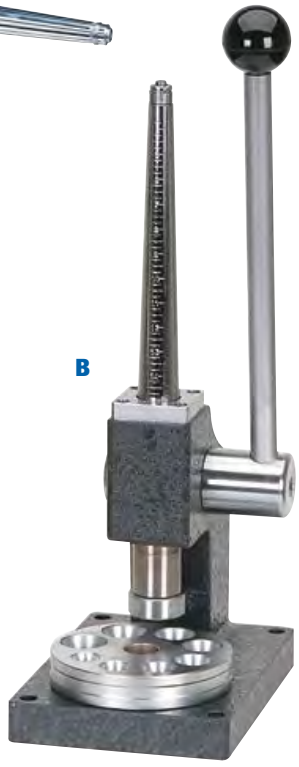
A

A. Kagan Wedding Ring Sizer

One of the finest sizers available. Enlarges and reduces on the downstroke, requiring less effort than other models. Features eight-spline mandrel for enlarging rings up to size 14 and reversible reducer plate with 12 countersunk dies (six on each side) for gently compressing rings to smaller sizes. Can be bolted to bench or used as a portable sizer. Measures 16"L x 18"H. Ship. Wt: 17¾ lbs. Made in USA.

	Description	Item#	Each
A.	Kagan Wedding Ring Sizer	**856-0350**	**$599.00**
	Replacement Eight-Spline Mandrel	856-0355	180.00



B

B. Premium Wedding Ring Sizer

Sizes with almost no effort. Enlarges on the upstroke and reduces on the downstroke. Features six-spline mandrel for enlarging rings up to size 15 and reversible reducer plate with 16 countersunk dies (eight on each side) for gently compressing rings to smaller sizes. Also available without reducer plate for use as an enlarger only. Can be bolted to bench or used as a portable sizer. Ship. Wt: 28 lbs. Made in Italy.

	Description	Item#	Each
B.	Premium Wedding Ring Sizer	**856-0375**	**$375.00**
	Wedding Ring Sizer w/o Reducing Plate	**856-0370**	**355.00**
	Reducing Plate	**856-0376**	**112.00**
	Replacement Six-Spline Mandrel	856-0377	148.00

C

C. Durston Wedding Ring Stretcher and Reducer

The Durston high-quality ring stretcher ensures exceptionally accurate ring sizing for non-ferrous (gold, silver, platinum and palladium etc.) rings and bands from US size 2 to 14. Includes double sided reducing plate for bands up to 12mm wide. Measures 16¾" tall with a 6¾" by 4¾" base which has holes for securing to a bench or worktable (Mounting hardware not included). Ship. Wt: 12 lbs. Made in England.

	Description	Item#	Each
C.	Durston Wedding Ring Sizer	**856-0385**	**$361.00**
	Replacement Eight Spline Mandrel	856-0386	**120.00**

D

D. Kagan Stone-Set Ring Stretcher

Enlarges stone-set rings using parallel rollers to stretch the shank without disturbing the stone. Includes eight dies for knife-edge, half-round, oval and flat shanks. Also works as a mini rolling mill for making filigree wire. Can be bolted to a workbench. Ship. Wt: 8¾ lbs. Made in USA.

	Description	Item#	Each
D.	Kagan Stone-Set Ring Stretcher	**856-0300**	**$599.00**
	Replacement Die Set	856-0360	395.00

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A. PEPETOOLS Ring Bender

Heavy-duty tool steel unit for bending flat, oval and half-round blanks up to 4mm thick. Includes two precision-machined, hardened steel forming dies that are stepped to accommodate a variety of ring sizes and blanks. Ship. Wt: 10½ lbs. Imported.

Description	Item#	Each
PEPETOOLS Ring Bender	**856-0381**	**$139.00**

A

B, C PEPETOOLS Super Ring Bending/Forming Set

New and improved with extra heavy-duty posts and dies! The most versatile ring bending set on the market. Makes both round and angled bends. Includes bending unit, seven dies and seven matching mandrels, steel block with screws that can be fastened to bottom of unit for vise mounting and an attractive aluminum powder coated base for easy part selection and storage.

Eccentric base and handle provide high torque, requiring user to exert less effort to bend metal. Supplied with 12, 14, 16, 20 and 22mm round dies and 60° and 90° angled dies. Made in USA.

Use with optional 5 piece die set to shape patterned metal without the scratching and distortion that often occur with standard steel dies. Die set includes 5 wear-resistant, low-friction thermoplastic polymer dies in sizes 12, 14, 16, 20 and 22mm round. Made in USA.

	Description	Item#	Each
B.	PEPETOOLS Super Ring Bender 2	**856-0418**	**$235.00**
C.	Optional 5 piece Die Set	**810-2021**	**75.00**

B

C

Ring Bender not included with 5 piece Die Set.

D, E Jump Ringer™ System

A money-saving system for making your own jump rings in seconds!

Make perfectly uniform jump rings with inside diameters from 1.5mm to over 25.4mm (1"). Cuts plain and fancy gold, silver, gold-filled, copper, brass, aluminum and niobium wire. Will not cut iron, steel, titanium or platinum wire.

Features precision-engineered winder with greased nylon bearings for ultra-smooth action. Winds stock wire into a coil, which you then place in a holder and cut apart into jump rings using your flexshaft and a #30 handpiece with the supplied rotary sawblade. Has unique safety guard/guide that protects your fingers during cutting and ensures jump rings are cut straight and on-center.

Jump Ringer System includes winder, 5" coil, coil holder, safety guard/guide for your #30 handpiece, rotary sawblade with mandrel, chuck key and three round steel mandrels in 0.094", 0.141" and 0.234" diameters. **Works with Mandrel Sets (see p. 447) to make jump rings in a wide range of sizes and shapes.** If you have your own method of cutting, you can purchase the Winding Set separately. Includes winder, chuck key and three round steel mandrels. Or if you have your own method of winding, you can purchase the Cutting Set separately. Includes coil holder, safety guard/guide for your #30 handpiece and rotary sawblade with mandrel.

	Description	Item#	Each
D, E	Complete Jump Ringer System (D and E)	**815-2011**	**$348.00**
D.	Jump Ringer Winding Set	**815-2014**	**124.75**
E.	Jump Ringer Cutting Set	**815-2013**	**248.90**
	Replacement Sawblade	815-2015	12.99

See page 447 for Mandrel Sets.

D

E

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Made in the USA

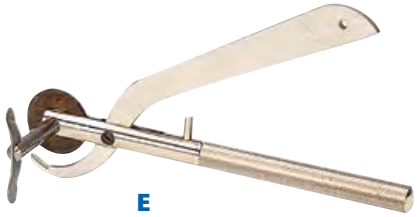
View instructional video at www.gesswein.com

A

B

C

D



E

F

A. PEPETOOLS Jump Ringer JRM2 – Better Than Ever!

The perfect set for winding your own jump rings easily in consistent sizes. Use the Rotary Winder and winding rods to wrap wire into a coil, which can then be cut into jump rings using the circular saw-blade in your #30 handpiece. Ship. Wt. 8lbs. Made in USA.

- Includes Rotary Winder, 20 steel winding rods, circular sawblade, handpiece holder, precision machined cutting box, and aluminum base (9"L x 4½"W).
- Winding rods are 4" long in mm sizes: 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, and 12.0mm.
- Included 1¼" circular sawblade cuts up to 18 gauge/1.0mm soft wire. Optional 1½" sawblade cuts up to 16 gauge/1.2mm.

	Description	Item#	Each
A.	PEPETOOLS Jump Ringer	**856-0445**	**$189.00**
	Optional Circular Sawblade 1½"	**856-0443**	**15.00**
	Replacement Circular Sawblade 1¼"	856-0442	12.00

B. GRS® Ring Size Cutter

This unique unit quickly cuts off a precise amount of ring shank without sawing. Removes metal in one whole piece so there are no particles to lose, saving you time and money. Results in perfectly parallel sides for neat and easy soldering. Includes seven different heat-treated steel blades that can be changed by hand in seconds without tools. Made in USA.

	Description	Item#	Each
B.	Ring Size Cutter	**812-1270**	**$298.00**
	½-Size Blade	812-1272	10.29
	¾-Size Blade	812-1273	10.29
	1-Size Blade	812-1274	10.29
	1¼-Size Blade	812-1275	10.29
	1½-Size Blade	812-1276	10.29
	1¾-Size Blade	812-1277	10.29
	2-Size Blade	812-1278	10.29
	7-Piece Blade Set (one each)	812-1271	74.95

C. Beaver Ring Cutter

Safely cuts ring shanks while on or off finger. Has guarded blade with satin chrome finish and molded plastic handle. Entire unit can be sterilized. Measures 5⅞" long.

	Description	Item#	Each
C.	Beaver Ring Cutter	**812-0900**	**$178.25**
	Replacement Blade	812-1000	26.40
	Replacement Hub	812-0950	19.30

D. Premium Ring Cutting Pliers

Safely cut ring shanks while on or off finger. Have guarded blade, sturdy box-joint construction and plastic-covered handles. Made of durable high-speed steel. Measure 6⅝" long.

	Description	Item#	Each
D.	Premium Ring Cutting Pliers	**812-1249**	**$119.00**
	Replacement Blade	812-1100	39.95

E. French Ring Cutting Pliers

Safely cut ring shanks while on or off finger. Have guarded blade and traditional key. Made of fine steel. Measure 4¾" long.

	Description	Item#	Each
E.	French Ring Cutting Pliers	**812-1251**	**$38.80**
	Replacement Blade	812-1252	15.95

F. Mark-a-Size

Lets you resize rings accurately. Etches exact amount of material to be removed directly onto the ring shank for correct sizing in ¼-size increments from ¼ size up to 3 sizes. Made of tempered steel. Measures only 3"L x 1"W x ¾" thick when closed.

Description	Item#	Each
Mark-a-Size	**816-0170**	**$45.00**

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Gesswein® Power Ring Cutter

Gesswein has created a ring cutter for emerging high-tech metals such as SK Cobalt BioBlu™ 27 and tungsten carbide. A diamond-plated disc is the secret to cutting these metals, as well as platinum, titanium and stainless steel.

Emergency rooms and medical facilities: please note that an ordinary ring cutter cannot cut these tough metals—they are simply too hard. A diamond-plated disc with motorized drive is truly essential. Such a disc will fit on most ring cutters, but in an emergency time is critical, and a dedicated ring cutter eliminates fumbling with time-consuming retrofits. An instructional video is provided at **www.gesswein.com** so you can learn safe cutting techniques for these hard metals. Scan QR code below.

Continued application of water is required while cutting to keep the disc cool, preventing damage from excessive heat. Since the metal is so hard, it cannot be spread, so two cuts are necessary: one on each side of the ring. The diamond handles all the work, so only gentle pressure is required. Power Ring Cutter will remove even the toughest ring in under 4 minutes. Works with most standard power screwdrivers that can accommodate a ¼" hex bit (optional power screwdriver sold separately). A sturdy cutter arm cradles the rotating blade, preventing harm to the finger.

View instructional video at www.gesswein.com

Features:

- Ring cutter pliers
- Two diamond-plated discs with ¼" hex drive for power cutting of hard metals
- Steel sawblade with key drive for manual cutting of soft metals
- Lock nut with T-handle
- Water bottle for lubrication during cutting

	Description	Item#	Each
A.	Power Ring Cutter Set	**812-1210**	**$88.70**
B.	Power Screwdriver	**812-1213**	**27.95**
	Replacement Diamond-Plated Disc	**226-1227**	**19.50**
	Replacement Steel Sawblade	**812-1252**	**15.95**
	Replacement ¼" Hex Drive	**812-1214**	**9.95**
	Replacement Water Bottle	**812-1215**	**1.25**

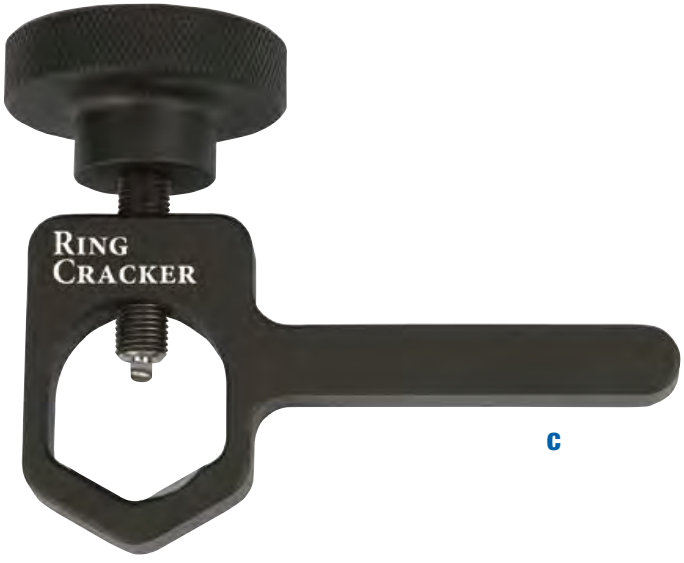
Diamond disc cuts on cobalt, platinum, titanium and stainless steel. Steel blade cuts on gold, silver and other soft metals.

C. Tungsten Ring Cracker – For Ceramic and Tungsten Rings

Ever had a customer come in with a ceramic or tungsten ring that couldn't be removed? Has this concern prevented you from selling these alternative metals? No need to worry, this tool will allow you to crack any ceramic or tungsten ring with no pain to the customer.

Center the Ring Cracker over the ring, tighten the tip (it's not sharp) and turn the knob a few times. These hard metals will crack fairly easily under pressure at a single point. The Ring Cracker is very easy to use. Anybody can assist with the removal of these alternative metals. Includes 2 pairs of safety glasses and illustrated instructions. Shipping Wt: 17 oz.

Description	Item#	Each
Tungsten Ring Cracker	**812-1218**	**$93.95**



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A

A. Wooden Ring Clamp

Double-ended (one square, one round) clamp with thick leather-lined jaws that prevent marring. Securely holds rings and other jewelry pieces while filing, polishing and setting. Includes wedge for adjusting grip. Measures 6½" long. Made in India.

Description	Item#	EACH Prices 1-2	3-9	10+
Wooden Ring Clamp	**812-0300**	**$6.75**	**$6.41**	**$6.08**

B

B. Wooden Ring Clamp with Screw

Spring-loaded wooden ring clamp with brass screw and wing nut for more precise control, leather-lined jaws that prevent marring and rounded clamp end that allows easy pivoting and rotating. Measures 5¼" long. Made in India.

Description	Item#	Each
Wooden Ring Clamp with Screw	**812-0320**	**$4.50**

C

C. Plastic Ring Clamp

High-impact plastic double-ended (one square, one round) clamp with thick leather-lined jaws that prevent marring. Similar in design to our wooden ring clamp. Includes wedge for adjusting grip. Measures 6¼" long. Made in India.

Description	Item#	EACH Prices 1-2	3-9	10+
Plastic Ring Clamp	**812-0400**	**$8.95**	**$8.50**	**$8.06**

D

D. Outside Metal Ring Clamp

Metal ring clamp for holding rings securely from the outside so you can easily file, sand and polish the inside. Measures 6" long.

Description	Item#	Each
External Ring Clamp	**812-0351**	**$29.95**

E

E. Outside/Inside Metal Ring Clamp

Die-cast high-strength 380 aluminum alloy clamp for holding rings securely from either the outside or the inside. Conducts heat away from rings. Holds ring sizes 1–13. Measures 5½" long.

Description	Item#	EACH Prices 1-2	3+
Outside/Inside Metal Ring Clamp	**812-0350**	**$15.95**	**$15.15**

F

F. Inside Wooden Ring Clamp

Economical wooden clamp for holding rings firmly from the inside so the outside can be worked. Won't mar rings. Shaped for a comfortable grip. Holds ring sizes 5–11. Measures 5¾" long.

Description	Item#	Each
Inside Wooden Ring Clamp	**812-0315**	**$10.25**

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RinGenie

Engraving and Setting Tool

Right out of the box, the RinGenie has everything you need to make quick and easy work of layout, engraving, inlaying, stone setting, bright cutting, bead setting and any other task a jeweler or engraver may encounter. Unlike other engraver's blocks, its 360 degree rotating spindle makes it easy to move freely or at finely set intervals providing amazing versatility and unparalleled precision. Plus its numerous mounting options make it easy to approach your work at any angle. Hand and power engravers work equally well with the RinGenie.

No matter what your project demands, the RinGenie is engineered to boost speed and accuracy at every phase of the process.

Work faster, work smarter. Be more productive and more creative with the RinGenie.

A

"The RinGenie doesn't replace any human skills it only aids in helping take the ones that a craftsman has to a higher level by its user friendly way of helping to maneuver the piece one is working on."

Robert N. Vertel, owner of Dokan Jewelry Designs LLC, MI

View instructional video at www.gesswein.com

Features/Benefits:

- Made of aircraft quality aluminum, hard coat anodized for wear resistance, with stainless steel spindles.
- Body measures 4 1/16" wide; 5 3/8" wide including outside adjustment knobs.
- The RinGenie is a money making time saver.
- Layout with precision and speed.
- Accuracy in drilling and milling.
- Precise channel cutting.
- Fine incremental settings with 360 degree rotation.
- A perfect complement to hand or power engravers.
- Easy spindle locking thumb screw
- Use with metal or wax.
- Optional adapter for your BenchMate (see fig. B)
- Optional Side Helper for engraving/setting on sides of rings. (see fig. C)

B BenchMate Adaptor

C Optional Side Helper

Includes:

- Drill/Mill/Layout Assembly Tool
- Scriber Assembly
- 3/32" Diameter Hardened Drill Bushing
- 1 Alignment Plate
- 2 Tightening Rods
- 1 Side Pointer
- 1 Drag Adjustment Screw
- 8 Plastic Collets in sizes 5, 6, 7, 8, 9, 10, 11 and 12
- 16 Aluminum Collets in sizes 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12 and 12.5
- 1 Custom Fitted Wood Case
- Instructional DVD

	Description	Item#	Each
A.	RinGenie	**816-1490**	**$695.00**
B.	Optional BenchMate Adapter	**816-1491**	**74.95**
C.	Optional Side Helper	**816-1492**	**84.95**

For Microscopes See pp. 348-349.

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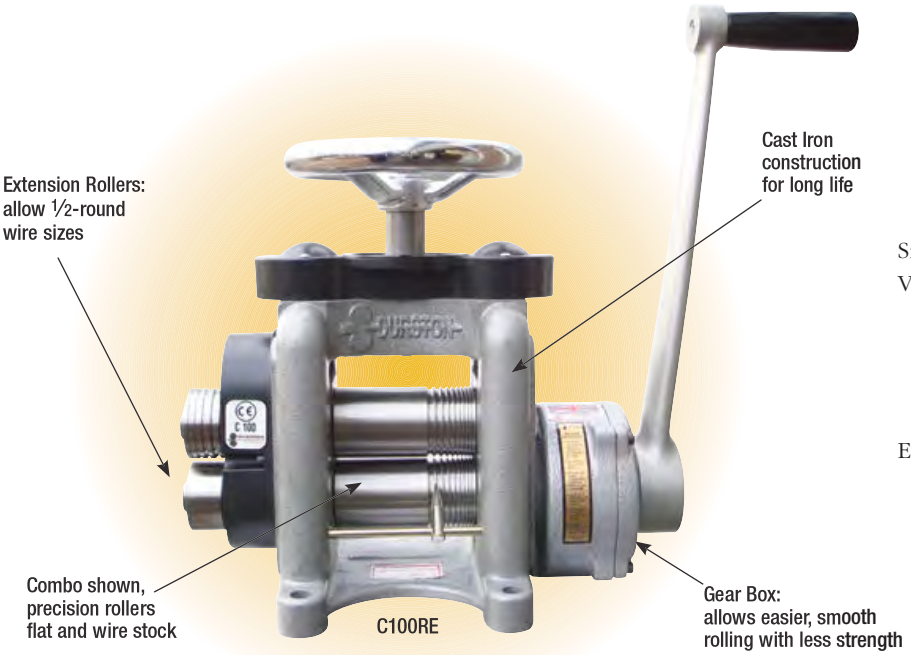
DURSTON Rolling Mills

Durston Rolling Mills are recognized for their reliability, robust construction, high quality and fine finish. Primarily used by craftsmen involved in gold and silversmithing as well as manufacturing and wherever there is a need for wire shaping, flattening and rolling down. Durston uses state-of-the-art machinery and manufacturing techniques ensuring strict quality control. Made in the United Kingdom.

- Old world craftsmanship combined with modern technology ensures accuracy and a long life but most of all— **A Great Value!**
- Selected mills have extension rollers
- Manual 100mm, 130mm and 150mm mills have a high precision gear box for higher turn efficiency and smooth operation.

Durston Power Combo Mills incorporate safety with quality. Emergency stop button, safety bars both front and rear as well as guards over the extension rollers are safety features designed with the user in mind. All units have cast iron bases, cast iron gearbox with powerful motors and the same one-piece cast iron mill frames. Heavy-duty roller bearings effortlessly run the high quality steel rolls in forward or reverse at variable speeds. Double Combo mills provide a larger work area for flat rolling and more square wire sizes than Single Combo mills but have a larger footprint.



100mm Combo Rolling Mill with Gear Box and Extension Rollers Shown

Which Durston Mill Do I Choose?

Sizes available: 80mm, 100mm, 130mm, 150mm

Variations of manual mills:

- Flat
- Combo (Flat and Wire),
- Round,
- Double - space saving

Electric Production Models:

- Combo (Flat and Wire),
- Single Power Mill - space saving
- Double Power Mill

DURSTON	Item #	Flat - Capacity mm Width	Flat - Capacity mm Thickness	Square Wire	Round	½-Round Wire	Drive
MANUAL							
Round 150	**855-2023**	20	6	–	10-1mm (18)	4, 3, 2 + 1.5mm	5 to 1
C80 Econo	**855-2001**	40	5	6.5-1mm (9)	–	4, 3, 2 + 1.5mm	Direct
Round 100	**855-2021**	45	5	–	6-1mm (10)	4, 3, 2 + 1.5mm	4 to 1
C80	**855-2000**	60	5	6.5-1mm (4)	–	4, 3, 2 + 1.5mm	Direct
C100R	**855-2002**	70	5.5	7-1mm (9)	–	4, 3, 2 + 1.5mm	4 to 1
C100RE	**855-2003**	70	5.5	7-1mm (9)	–	4, 3, 2 + 1.5mm	4 to 1
Round 130	**855-2022**	75	6	–	6-1mm (10)	4, 3, 2 + 1.5mm	5 to 1
C130R	**855-2006**	80	6	8-1mm (11)	–	4, 3, 2 + 1.5mm	5 to 1
C130RE	**855-2005**	80	6	8-1mm (11)	–	4, 3, 2 + 1.5mm	5 to 1
F100RE	**855-2017**	100	5.5	–	–	4, 3, 2 + 1.5mm	4 to 1
F130RE	**855-2018**	130	6	–	–	4, 3, 2 + 1.5mm	5 to 1
C130DBL	**855-2011**	130	6	10-1mm (19)	–	4, 3, 2 + 1.5mm	7 to 1 sheet 3.5 to 1 wire
POWER							
C100SSP	**855-2012**	70	5.5	6-1mm (9)	–	4, 3, 2 + 1.5mm	.75kw
C130SSP	**855-2014**	80	6	8-1mm (11)	–	4, 3, 2 + 1.5mm	1.1kw
100DSP	**855-2013**	100	5.5	8-1mm (17)	–	8-1.5mm (7)	.75kw
130DSP	**855-2015**	130	6	10-1mm (19)	–	8-1.5mm (7)	1.1kw

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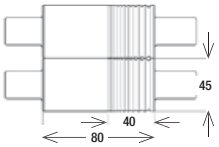
A, B C80 Econo and C80 Combo Mills

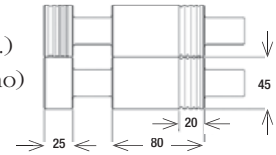
80mm combo rolling mill available with and without extension rollers. Compact and economical. Capable of handling flat or round stock.



C80 Econo

Specifications:

Gear Ratio	Direct drive
Roller Size	80 x 45mm (W x dia.)
Sheet Capacity	40 x 5mm (C80 Econo)
(W x thick)	60 x 5mm (C80)
Wire Capacity	6.5–1mm square (9 grooves C80 Econo) (4 grooves C80)
	4, 3, 2 + 1.5mm ½-round wire (only on C80)
Dimensions	8⅞" W x 6¾" D x 10½"H (C80 Econo)
(w/o handle)	10" W x 6¾" D x 10½"H (C80)
Net Wt.	33 lbs.

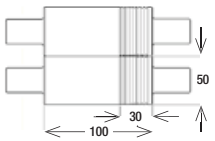


C80

	Description	Item#	Each
A.	C80 Econo (without extension rollers)	855-2001	$660.00
B.	C80	855-2000	725.00

C, D C100R and C100RE Combo Mills

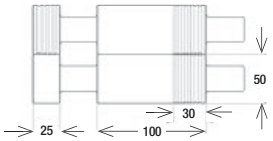
100mm combo rolling mill with or without extension rollers and both with gearbox.



C100R

Specifications:

Gear Ratio	4:1
Roller Size	100 x 50mm (W x dia.)
Sheet Capacity	70 x 5.5mm (W x thick)
Wire Capacity	7–1mm square (9 grooves); 4, 3, 2 + 1.5mm ½-round wire - only on C100RE model
Dimensions	13"W x 7⅞"D x 12⅝"H (C100R)
(w/o handle)	14¼"W x 7⅞" D x 12⅝"H (C100RE)
Net Wt.	68 lbs./66 lbs.

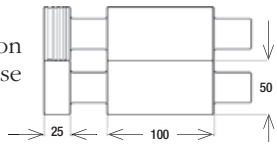


C100RE

	Description	Item#	Each
C.	C100R (without extension rollers)	855-2002	$940.00
D.	C100RE	855-2003	1,135.00

E. F100RE Flat Mill

100mm flat rolling mill with gear box and extension rollers for ½-round wire. Popular mill for those working from a starter mill.



Specifications:

Gear Ratio	4:1
Roller Size	100 x 50mm (W x dia.)
Sheet Capacity	100 x 5.5mm (W x thick)
Wire Capacity	4, 3, 2 + 1.5mm ½-round wire
Dimensions	14¼"W x 7⅞" D x 12⅝"H (w/o handle)
Net Wt.	64 lbs.

Description	Item#	Each
F100RE	855-2017	$1,125.00

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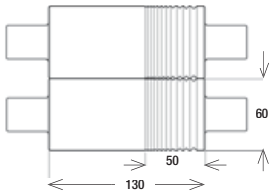
Durston Rolling Mills, Continued

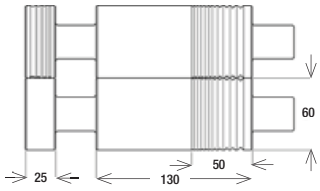
A

A. C130R and C130RE Combo Mills

130mm combo rolling mill with gear box. Comes with or without extension rollers.



C130R



C130RE

Specifications:

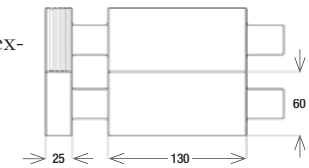
Gear Ratio	5:1
Roller Size	130 x 60mm (W x dia.)
Sheet Capacity	80 x 6mm (W x thick)
Wire Capacity	8–1mm square (11 grooves) 4, 3, 2 + 1.5mm ½-round wire only on C130RE model
Dimensions	15"W x 8½"D x 14⅜"H (C130R) 16⅛"W x 8½"D x 14⅜"H (C130RE)
Net Wt.	95 lbs.

Description	Item#	Each
A. C130R (without extension rollers)	**855-2006**	**$1,075.00**
C130RE	**855-2005**	**1,385.00**

B

B. F130RE Flat Mill

130mm flat rolling mill with gear box and extension rollers for ½-round wire.



Specifications:

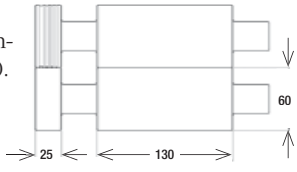
Gear Ratio	5:1
Roller Size	130 x 60mm (W x dia.)
Sheet Capacity	130 x 6mm (W x thick)
Wire Capacity	4, 3, 2 + 1.5mm ½-round wire
Dimensions	16⅛"W x 8½"D x 14⅜"H (w/o handle)
Net Wt.	101 lbs.

Description	Item#	Each
F130RE	**855-2018**	**$1,365.00**

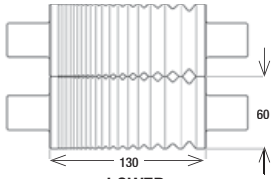
C

C. C130DBL Combo Mill

Space saving 130mm combo rolling mill, recommended to mount on cabinet stand (see p. 417).



UPPER



LOWER

Specifications:

Gear Ratio	7:1 for sheet; 3.5:1 for wire
Roller Size	130 x 60mm (W x dia.)
Sheet Capacity	130 x 6mm (W x thick)
Wire Capacity	10–1mm square (19 grooves); 4, 3, 2 + 1.5mm ½-round wire
Dimensions	16½"W x 8½"D x 22¼"H (w/o handle)
Net Wt.	198 lbs.

Description		Item#	Each
C130DBL		**855-2011**	**$2,380.00**

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Durston Rolling Mills, Continued

Round Rolling Mills

Finally round wire from a rolling mill! With three mills to choose from, you'll find the one that meets your needs. All three mills include a gear reduction to make it easy to roll consistently smooth round wire along with a small flat area and side roller for four half round sizes.

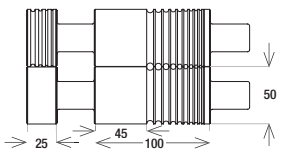
Simply start with a square (or round) wire and use the mill in the same way as any other manual mill. Square wire will gradually compress to round as it passes through consecutively smaller grooves. Note that a round section will be formed before the rollers are fully closed. If you continue to roll and fully close the rollers, this will create a slightly oval wire.

To avoid flashing, rotate the wire 90 degrees on every pass. If flashing forms, reduce the amount of reduction on each pass.

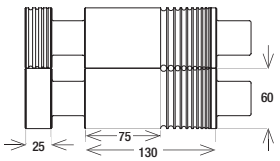
Round 150

Specifications:

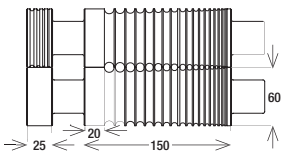
	Round 100	Round 130	Round 150
Gear Ratio:	4 - 1	5 - 1	5 - 1
Roller Size (WxD):	100mm x 50mm	130mm x 60mm	150mm x 60mm
Round Capacity: by 0.5mm increments	10 grooves 1-6mm	10 grooves 1-6mm	18 grooves 1-10mm
Flat/Sheet Capacity: (Width x Thickness)	45mm x 5mm	75mm x 6mm	20mm x 6mm
Side Roller 1/2 Round Sizes:	4,3,2 + 1.5mm	4,3,2 + 1.5mm	4,3,2 + 1.5mm
Dimensions without handle:	14¼"W x 7⅞"D x 12⅝"H	16⅛"W x 8½"D x 14⅜"H	17"W x 8½"D x 14⅜"H
Net Weight:	64 lbs (29kg)	100 lbs (45.3kg)	104 lbs (47.3kg)
Shipping Weight:	67 lbs (30.3kg)	105 lbs (47.8kg)	110 lbs (49.8kg)
Item#:	**855-2021**	**855-2022**	**855-2023**
Price:	**$1,365.00**	**$1,565.00**	**$1,750.00**



Round 100
855-2021



Round 130
855-2022



Round 150
855-2023

A, B Manual Mill Stands

Choose from pedestal and cabinet types.

Pedestal style is constructed of sturdy 10-gauge steel with a ⅜" top plate and holds all manual mills except C130DBL. Measures 12"W x 14"D x 35½"H. Weighs 22 lbs.

Cabinet style is made of 10-gauge, ¼" thick plate steel, painted inside and out. Provides locked storage area. Holds all available manual mills. Measures 14"W x 14"D x 35½"H. Weighs 35 lbs.

Description	Item#	Each
A. Pedestal	**855-2007**	**$275.00**
B. Cabinet	**855-2010**	**335.00**

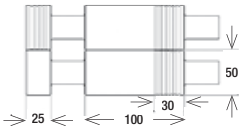
A Pedestal

B Cabinet

All prices subject to change without notice.

Durston Rolling Mills, Continued

A. C100SSP Single Combo Mill



Rolls sheet, square wire and half-round wire.

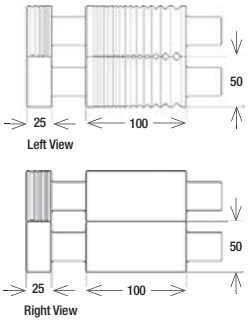
Specifications:

Motor	110V, .75kw
Speed	5-20rpm
Roller Size	100 x 50mm (W x dia.)
Sheet Capacity	70 x 5.5mm (W x thick)
Wire Capacity	6–1mm square (9 grooves); 4, 3, 2 + 1.5mm ½-round wire
Dimensions	18⅛"W x 13⅜"D x 19⅝"H
Net Wt.	231 lbs.

Description	Item#	Each
C100SSP	**855-2012**	**$3,095.00**

FOB United Kingdom

B. 100DSP Double Combo Mill



Rolls sheet, square wire and half-round wire.

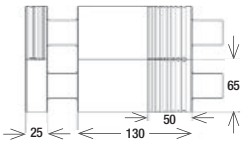
Specifications:

Motor	110V, .75kw
Speed	5-20rpm
Roller Size	100 x 50mm (W x dia.)
Sheet Capacity	100 x 5.5mm (W x thick)
Wire Capacity	8–1mm square (17 grooves); 8, 6, 4, 3, 2 + 1.5mm ½-round wire
Dimensions	27½"W x 13⅜"D x 19⅝"H
Net Wt.	287 lbs.

Description	Item#	Each
100DSP	**855-2013**	**$3,995.00**

FOB United Kingdom

C. C130SSP Single Combo Mill



Rolls sheet, square wire and half-round wire.

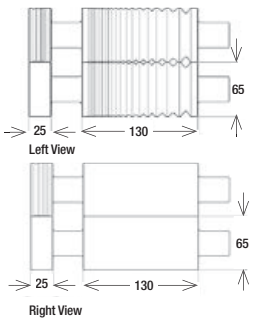
Specifications:

Motor	110V, 1.1kw
Speed	5-20rpm
Roller Size	130 x 65mm (W x dia.)
Sheet Capacity	80 x 6mm (W x thick)
Wire Capacity	8–1mm square (11 grooves); 4, 3, 2 + 1.5mm ½-round wire
Dimensions	19⅝"W x 15⅜"D x 21¼"H
Net Wt.	287 lbs.

Description	Item#	Each
C130SSP	**855-2014**	**$3,820.00**

FOB United Kingdom

D. 130DSP Double Combo Mill



Rolls sheet, square wire and half-round wire.

Specifications:

Motor	110V, 1.1kw
Speed	5-20rpm
Roller Size	130 x 65mm (W x dia.)
Sheet Capacity	130 x 6mm (W x thick)
Wire Capacity	10–1mm square (19 grooves); 8, 6, 4, 3, 2 + 1.5mm ½-round wire
Dimensions	32⅝"W x 15⅜"D x 21¼"H
Net Wt.	397 lbs.

Description	Item#	Each
130DSP	**855-2015**	**$4,815.00**

FOB United Kingdom

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A. Durston Draw Bench 1400 - Draw up to 10mm diameter!

Use the handle on one side for direct drive or simply switch to the other side for 4 to 1 reduction. German drawing tongs included. Made in England.

Specifications:

Working Length	950mm (37⅜")	Wire Capacity	10mm
Dimensions	54"L x 22"W x 38¼"H	Shipping Wt.	176 lbs.
Two Speeds	Direct 1 to 1 or 4 to 1 reduction		

Description	Item#	Each
Wire Drawing Bench	**268-3051**	**$1,050.00**

A

B. Round Carbide Drawplate - Genuine Shenhwa

Allows you to draw extremely bright, smooth round wire. Made of stainless steel with highly polished carbide die inserts for holes. Lasts much longer than steel drawplates. Made in Thailand.

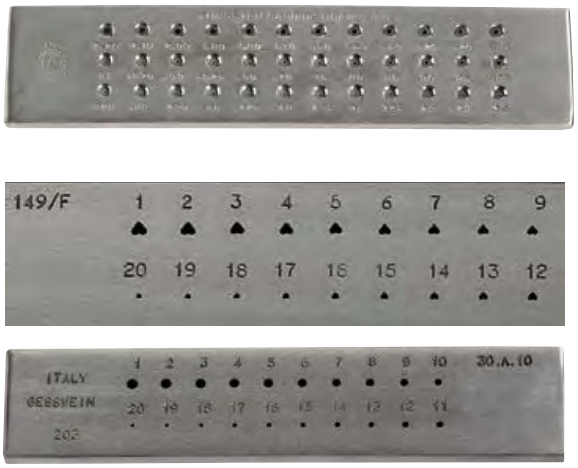
Description	Hole Sizes	No. of Holes	Item#	Each
Round ●	2.2–0.26mm	36	**269-3000**	**$129.00**

C. Steel Drawplates

Economical, durable steel drawplates for reducing wire diameter. Have plenty of holes to make drawing down gradual and easy. Anneal wire occasionally to keep soft, and lubricate with beeswax or Lube-Stik. Made in Italy.

Description	Hole Sizes	No. of Holes	Item#	Each
Round ●	6–3mm	31	**268-1500**	**$99.95**
	3–0.5mm	31	**268-1502**	**85.00**
Round ●	3–1mm	20	**268-2030**	**62.00**
	2–0.3mm	31	**268-1504**	**85.00**
Half-Round ◗	3–1mm	20	**268-1506**	**115.00**
Square ■	3–1mm	20	**268-1510**	**96.00**
Oval ⬮	3–1mm	20	**268-1508**	**95.00**
8-Point Star ✸	6–3mm	31	**268-1514**	**199.00**
Heart ♥	3–1mm	20	**268-1516**	**299.00**
Butterfly	9–6mm	31	**268-1512**	**800.00**
Multiform ●◗■	3.5–1mm	60*	**268-1518**	**299.00**

**20 round, 20 half-round and 20 square holes.*

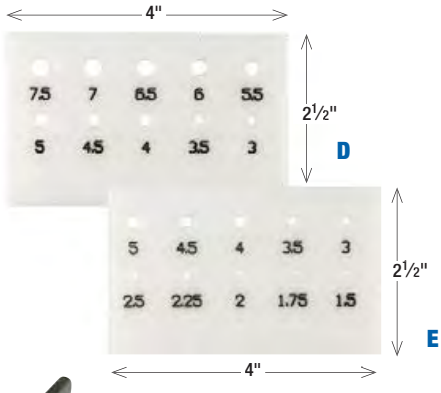


B C

D, E Thermoplastic Drawplates

These thermoplastic drawplates are used to draw woven wire without marring! Gently reduces chain diameter and produces a uniform diameter. Chains stay flexible. Durable, long lasting and non-marring. Made in USA.

Description	Item#	Each
D. Small	**830-1509**	**$29.00**
E. Medium	**830-1510**	**29.00**



F. Drawing Tongs

Grips wire firmly for pulling through drawplates.

Description	Item#	Each
8" Drawing Tongs	**195-0249**	**$21.10**
10" Drawing Tongs	**195-0250**	**19.95**

G. ESP Anti-Rust Spray – Contains no CFCs!

ESP (Extra Special Protection) leaves an ultra-thin film that shields metals from rust and corrosion. Lubricates delicate mechanisms and penetrates to loosen frozen nuts and bolts. Neutralizes fingerprints and displaces moisture. Protects rolling mills, machinery and tools.

Description	Item#	12+
ESP Spray, 16 oz. Spray Bottle Ⓗ	**825-1450**	**$14.95**

F G

Ⓗ *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

All prices subject to change without notice.

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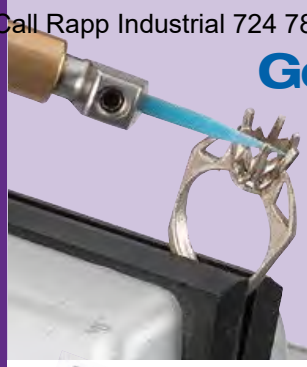
Gesswein® Micro Filing and Polishing Solutions



FMR Mini-Filers and Ultrasonic Handpieces

Micro polishing and deburring hard to reach areas is now made so much easier with our new systems. The FMR handpiece from DIPROFIL® in Sweden is configured to fit either a Flexible Shaft machine with QD or a Micromotor. Choose 0.5mm or 1.0mm stroke length and both handpieces have a built-in tool holder accepting up to 3.6mm diameter. Our Ultrasonic Polishers quickly debur and polish even the smallest areas using ceramic stones or diamond tips.

A

B

C

D

A, B FMR Mini-Filers

Reciprocating Heads for Flex Shafts and Micromotors

Quickly attaches to a Foredom QD style flexible shaft unit or a Power Hand micromotor after removing the rotary head. Built in holder accepts up to 3.6mm diameter tools including flat ceramic stones. Designed to work on small surfaces in narrow and confined spaces. Choose either the 0.5mm or 1.0mm stroke length handpiece. Recommended speed is 5,000 to 9,000rpm. Caution — maximum speed is 11,000rpm. Measures 5¼"L x 1" dia. Weighs 5 oz.

Length of Stroke	Item#	Each
A. 0.5mm FMR Mini-Filer for Flex Shaft	**850-1923**	**$647.00**
1.0mm FMR Mini-Filer for Flex Shaft	**850-1924**	**647.00**
B. 0.5mm FMR Mini-Filer for Power Hand Micromotor	**510-2266**	**647.00**
1.0mm FMR Mini-Filer for Power Hand Micromotor	**510-2264**	**647.00**

C. Marathon Micromotor – with FMR Mini-Filer

Combining the FMR Mini-Filer with our new Power Hand M-08X micromotor (1,000-8,000rpm) gives improved control and flexibility for filing, deburring and polishing. Use the convenient dial speed control to set reciprocations from 5,000 to 8,000 strokes per minute. Foot rheostat is optional. Marathon controller features an overload protection cut-off switch, forward/reverse switch, voltage selection (110/220V), and produces 0-30V DC (continuously variable). Accepts our full range of Power Hand 3 and standard micromotor handpieces. Three NSS Ceramic Stones, Round, 3mm x 50mm, 800, 1000 and 1200 grits included. Measures 4½"W x 5¼"D x 3¾"H. Weighs 5.5 lbs. 110/220V, 50/60Hz.

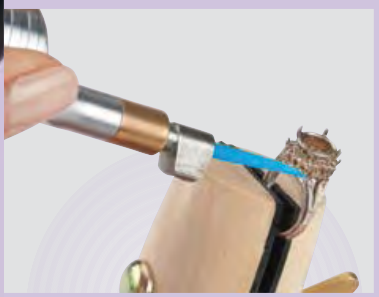
Description	Item#	Each
C. 0.5mm Mini-Filer, Micromotor M-08X, Marathon Controller, 3 Ceramic Stones	**510-2967**	**$1,148.00**
1.0mm Mini-Filer, Micromotor M-08X, Marathon Controller, 3 Ceramic Stones	**510-2968**	**1,148.00**
Variable Speed Foot Rheostat TPF-77 (optional)	**510-2940**	**60.00**

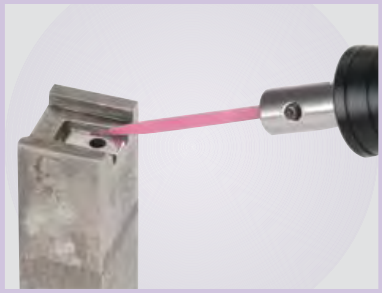
D. POWER/HAND®3 Controller – with FMR Mini-Filer

This Micro Filing System combines most advanced Power Hand 3 Controller with the FMR Mini-Filer and our new M-08X micromotor (1,000-8,000rpm). It gives improved control and flexibility for filing, deburring and polishing. The convenient dial speed control will set reciprocations to 5,000 to 8,000 strokes per minute and a digital readout shows percentage of speed. A built-in micro computer enables smooth operation and automatic torque control. Load indicator shows when too much force is applied. The self-diagnostic function checks operating conditions and activates a cooling fan if ever needed. Controller accepts two handpieces. Forward/reverse switch. Foot rheostat is optional. Accepts our full range of Power Hand 3 Handpieces as well as our standard types. Three NSS Ceramic Stones, Round, 3mm x 50mm, 800, 1000 and 1200 grits included. Measures 7⅛" x 7⅛" x 4⅛"H, 110V (220V available).

Description	Item#	Each
D. 0.5mm Mini-Filer, Micromotor M-08X, Power Hand 3 Controller, 3 Ceramic Stones	**510-3387**	**$1,465.00**
1.0mm Mini-Filer, Micromotor M-08X, Power Hand 3 Controller, 3 Ceramic Stones	**510-3386**	**1,465.00**
Variable Speed Foot Rheostat VC90 (optional)	**510-3306**	**118.00**

IMPORTANT: See safety recommendations on page 448





A, B ULTRAMAX® MF with Ultrasonic Handpiece

FMR Mini-Filer Option

The very versatile Ultramax MF (Multi Function) Controller is supplied with an Ultrasonic Handpiece for use with Ceramic Stones and other tools for Micro Filing and Polishing. It also accepts the Mini-Filer with M-08X micromotor giving the operator two choices of how to quickly debur, file and polish. The Ultrasonic Handpiece reciprocates at 16,000 to 26,000 cycles per second — incredibly fast, with a minute stroke length of just 4 to 40 microns, all operator controlled. This allows micro polishing even in deep corners and blind holes. The MF Controller's third receptacle is for our optional Brushless Rotary Handpiece (1,000 to 50,000rpm, #500-0224, see p. 463). All of our standard and Power Hand 3 micromotor handpieces (see pages 423, 429-431) connect to the MF. Included are: MF Controller, Ultrasonic Handpiece (with 6mm thread), tool box, handpiece rest, tool changing wrenches, 1mm and 3mm flat clamp and 3mm round tool holders, and on/off foot switch. Measures 6¾"W x 9½"D x 5½"H. Weighs 5.5lbs. 90-240V, 50/60Hz.

	Description	Item#	Each
A.	ULTRAMAX MF with Ultrasonic Handpiece	**500-0220**	**$2,495.00**
B.	0.5mm Mini-Filer with M-08X Micromotor, 3 Ceramic Stones	**510-3308**	**1,072.00**
	1.0mm Mini-Filer with M-08X Micromotor, 3 Ceramic Stones	**510-3307**	**1,072.00**
	Variable Speed Foot Rheostat for Mechanical Handpieces (optional)	**500-0221**	**60.00**

See Our Complete Line of Ceramic Stones pages 468-469

C. ULTRAMAX® UM-1200 Ultrasonic Polisher

The most affordable ultrasonic micro polisher for polishing with diamond tools and ceramic stones. The high quality UM-1200 produces 25,000 cycles per second of longitudinal vibration in a small, comfortable handpiece with an invisible minute stroke of 10 to 35 microns from low to high output levels.

Includes controller UM-1200, ultrasonic handpiece with 8mm screw thread standard accessory set (two sintered and six plated diamond tools and two ceramic stones), one flat clamp tool holder 1.0mm, two round clamp tool holders 3.0mm, on/off foot switch, handpiece cradle rest, bench jig, wrench and hex key. Measures 7½"W x 5½"D x 3½"H. 90-240V, 50/60Hz.

Description	Item#	Each
ULTRAMAX UM-1200 with Ultrasonic Handpiece	**500-1200**	**$1,495.00**

D. FMR Mini-Filer Holder – For Ceramic Stones, 1mm

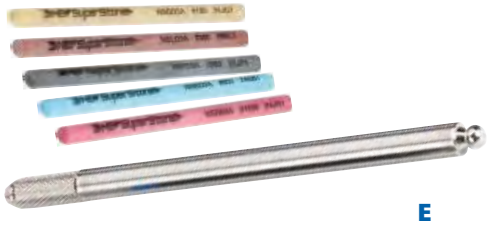
Firmly grips flat ceramic stones 1mm thick, steel jaws are 8mm wide, shank 3mm. Sweden.

Description	Item#	Each
1mm Holder	**403-1045**	**$33.30**

E. New Super Stone (NSS) Set – Round Ceramic Stones, 3mm x 50mm

New Super Stone (NSS) offers an improved cutting ability, increased heat resistance, and longer life. Made of long ceramic fibers that will not break even under the most strenuous conditions, the NSS can be used in ultrasonic polishers, reciprocating profilers or by hand.

Description	Item#	Each
Ceramic Stones, Round Set, 3mm x 50mm, 1 each 180, 300, 600, 800, 1200 grit & Holder	**355-1103**	**$89.00**



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Gesswein® POWER/HAND®3 Multifunctional Micromotor System

Designed with the latest technology in micromotor systems, the Power Hand 3 can handle almost any finishing job. This interchangeable system allows the operator to choose from a selection of motors and heads to create the right tool for a variety of polishing applications. With the quick disconnect feature, the operator can switch heads within seconds.

Power Hand 3 is the third generation of its line and comes with several new features such as: convenient on/off switch on each motor case, higher torque output for heavier grinding, and slim lightweight handpiece cable. The Power Hand 3 controller features a load indicator light to warn operator of excessive pressure, and digital RPM display to indicate exact rotational speed of handpiece. Made in Japan.

A. POWER/HAND®3 Controller

Power Hand 3 Controller is designed for one-person use. Has 2 output stations with switch to instantly change power from one handpiece to the other. Speed can be adjusted by the dial rheostat on the face of the unit or by an optional variable speed foot rheostat (see below).

	Description	Item#	Each
A.	PH3 Controller, 115V	**510-3300**	**$495.00**
	PH3 Controller, 230V	**510-3302**	**495.00**

Load Indicator
8 steps of LED display from green to yellow to red. Display lights up when too much force is being applied. For best results and long life, stay within the green.

Digital Rotation Display
2-digit display for easy adjustment of rotation speed. Dialing in the exact RPM for each tool to ensure optimal performance.

Error Code
Displays an error message for easy trouble shooting due to heat build up, overloading the handpiece, or a defective motor cord.

Self Diagnostic Function
PH3 Controller checks condition of motor and controller for safety reasons. When heating up, the fan inside starts automatically to reduce temperature.

Forward/Reverse button
To control the rotational direction for each motor. LED light indicates rotational direction.

PH2X Handpieces
Our previous Power Hand 2X handpieces with 3 prong plug will connect directly into the controller. RPM display, load indicator, and error code message will not be displayed.

Variable Speed Foot Rheostat (optional)
Now with Auto Cruise feature, it is possible to set a fixed speed with the foot pedal, allowing the operator to free their foot from the pedal.

B, C POWER/HAND®3 Rotary Kits

Start with these money saving kits. Includes PH3 Controller and handpiece of your choice.

	Description	Item#	Each
	PH3 Controller with 8X Handpiece	**510-3390**	**$1,175.00**
	PH3 Controller with 15X Handpiece	**510-3391**	**1,175.00**
	PH3 Controller with 20X Handpiece	**510-3392**	**1,175.00**
	PH3 Controller with 30X Handpiece	**510-3393**	**1,175.00**
	PH3 Controller with 35X Handpiece	**510-3394**	**1,175.00**
	PH3 Controller with 55X Handpiece	**510-3396**	**1,175.00**
C.	Variable Speed Foot Rheostat VC90 (optional)	**510-3306**	**118.00**

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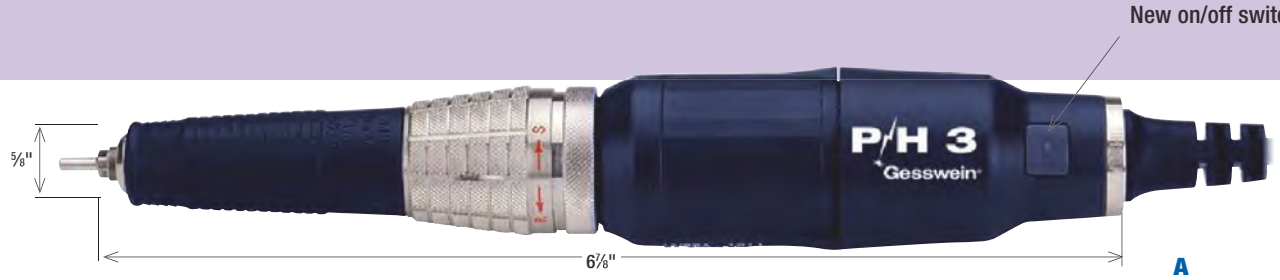
Gesswein® POWER/HAND®3 Rotary Handpieces

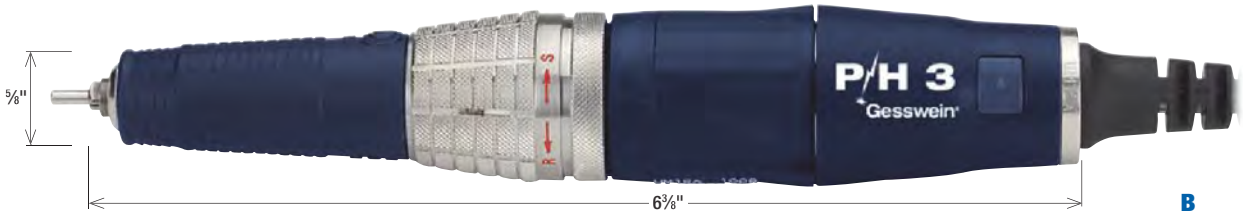
Choose from six sturdy, true-running, well-balanced handpieces with powerful 30V DC air-cooled motors. Enhanced motor design increases torque by 20% and improves airflow to keep handpieces cool. They operate with minimal vibration and have flexible power cords for easy reach. All handpieces have a quick-tool-change feature and new on/off switch located on the motor. All six handpieces are two-piece construction and can accept various Power Hand head attachments. Standard Head is included. Supplied with 3/32" and 1/8" collets, collet wrenches and replacement motor brushes. Please visit **www.gesswein.com** for handpiece diagram and parts list. Made in Japan.



A. High-Torque Rotary Handpieces

Designed to handle the toughest jobs. These workhorses have the highest torque rating. Available in 3 different speeds: 8,000, 15,000, and our most popular 30,000rpm. Use for hand grinding, heavy deburring, cutting, polishing and finishing all types of material. Supplied with 3/32" and 1/8" collets. Weight 9.74 oz.

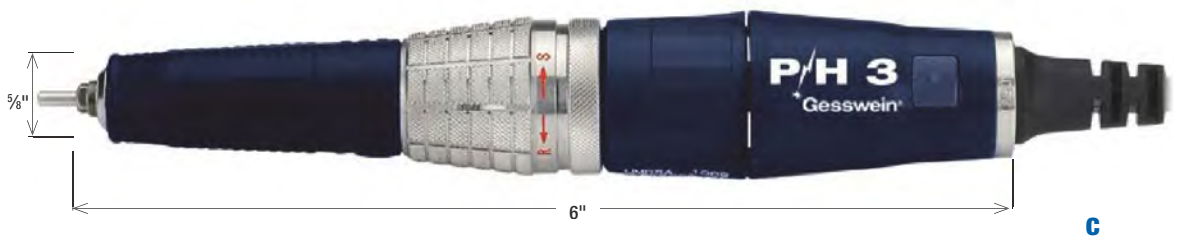
Description	Speed	Torque	Item#	Each
08X	1,000–8,000rpm	9.8	**510-3310**	**$750.00**
15X	1,000–15,000rpm	8.8	**510-3320**	**750.00**
30X	1,000–30,000rpm	6.8	**510-3340**	**750.00**



B. Standard Rotary Handpieces

These handpieces are smaller and lighter weight compared to the high-torque handpieces. They fit comfortably in the hand and are well suited for continuous use for general purpose grinding and polishing. Available in 20,000 and 35,000rpm. Supplied with 3/32" and 1/8" collets. Weight 7.76 oz.

Description	Speed	Torque	Item#	Each
20X	1,000–20,000rpm	6.4	**510-3330**	**$750.00**
35X	1,000–35,000rpm	5.4	**510-3350**	**750.00**



C. High Speed Rotary Handpiece

The lightest, fastest and most comfortable of our straight rotary handpieces. This 55,000rpm handpiece is a great choice for tools that perform at high speeds. Use for precision work. Supplied with 3/32" and 1/8" collets. Weight 6.70 oz.

Description	Speed	Torque	Item#	Each
55X	1,000–55,000rpm	3.6	**510-3370**	**$750.00**

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Optional Heads

Mini Filer Head
#510-2266 p. 426
#510-2264 p. 426
#510-2265 p. 426

SZX Swing Head
#510-2256 p. 426

Micro-Angle
SAE90
#510-2261 p. 427

Contra Angle Head 120°
#510-2250 p. 427

Right Angle Head 90°
#510-2240 p. 427

Heavy-Duty Head
#510-2230 p. 426

Slender Head
#510-2220 p. 426

Standard Head
#510-2200 p. 426

Micro-Angle
SAE90
#510-2261 p. 427

Contra Angle Head 120°
#510-2250 p. 427

Right Angle Head 90°
#510-2240 p. 427

Heavy-Duty Head
#510-2230 p. 426

Slender Head
#510-2220 p. 426

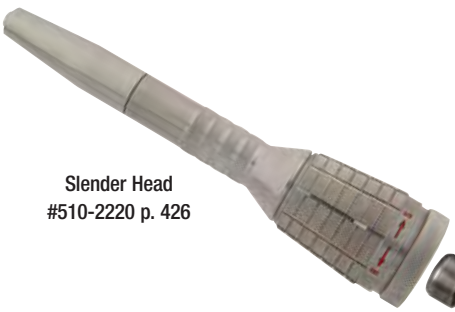
Standard Head
#510-2200 p. 426

Create your own handpiece!

All Power Hand 3 rotary handpieces are two-part design so heads and motors can be switched to create new combinations to best suit your particular job. Use the system configuration chart to determine what heads and motors can be used together. Note: Lower RPM motors have more available head options, while higher RPM motors are limited to either the Slender Head or Standard Head configurations.

Slender Head
#510-2220 p. 426

Standard Head
#510-2200 p. 426



Slender Head
#510-2220 p. 426

Heavy-Duty Head
#510-2230 p. 426

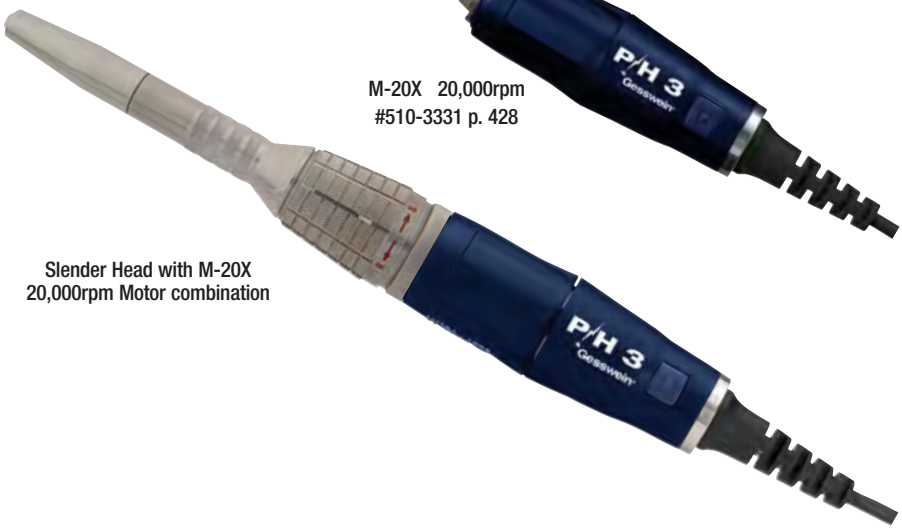
Slender Head
#510-2220 p. 426

Standard Head
#510-2200 p. 426

M-20X 20,000rpm
#510-3331 p. 428

Slender Head
#510-2220 p. 426

Standard Head
#510-2200 p. 426



Slender Head with M-20X
20,000rpm Motor combination

Slender Head
#510-2220 p. 426

Standard Head
#510-2200 p. 426

& Motors System Configuration Chart

Motors

M-08X 8,000rpm
#510-3311 p. 428

M-15X 15,000rpm
#510-3321 p. 428

M-20X 20,000rpm
#510-3331 p. 428

M-30X 30,000rpm
#510-3341 p. 428

M-35X 35,000rpm
#510-3351 p. 428

M-55X 55,000rpm
#510-3371 p. 428

Controllers

PH3 Controller
#510-3300 p. 422

PH2X Dual Controller
(no longer available)

PH3 Adapter
#510-3304 p. 435
(for connecting PH3 handpieces to PH2X controllers and Ultramax DF)

PH2X Standard Controller
(no longer available)

Gesswein® POWER HAND®3 Head Attachments

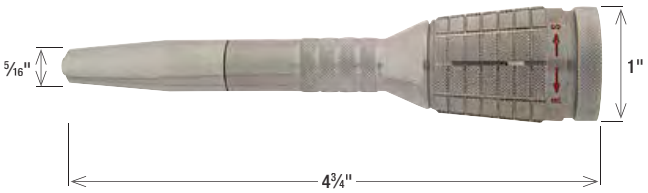
These Power Hand head attachments will connect to PH3 motors and to the previous version PH2X motors. See System configuration chart on pages 424-425 to select the right head attachment for each motor. Be sure not to exceed the maximum RPM for each head attachment.

A

A. Standard Head – Provided with all PH3 Rotary Handpieces

This all-purpose rotary head is compatible with all motor assemblies. Supplied with a 3/32" collet; 1/8" and 3mm collets also available (see p. 434).

Description	Max. RPM	Item#	Each
Z-STX	55,000	**510-2200**	**$325.00**



B

B. Slender Head – For access into deep ribs and holes

Pencil-like design only 3/8" (9.0mm) in diameter at the finger grips gives 1 9/16" (40mm) more reach than a standard rotary head. Ideal for intricate, deep, hard-to-reach cavities and delicate areas. Compatible with all motor assemblies. Supplied with a 1/8" collet; 3/32" and 3mm collets also available (see p. 434).

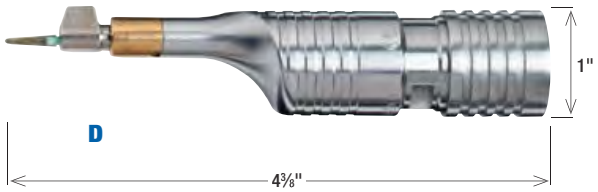
Description	Max. RPM	Item#	Each
Z-SLX	55,000	**510-2220**	**$399.00**

C

C. Heavy-Duty Head – For use with 1/4" shanked tools

Use with large tools through 1/4" shank for greater stock removal. Compatible with M-08X, M-15X and M-30X motors. Supplied with a 1/4" collet; 3/32", 1/8" and 6.0mm collets also available (see p. 434).

Description	Max. RPM	Item#	Each
Z-HDX	30,000	**510-2230**	**$399.00**

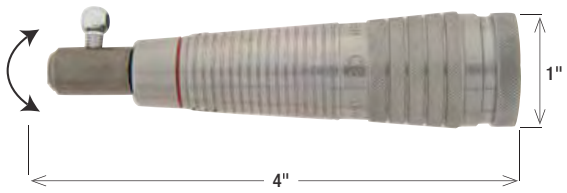


D

D. Mini Filer Heads – Reciprocating head

Mini filer heads for lightweight profiling. Slim nose design allows polishing and finishing of narrow, confined spaces. Choose from three stroke lengths. All models hold tools up to 3.5mm diameter (such as Diamond Tips on p. 109). For best results, use with M-08X motor.

Fixed Stroke Length	Max. Strokes /Min.	Item#	Each
0.5mm	12,000	**510-2266**	**$647.00**
1.0mm	12,000	**510-2264**	**647.00**
1.5mm	12,000	**510-2265**	**647.00**



E

E. SZX Swing Head – For side to side stroke

This head is identical to that on our SZX Profiler. It gives a unique side-to-side reciprocating action with a stroke that is easily adjustable. It's perfect for polishing base areas in deep cavities, corners and deep slots and helps eliminate rounding of sharp corners. Prevents bottoming out in blind holes. Holds 1.5 to 5mm (3/16") diameter tools. Use on M08X motor assembly only.

Description	Max. Strokes /Min.	Item#	Each
SZX	8,000	**510-2256**	**$495.00**

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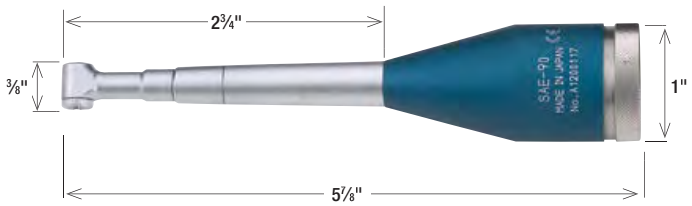
Head Attachments – continued

A. Micro-Angle Head – With 1/16" collet, for accessing tight areas

Use to reach into tight, inaccessible areas. Use on M-15X or M-08X motor assemblies only (see p. 423). SAE90 Mini Micro accepts only 1/16" shanked tools.

Description	Max. RPM	Item#	Each
SAE90 90° Mini Micro	15,000	**510-2261**	**$390.00**
Replacement 1/16" Collet (1.6mm)		510-0186	59.50

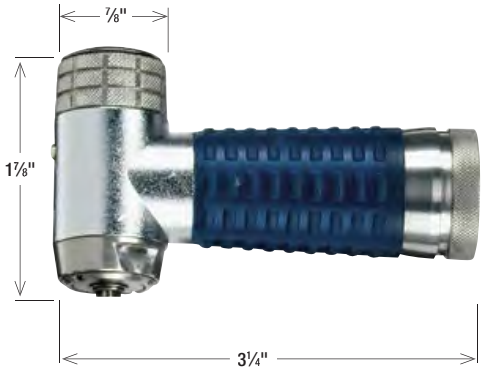


A

B. Right-Angle Head

This 90° Angle Head provides more comfortable usage than a straight handpiece in some applications. Can be used with M-08X and M-15X motors (see p. 423). Employs double spur gear that provides durable power. Supplied with 3mm and 1/8" collets; 3/32" collet also available. Equipped with quick-tool-change feature.

Description	Max. RPM	Item#	Each
Z-ANX Right-Angle Head (90°)	15,000	**510-2240**	**$395.00**

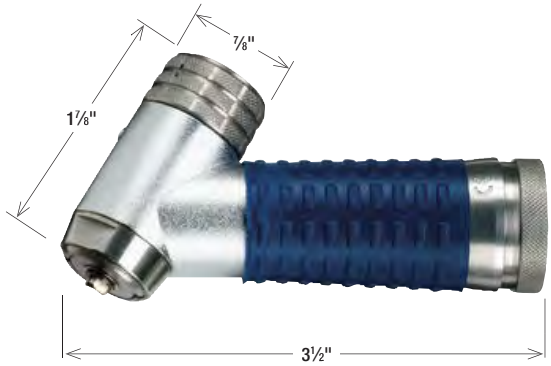


B

C. Contra-Angle Head

This 120° Angle Head's unique shape provides more comfortable usage than a straight handpiece in some applications. Can be used with M-08X and M-15X motors (see p. 423). Employs double spur gear that provides durable power. Supplied with 3mm and 1/8" collets; 3/32" collet also available. Equipped with quick-tool-change feature.

Description	Max. RPM	Item#	Each
Z-CNX Contra-Angle Head (120°)	15,000	**510-2250**	**$395.00**



C

D-F Disc Holders for Angle Rotaries – 3mm shank

Specially designed for Power Hand angle handpieces and head attachments. Shanks machined to precise dimensions to reduce vibration. Made of soft rubber to work well on flat or contoured surfaces. Precisely made to hold precut abrasive and felt discs. Or use your own abrasives cut to size, such as diamond foil, diamond sheet or diamond film (see p. 114).

Size	Item#	Each
D. 11mm round	**510-0260**	**$10.00**
E. 21mm round	**510-0265**	**10.00**
F. 31mm round	**510-0270**	**10.00**

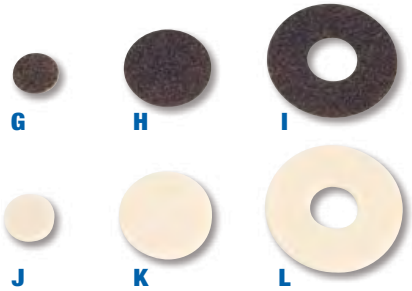
D E F

G-L Sandpaper and Felt Discs for Angle Rotaries

Precut to fit our disc holders, these discs have pressure-sensitive adhesive backing. Use sandpaper for rough through intermediate finish; use felt for final finish of metal surfaces.

Sandpaper Discs	80 Grit Item#	120 Grit Item#	180 Grit Item#	320 Grit Item#	Pkg. of 10
G. 11mm round	**510-0600**	**510-0605**	**510-0610**	**510-0615**	**$2.75**
H. 21mm round	**510-0620**	**510-0625**	**510-0630**	**510-0635**	**4.25**
I. 31mm round	**510-0640**	**510-0645**	**510-0650**	**510-0655**	**6.50**

Felt Discs	Item#	Pkg. of 10
J. 11mm round	**510-0245**	**$4.50**
K. 21mm round	**510-0250**	**7.55**
L. 31mm round	**510-0255**	**9.75**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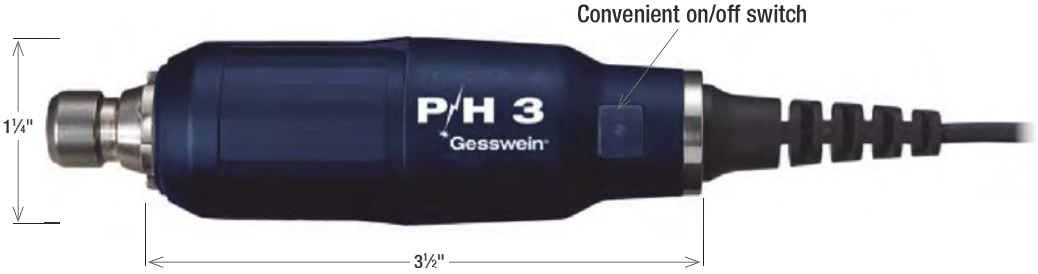
Gesswein® POWER HAND®3 Motors

Purchase a motor separately to construct your own Power Hand 3 handpiece. Power Hand 3 motors accept all Power Hand head attachments on pages 424, 426-427. Please refer to the maximum rpm speed of the head attachment when pairing with motors. All motors feature a new and convenient on/off switch. RPM speed is indicated on the motor casings. Supplied with a pair of replacement motor brushes.

Motors accept head attachments found on pages 426-427.
See System Configuration Chart on pages 424-425.

A



A. High-Torque Motors

For heavy grinding applications where high torque is required. When selecting a head attachment, please refer to the maximum rpm speed of the head attachment (see pp. 426-427). Weight 6.2 oz.

Description	Speed	Max. Torque (Ncm)	Item#	Each
M-08X	1,000–8,000rpm	9.8	**510-3311**	**$425.00**
M-15X	1,000–15,000rpm	8.8	**510-3321**	**425.00**
M-30X	1,000–30,000rpm	6.8	**510-3341**	**425.00**

B

B. Standard Motors

Small, lightweight motors for general purpose finishing. Fits comfortably in hand. For use with Standard Head and Slender Head attachments only (see p. 426). Weight 4.25 oz.

Description	Speed	Max. Torque (Ncm)	Item#	Each
M-20X	1,000–20,000rpm	6.4	**510-3331**	**$425.00**
M-35X	1,000–35,000rpm	5.4	**510-3351**	**425.00**

C

C. High-Speed Motor

The lightest, fastest, and most comfortable high-speed motor. For use with Standard Head and Slender Head attachments only (see p. 426). Weight 3.2 oz.

Description	Speed	Max. Torque (Ncm)	Item#	Each
M-55X	1,000–55,000rpm	3.6	**510-3371**	**$425.00**

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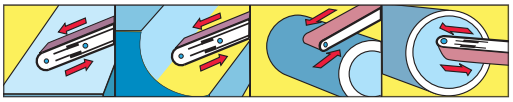
Gesswein® POWER HAND® BZX Belt Sander

Ideal for a wide variety of precision finishing applications. Use for deburring, removing EDM and machine tool marks and sanding flat and curved surfaces and narrow slots. Operates with minimal vibration and has flexible power cord for easy reach. Supplied with straight and 45° angle arms for 6 and 8mm wide abrasive belts. Arms are spring-loaded for rapid belt changes. Weighs 16 oz.

	Description	Item#	Each
A	BZX Belt Sander w/2 arms	**510-2130**	**$995.00**
B.	Optional Straight Arm (for 4mm belts)	**510-0494**	**119.00**
C.	Replacement 45°-Angle Arm (for 6 and 8mm belts)	510-0495	169.00
D.	Replacement Straight Arm (for 6 and 8mm belts)	510-0496	126.50
	BZX Belt Sander with PH3 Controller	**510-3399**	**1,415.00**

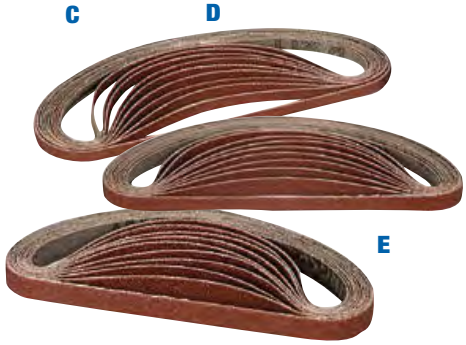
BZX Belt Sander Applications



E. Sanding Belts for BZX

Aluminum oxide abrasive belts specially made for use with our Power Hand BZX Belt Sander. Belts fit on either straight or 45°-angle arms.

Size	80 Grit Item#	120 Grit Item#	180 Grit Item#	320 Grit Item#	400 Grit Item#	Pkg. of 10 1-9	Pkg. of 10 10+
4mm	**510-0500**	**510-0505**	**510-0510**	**510-0515**	**510-0516**	**$20.50**	**$18.45**
6mm	**510-0520**	**510-0525**	**510-0527**	**510-0530**	**510-0531**	**20.50**	**18.45**
8mm	**510-0535**	**510-0540**	**510-0545**	**510-0550**	**510-0551**	**20.50**	**18.45**

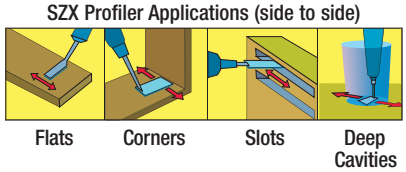


Gesswein® POWER HAND®3 SZX Side-to-Side Profiler

Provides unique side-to-side reciprocating action with adjustable stroke (up to 133 strokes per second). Length of stroke ranges from 0 – 1.6mm (increases with tool length). Perfect for polishing base areas in deep cavities, corners and deep slots. Helps eliminate rounding of sharp corners. Prevents bottoming out in blind holes. Weighs 13 oz. Special V-shaped chucking system firmly secures 1.5 to 5mm (3/16") diameter tools. Sold individually or as a set with Power Hand 3 controller 510-3300.

	Description	Item#	Each
F.	SZX Profiler	**510-3309**	**$795.00**
	SZX Profiler with PH3 Controller	**510-3389**	**1,225.00**

SZX Profiler Applications (side to side)



Safety Recommendations – For Z-2X, Z-6X and SZX Profilers.

Prolonged use of vibrating or reciprocating tools may result in vibration-induced circulation problems in the hands. Always follow safe operating procedures. Using hand protection (i.e., insulated gloves) and taking frequent breaks can help minimize but not guarantee against injury. Operating these types of tools in cold weather or with a tight grip will reduce the period of operation before risking potential injury. Individuals with a tendency to suffer from poor circulation, frequently cold fingers or itchy hands should closely monitor the condition of their hands. If symptoms appear, seek medical advice immediately.

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Gesswein® POWER/HAND® Reciprocating Profilers

These light (24 oz.) reciprocating handpieces come complete with powerful 30V DC air-cooled motors and sealed bearings. Use for polishing flat surfaces, deburring, filing, stoning, scraping, lapping and draw-stoning deep cavities. They operate with minimal vibrations to reduce fatigue and have flexible power cords for easy reach. Special V-shaped chucking system firmly secures a wide variety of abrasives and other tools (see p. 311 for steel files). Reciprocating stroke lengths are adjustable. Use with PH3 controller or PH2X controller, as well as ULTRAMAX DF and ULTRAMAX MF.

A

B

C

D

E

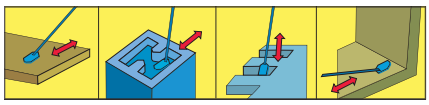
F

A. Z-2X and Z-6X Reciprocating Profilers

Both Z-2X and Z-6X provide standard back-and-forth reciprocating action. Z-2X has a 0-2.0mm length of stroke with a variable strokes per second rate up to 117. Z-6X has a 0-6.0mm length of stroke with a variable strokes per second rate up to 70. They hold 1.5 to 6.35mm (¼") diameter tools. Secured tools can float freely and be fixed at any position through 360°. Comfortable grips allow prolonged use. See below for tool holders.

	Description	Item#	Each
A.	Z-2X	**510-2150**	**$995.00**
	Z-6X	**510-2160**	**995.00**
	Z-2X with PH3 Controller	**510-3397**	**1,415.00**
	Z-6X with PH3 Controller	**510-3398**	**1,415.00**

Z-2X and Z-6X Recipro Applications (back and forth)



Flats | Deep Cavities | Slots | Corners

B-D Tool Holders for Z-2X, Z-6X and SZX

These 3mm shank holders are designed to hold precut PSA felt and sandpaper pads (see below) to make your reciprocating handpieces more versatile. You can cut your own abrasives, such as diamond foil and diamond film (see p. 114), to fit the holder pads.

	Style	Dimensions (mm)	Item#	Each
B.	Fixed Holder	10 x 20 x 40	**510-0560**	**$6.95**
		10 x 20 x 65	**510-0410**	**4.95**
C.	Free Holder with 180° swivel	10 x 20 x 80	**510-0420**	**18.50**
D.	40°-angle Rod (holds any of above to access tight cavities and corners)	12 x 90	**510-0430**	**19.95**

E, F PSA Sandpaper and Felt Pads

Precut waterproof SiC sandpaper pads, 10 x 20mm, with pressure-sensitive adhesive backing. Precut PSA felt pads can be charged with diamond compound. Excellent for use on flat surfaces. For use with Z-2X, Z-6X and SZX handpiece holders (see above).

	Description	Grit	Item#	Pkg. of 10
E.	Sandpaper Pad	180	**510-0200**	**$3.95**
		240	**510-0210**	**3.95**
		320	**510-0220**	**3.95**
		400	**510-0230**	**3.95**
		600	**510-0240**	**3.95**
F.	Felt Pad	–	**510-0300**	**6.50**

Safety Recommendations – For Z-2X, Z-6X and SZX Profilers

Prolonged use of vibrating or reciprocating tools may result in vibration-induced circulation problems in the hands. Always follow safe operating procedures. Using hand protection (i.e., insulated gloves) and taking frequent breaks can help minimize but not guarantee against injury. Operating these types of tools in cold weather or with a tight grip will reduce the period of operation before risking potential injury. Individuals with a tendency to suffer from poor circulation, frequently cold fingers or itchy hands should closely monitor the condition of their hands. If symptoms appear, seek medical advice immediately.

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Micromotor Drive Di-Profilers Connect to any Power Hand Controller

Gesswein is proud to offer our newest Di-Profiler systems. The Professional and Classic MM Drive Di-Profilers are built with a micromotor inside every handpiece and can connect directly to any Gesswein Power Hand control box. Ideal for profile polishing, filing, honing or lapping both straight and curved surfaces allowing you to finish complicated dies and molds. Eliminates the need for noisy flexible shaft motors and greasy hanging cables. Available in Professional and Classic models.

Low Vibration

A, B Professional Micromotor Drive Di-Profiler

Maximum Efficiency, Minimal Vibrations

Simply the best reciprocating handpiece in the market today, the Professional Di-Profiler combines ergonomic design and heavy duty power. A counter balance weight system located on the opposite end of the tool holder reduces vibration levels. As the tool reciprocates, the counter balance weight reciprocates in the opposite direction thereby stabilizing the handpiece. As a result, vibration in the user's hand is greatly reduced. Comes complete with operations guide, rubber sleeve, storage case, wrench and lubricating oil. Adjustable stroke length 0-6mm. 8,000RPM maximum.

	Description	Item#	Each
A.	Professional MM Di-Profiler 1/8" chuck capacity	850-1912	$2,095.00
B.	Complete Kit (Includes Professional Di-Profiler 1/8" chuck capacity, Marathon controller and variable speed foot rheostat)	850-1943	2,245.00

C, D Classic Micromotor Drive Di-Profiler

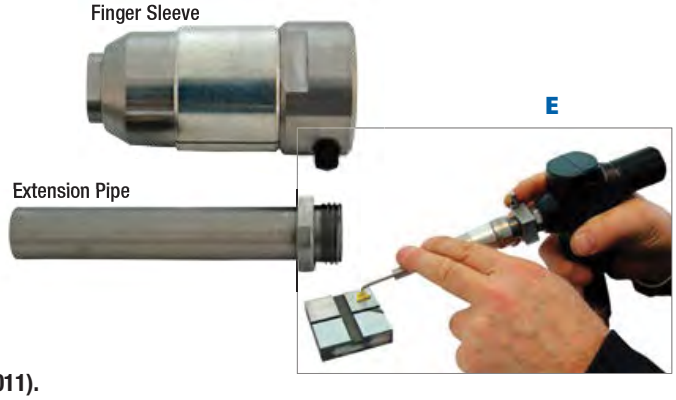
Comes complete with operations guide, rubber sleeve, storage case, wrench and lubricating oil. Adjustable stroke length 0-6mm. 8,000 RPM maximum.

	Description	Item#	Each
C.	MM Di-Profiler 1/8" chuck capacity	850-1914	$1,795.00
D.	MM Complete Kit (Includes MM Di-Profiler 1/8" chuck capacity, Marathon controller and variable speed rheostat)	850-1945	1,945.00

E. Protective Finger Sleeve

The finger sleeve will improve guidance of the tool as there is no longer any need for putting your finger on moving tools or machine parts. Simply attach the finger sleeve to the Di-Profiler (instructions included). Now the user can place their fingers over the steady finger sleeve while the tool is reciprocating underneath. Comes with 2 1/8" extension pipe for longer tools. Compatible with all Di-Profilers.

Description	Item#	Each
Finger Sleeve Package for Di-Profiler 1/4"	850-1917	$240.00
Finger Sleeve Package for Di-Profiler 1/8"	850-1916	223.00



Operation Guide is included with profiler for safety and operating instructions.
For information on hand transmitted vibration see ANSI Standard S2.70 2006 (R2011).

All prices subject to change without notice.

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A

Input for Power Hand Handpieces

A. Marathon Handy 700 Brushless Micromotor System

The Handy 700 system features an advanced controller and a 50,000rpm, 230W brushless rotary handpiece for incredible power—even at low speeds! Provides ample torque at all times to ensure fast and smooth metal removal.

Ideal for a variety of applications, including grinding, finishing and polishing. Use with Power Hand 3 handpieces (see pp. 423, 429-430) for profile polishing or belt sanding.

System includes Handy 700 controller and BH-60 handpiece with 1/8" or 3/32" collet, variable-speed foot rheostat (FS60), handpiece cradle rest, detachable handpiece holder and replacement fuse. Backed by a two-year handpiece warranty. CE approved.

Features:

- Incredible power—even at low speeds
- Full compatibility with Power Hand 3 brush-type handpieces
- Dial or foot rheostat speed control
- Auto-cruise function for fixed-speed operation with foot rheostat
- Easy-to-read digital speed display for precise speed and torque settings
- Forward/reverse rotation
- Error-checking/troubleshooting system with digital display
- Overload protection

Specifications:

Handy 700 Controller

Electrical:	100–120V, 40W, 50/60Hz
Dimensions:	5 3/8"W x 9 1/16"D x 7 1/16"H
Net Wt.:	6 lbs.

BH-60 Handpiece – Brushless

Speed Range:	1,000–50,000rpm
Max. Power:	230W
Max. Torque:	7.8 N-cm
Collet Size:	1/8" or 3/32"
Dimensions:	6 5/16"L x 1 1/16" to 3/4" dia.
Net Wt.:	8.4 oz.

	Description	Item#	Each
A.	Handy 700 System, 1/8" collet	**510-2925**	**$695.00**
	Handy 700 System, 3/32" collet	**510-2920**	**695.00**
	Replacement BH-60 Handpiece with 1/8" Collet	500-0224	495.00
	Replacement BH-60 Motor only	500-0225	400.00

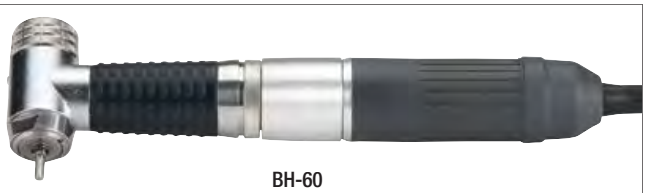
B Increase the versatility of your Handy 700.

B. BH-60 Motor Adaptor

This easy-to-use motor adaptor connects PH3 head attachments to the BH-60 Handpiece (included in the Marathon Handy 700 micromotor system). Simply remove the BH-60 head and attach the adaptor to the motor to increase the versatility of your Handy 700. Motor also sold separately (see above). Go to pages 424, 426-427 for PH3 head attachments.

	Description	Item#	Each
B.	BH-60 Motor Adaptor	**500-0223**	**$165.00**

Possible configurations below



Right Angle Head Attachment — BH-60 Adaptor — BH-60 Motor only

Slender Head Attachment — BH-60 Adaptor — BH-60 Motor only

See pages 426-427 for head attachments

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A. Marathon Micromotor System – Do-it-all System!

This extremely affordable rotary micromotor system performs a wide range of grinding, deburring and polishing operations. Includes compact controller, lightweight 35,000rpm rotary handpiece, 1/8", 3mm or 3/32" collet, variable-speed foot rheostat, handpiece cradle rest and safety glasses. Controller features a voltage selector switch, dial speed control, forward/reverse handpiece direction switch and motor overload cutoff switch. Accommodates our full line of Power Hand 3 handpieces. Electrical: 110/220V, 50/60Hz. Output voltage: 0–30V DC (continuously variable). Measures 4 1/2"W x 5 3/4"D x 3 3/4"H. Weighs 2.6 lbs. Handpiece features a well-balanced ergonomic design that fits in your hand like a pen, convenient quick-tool-change mechanism and flexible phone-type cord. Max. operating speed: 35,000rpm. Measures 6"L x 1" to 5/8" dia. Weighs 7.5 oz.

	Description	Item#	Each
A.	Marathon System with 1/8" Collet	**510-2945**	**$299.00**
	Marathon System with 3/32" Collet	**510-2956**	**299.00**
	Marathon System with 3mm Collet	**510-2970**	**299.00**
	Marathon Controller only	**510-2960**	**129.00**
	Variable-Speed Foot Rheostat TPF-77 only	**510-2940**	**60.00**

A

See page 486 for Marathon Hammer Handpiece Systems #510-2930 & #510-2935

B. ECO-Torque Micromotor System

Our most affordable rotary micromotor system! The ECO-Torque 280 handles a wide range of rotary handpiece applications. Whether you need a system for grinding, drilling, polishing or bright cutting, ECO-Torque 280 will get the job done.

Includes a compact controller with 110/220V selector switch and forward/reverse switch, lightweight 35,000rpm rotary handpiece with 3/32" collet, on/off foot switch, handpiece cradle rest, replacement pair of carbon brushes and collet chuck wrenches. Controller measures 4 1/2"W x 5 3/4"D x 3 3/4"H and weighs 2.75 lbs. Handpiece measures 6" long x 1.1" diameter (tapers to 0.7" dia. at finger grips) and weighs 7.3 oz. An optional reducing collet is available (sold separately) to reduce collet size from 3/32" to 1/16" to run high-speed burs.

Description	Item#	Each
ECO-Torque 280	**510-2976**	**$199.95**

B

C. Mini Mobile Micromotor System – Portable & Rechargeable!

If you need a system for light jobs on the go, look no further than the Mini Mobile, our first and only battery-operated micromotor system. Features a built-in environmentally friendly rechargeable NiMH (nickel-metal hydride) battery that provides up to a full 140 minutes of continuous operation on one charge, which takes only 3 hours. Also runs while charging if you need to use it for longer stretches. Complete system consists of compact controller, high-speed handpiece with your choice of collets, on/off foot switch, handpiece cradle, AC adapter and attractive aluminum carrying case with fitted foam insert. Made in Korea

Specifications:

Controller Working Time: 140 minutes
Charging Time: 3 hours
Electrical: 100–240V, 50/60Hz
Dimensions: 2.9"W x 6.7"D x 1.3"H
Case: 13.8"W x 11.3"D x 3.8"H
Net Wt.: 9.5 oz.
Handpiece Speed Range: 0–33,000rpm
Dimensions: 1" dia. x 5.6"L
Net Wt.: 5.2 oz.

Description	Collet	Item#	Each
Mini Mobile System	3/32"	**510-2905**	**$375.00**
	1/8"	**510-2900**	**375.00**
	3mm	**510-2910**	**375.00**

C

Battery Driven!

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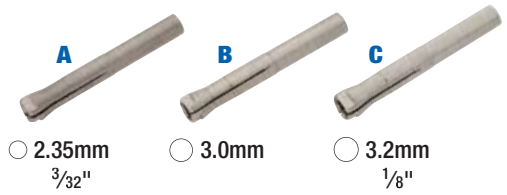
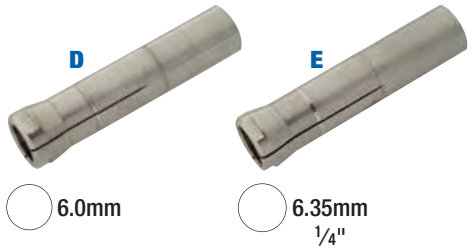
Gesswein® POWER/HAND® & Marathon Accessories/Replacement Parts



A-C Collets for Straight and Angle Rotary Handpieces PH3, PH2X & Marathon

For all Power Hand Straight and Angle Handpieces except Z-HDX Heavy-Duty Head and Micro-Angle Heads.

	Size	Item#	Each
A.	3/32" (2.35mm)	**501-0100**	**$39.95**
B.	3.0mm	**501-0106**	**39.95**
C.	1/8" (3.2mm)	**501-0105**	**39.95**



D, E Collets for Z-HDX Heavy-Duty Head

For Power Hand Z-HDX Heavy-Duty Head only.

	Size	Item#	Each
	3/32" (2.35mm)	**501-0103**	**$79.95**
	1/8" (3.2mm)	**501-0104**	**79.95**
D.	6.0mm	**501-0107**	**79.95**
E.	1/4" (6.35mm)	**501-0108**	**79.95**

F-J Reducing Collets

Use the proper reducing collet to convert your standard 1/8", 3mm or 3/32" collet to hold a 3/32" or 1/16" tool shank. Simply slip reducing collet into collet on your Power Hand standard or angle head to use smaller shanked tools. Make sure both the reducing collet and the tool shank are fully inserted into the collet. Stainless steel.

	Size	Item#	Each
F.	1/8" to 3/32"	**816-1501**	**$14.90**
G.	1/8" to 1/16"	**816-1502**	**14.90**
H.	3mm to 3/32"	**816-1504**	**14.90**
I.	3mm to 1/16"	**816-1505**	**14.90**
J.	3/32" to 1/16"	**816-1503**	**14.90**

K-M Carbon Brushes for all PH3 and PH2X Rotary Motors

	For Handpiece Motors	Item#	Set of 2
K.	8,000, 15,000, and 30,000 speeds	**510-0163**	**$23.70**
L.	20,000 and 35,000 speeds	**510-0169**	**23.70**
M.	55,000 speed	**510-0168**	**23.70**

N POWER/HAND® Chuck Joint Wrench

	Description	Item#	Each
N.	For all Straight and Angle Heads	**510-0179**	**$3.80**

O, P POWER/HAND® Collet Wrenches

	Description	Item#	Each
O.	For all Straight and Angle Heads	**510-0180**	**$9.90**
P.	For Z-HDX Heavy-Duty Head	**510-0182**	**10.50**

A. POWER/HAND®3 Adaptor

This adaptor will connect new PH3 handpiece motors to our older PH2X controllers. The PH3 motors consist of 5-pronged plugs and the PH2X controllers have 3-prong plug receptacles. Therefore, this adaptor serves as a reducer from a 5 to 3-prong plug.

Description	Item#	Each
Adaptor for PH3 handpieces	**510-3304**	**$39.00**

A

B. POWER/HAND®3 Variable Speed Foot Rheostat VC90

Now with Auto Cruise feature, it is possible to set a fixed speed with the foot pedal, allowing the operator to free their foot from the pedal.

Description	Item#	Each
Variable Speed Foot Rheostat VC90	**510-3306**	**$118.00**

B

C. POWER/HAND®3 Motor Cord

Description	Item#	Each
PH3 Motor Cord	**510-3382**	**$95.00**

C

D. POWER/HAND®3 Handpiece Extension Cord

Description	Item#	Each
PH3 Handpiece Extension Cord - 9'	**510-3380**	**$75.00**

D

E. POWER/HAND®2X 6' Handpiece Extension Cord

Description	Item#	Each
PH2X Handpiece Extension Cord - 6'	**510-1120**	**$59.00**

E

F. POWER/HAND®2X Motor Cords

	Description	Item#	Each
F.	Second Generation Cord	**510-0170**	**$48.00**
	First Generation Cord	**510-0171**	**48.00**

F

G. POWER/HAND® Foot Pedals

	Description	Item#	Each
	Variable Speed Foot Rheostat	**510-2995**	**$118.00**
G.	On/Off Foot Switch	**510-3105**	**55.00**

G

H. POWER/HAND® Handpiece Cradle Rest

Description	Item#	Each
PH2X Handpiece Cradle Rest	**510-1130**	**$14.60**

H

All prices subject to change without notice.

Gesswein®/Foredom® Flexible Shaft Motors & Kits

Made in the USA

Included uses are grinding, carving, drilling, deburring, engraving, polishing and more. Our wide selection of flexible shaft motors, handpieces and accessories allows you to grind and finish almost any material. Each motor comes complete with flexible shaft and sheath. Motors are sold individually, with handpiece, with handpiece and foot pedal or in kits that include motor, handpiece and foot rheostat. Backed by a two-year manufacturer's warranty. All motors have fully grounded wiring. UL listed. Made in USA.

Motor Specifications:	TX and TXH	SR, SRM and SRH	LX
Max. Operating Speed	15,000rpm	18,000rpm	5,000rpm
Power	1/3 HP	1/6 HP	1/10 HP
Applications	Toughest grinding & finishing	General purpose grinding & finishing	Controlled grinding & finishing

View instructional video at www.gesswein.com.

A-C Foredom® Series TX – 1/3 HP

Provides full torque and smooth, controlled acceleration throughout the entire speed range. Ideal for stone setting, wax carving, polishing, milling, drilling and other applications that call for high torque. Capable of this torque due to the fact that they use rare earth magnets in place of universal wound magnets. Offer great control under any load. Speed range: 0–15,000rpm. All 50/60Hz. Not available in 230V.

- TX is a hanging-style flexible shaft motor with 39" shaft and sheath. Use with TXR or SXR foot rheostat or EMX speed controller (see p. 443) and all standard quick disconnect (QD) handpieces (see pp. 438-441).
- TXH is a hanging-style square-drive flexible shaft motor with heavy-duty (HD) 60" flexible shaft with sheath liner/silencer. Ideal for the toughest applications using large stones and tools mounted on ¼" and 6mm shanks. Use with TXR or SXR foot rheostat or EMX speed controller (see p. 443). Can only use 25H, 30H and 44HT handpieces (see p. 442).

Quick Disconnect (QD) Keyway Drive

	Description	Electrical	Item#	Each
A.	TX Motor (with shaft & sheath)	115V	**850-0381**	**$215.00**
B.	TX + 30 + TXR-1 Kit*	115V	**850-0498**	**280.00**
	TX + 30 + SXR-1	115V	**850-1469**	**329.00**
	Replacements		**Item#**	**Each**
	TX Shaft	-	850-3395	10.50
	TX Sheath	-	850-3010	17.50
	TX Brushes (pair)	-	850-4119	12.50

**Includes 43-piece flex shaft accessory set and rotating bur holder.*

Heavy Duty (HD) Square Drive

	Description	Electrical	Item#	Each
C.	TXH Motor (with shaft & sheath)	115V	**850-0465**	**$250.00**
	TXH + 30H + TXR-1	115V	**850-0467**	**325.00**
	TXH + 30H + SXR-1	115V	**850-1467**	**360.00**
	Replacement		**Item#**	**Each**
	TXH Shaft & Sheath Assembly	-	850-3401	65.00
	TXH Brushes (pair)	-	850-4119	12.50

D. Foredom® Series LX – 1/10 HP

Great for low-speed, high-torque applications that require more control. Prevent tools from slowing under load. Speed range: 0–5,000rpm. 50/60Hz. Hanging-style flexible shaft motor with 39" shaft and more flexible neoprene sheath. Use with TXR, SXR or FCT-1 or EFC foot rheostats or EMX speed controller (see p. 443) and all standard quick disconnect handpieces (see pp. 438-441).

Quick Disconnect (QD) Keyway Drive

	Description	Electrical	Item#	Each
D.	LX Motor (with shaft & sheath)	115V	**850-1220**	**$176.50**
	LX-2 Motor (with shaft & sheath)	230V	**850-1221**	**186.50**
	Replacements		**Item#**	**Each**
	LX & LX-2 Shaft	-	850-3395	10.50
	LX & LX-2 Sheath	-	850-3015	18.90
	LX & LX-2 Brushes (pair)	-	850-4119	12.50

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A, B Gesswein/Foredom® Series SR – 1/6 HP

These motors combine all the best features: power, reliability and reversibility. Built with a larger commutator, brushes and fan to increase performance and longevity, they provide all you need for general-purpose grinding and finishing. Reverse capability allows both left- and right-handers to control direction of debris. Speed range: 0–18,000rpm. 50/60Hz.

- SR is a hanging-style flexible shaft motor with 39" shaft and sheath. Use with FCT, SCT or WF-7 foot rheostat or EM speed controller (see p. 443) and all standard quick disconnect handpieces (see pp. 438-441).
- SRM is a bench-mounted flexible shaft motor with 39" shaft and sheath and built-in speed control. Use with all standard quick disconnect handpieces (see pp. 438-441).
- SRH is a hanging-style square-drive flexible shaft motor with heavy-duty 60" flexible shaft with sheath liner/silencer. Ideal for tough applications using large stones and tools mounted on ¼" and 6mm shanks. Use with FCT, SCT or EFC foot rheostats or EM speed controller (see p. 443) and 25H, 30H or 44HT handpieces (see p. 442).

A

Quick Disconnect (QD) Keyway Drive

	Description	Electrical	Item#	Each
	SR Motor (with shaft & sheath)	115V	**850-0480**	**$165.00**
	SR-2 Motor (with shaft & sheath)	230V	**850-0482**	**185.00**
	SR + 20 + FCT-1 Kit*	115V	**850-0493**	**242.00**
	SR-2 + 20 + FCT-2 Kit*	230V	**850-0494**	**252.00**
A.	SR + 30 + SCT-1	115V	**850-0490**	**240.75**
	SR + 30 + SCT-1 Kit*	115V	**850-0484**	**297.00**
	SR + 30 + FCT-1	115V	**850-0475**	**215.00**
B.	SR + 30 + FCT-1 Kit*	115V	**850-0495**	**227.00**
	SR-2 + 30 + FCT-2	230V	**850-0476**	**225.00**
	SR-2 + 30 + FCT-2 Kit*	230V	**850-0496**	**263.00**
	SR-2 + 30 + FCH-2	230V	**850-0487**	**305.00**
	SR-2 + 30 + SCT-2	230V	**850-0492**	**345.00**
C.	SRM Motor (with shaft & sheath)	115V	**850-0497**	**245.00**
	Replacements		Item#	Each
	SR, SR-2, SRM Shaft	-	850-3395	10.50
	SR, SR-2, SRM Sheath	-	850-3010	17.50
	SR, SR-2, SRM Brushes (pair)	-	850-4108	8.85

**Includes 43-piece flex shaft accessory set and rotating bur holder.*

B

Heavy Duty (HD) Square Drive

	Description	Electrical	Item#	Each
	SRH Motor (with shaft & sheath)	115V	**850-1462**	**$245.00**
	SRH-2 Motor (with shaft & sheath)	230V	**850-1466**	**260.00**
	SRH + 30H + FCT-1	115V	**850-1464**	**315.00**
	SRH + 30H + SCT-1	115V	**850-1463**	**345.00**
	SRH-2 + 30H + FCH-2	230V	**850-1465**	**325.00**
	SRH-2 + 30H + SCH-2	230V	**850-1468**	**358.00**
	Replacements		Item#	Each
	SRH, SRH-2 Shaft/Sheath Assembly	-	850-3401	65.00
	SRH, SRH-2 Brushes (pair)	-	850-4108	8.85

C

View instructional video at www.gesswein.com.

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Handpieces for Standard Flexible Shaft Machines – In rotary and reciprocating styles

We offer a wide selection of handpieces to fit your needs, including both rotary and reciprocating handpieces with fixed collets, changeable collets or chucks. Several come with a quick-tool-change mechanism, and many are also available with a duplex spring for better control. All quickly detach from shaft. Compatible with all flexible shaft motors except TXH, TXMH, SRH and H.

View instructional video at www.gesswein.com.

A

B

A. Foredom® #30 Handpiece

Our top-selling model for all-purpose use!

The #30 handpiece features a geared Jacobs chuck that accepts up to 5/32" shanks and maintenance-free pre lubricated ball bearings. Includes chuck key with handle. Choose from pink, blue and traditional silver. Measures 1" dia. x 5"L. Weighs 6 oz.

Color	Silver	Pink	Blue	EACH Prices 1-2	3+*
Item#	850-1350	850-1351	850-1352	$49.95	$47.45

	Item#	Each
Chuck Key without Handle	850-3550	2.70
Replacement Chuck	850-2220	40.00
Replacement Chuck Key with Handle	850-3545	5.75

**Quantity discount for orders of one item number only; not assorted.*

B. Foredom Angle Grinder Attachment

Foredom's Angle Grinder Attachment is designed for use with the #30 Handpiece. Can be used to grind, sand, and polish on metal, wood, stone, glass, ceramics, bondo and more. This quality-machined, sturdy, and compact device works with 2" and smaller discs and 2" wheels with 3/8" arbor holes. 73 piece accessory set is sold separately: Contains comprehensive collection of abrasives for metal working.

- Optimum Operated Speed: 10,000 to 15,000 RPM
- Maximum Speed: 18,000 RPM for short intervals
- Measures 3 1/8" long x 2 1/2" at widest, 2 3/4" Depth
- 0.75 to 1 gear reduction.

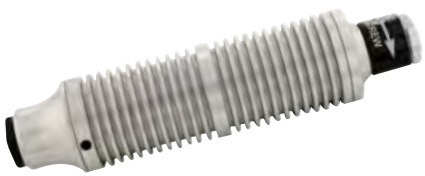
Description	Item#	Each
B. Foredom Angle Grinder Attachment	850-1358	$119.00
Optional 73 Piece Accessory Set	850-0514	78.00

C. Foredom® #35 Handpiece

Precision high-speed handpiece ideal for use with carbide and diamond tool accessories. Six collets available. Supplied with 1/8" or 3mm collet. Attaches to any Foredom flexible shaft and increases speed to 35,000rpm by means of a planetary drive system. Measures 1 1/8" dia. x 5"L. Weighs 8 oz.

	Description	Item#	Each
C.	#35 Handpiece with 1/8" collet	850-1400	$145.00
	#35 Handpiece with 3mm collet	850-1410	149.95

Collet	1/16"	3/32"	1/8"	3/16"	1/4"	3mm	4mm	Each
Item#	850-5200	850-5210	850-5220	850-5230	850-5240	850-5242	850-5245	$18.00
Set of all 5 inch-size collets							850-5052	81.50



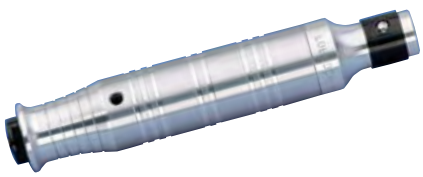
C

D. Foredom® #44T Handpiece

Similar to #30 handpiece except that it has a collet-type chuck for holding various shank sizes. Six collets from 1/16" to 1/4" available, plus 3mm and 6mm collets. Includes 3/32", 1/8" and 1/4" collets, pin and collet wrench. Pre lubricated ball bearings require no maintenance. Measures 1" dia. x 5 1/2"L. Weighs 7 oz.

	Description	Item#	Each
D.	#44T Handpiece with 3/32", 1/8" and 1/4" collets	850-1425	$49.00

Collet	5/32"	3/16"	1/4"	3mm	6mm	Each
Item#	850-5440	850-5450	850-5470	850-5475	850-5480	$8.00
Set of all 7 collets					850-5400	49.00



D

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A. FMR Mini-Filers

Each attaches to any standard Gesswein/Foredom flexible shaft machine except models TXH, TXMH and H. Designed for light-duty profiling work. Ergonomic design results in effective finishing and polishing. Slim nose is especially useful in tight spaces. Holds tools up to 3.6mm in diameter (see diamond poli files on pp. 109-110). Max. operating speed: 10,000 strokes per minute (5,000–7,000 strokes per minute recommended). Measures 5¼"L x 1" dia. Weighs 5.5 oz.

Length of Stroke	Item#	Each
0.5mm	**850-1923**	**$647.00**
1.0mm	**850-1924**	**647.00**
1.5mm	**850-1922**	**647.00**

B. Technique Rotary Handpiece

A lightweight, vibration-free, high-precision handpiece with quick-change flip-lever chuck release. Supplied with 3/32" collet. Shaped for the hand. Can be held like a pen. Has all-metal dustproof casing. Includes wrench and screwdriver. Measures approx. 1" dia. x 6"L. Weighs 4½ oz. Made in Switzerland.

	Description	Item#	Each
B.	Technique Handpiece	**850-2054**	**$185.00**
	Optional 1/8" Collet	**850-2058**	**52.00**
	Replacement 3/32" Collet	850-2057	48.00

C. Foredom® #28 Handpiece

A lightweight handpiece for intricate work and general grinding, polishing, deburring and carving applications. Slim, tapered grip provides comfort and control. Permanently lubricated ball bearings ensure smooth operation. Includes 3/32" and 1/8" collets, pin and collet wrench. Measures ¾" dia. x 5⅜"L. Weighs 2.9 oz.

			EACH Prices	
	Description	Item#	1-2	3+
C.	#28 Handpiece with 3/32" and 1/8" collets	**850-1348**	**$49.00**	**$46.55**
	Replacement 3/32" Collet	850-5040	8.00	-
	Replacement 1/8" Collet	850-5050	8.00	-
	3mm Collet	**850-5060**	**8.00**	**-**

D, E Foredom® #20/#20D Quick-Change Handpiece

Lever action allows instant tool changes. Wider metal body is designed to stay cooler. Front-end tapers to a molded plastic grip for close, easy handling. Prelubricated ball bearings require no oil. Accepts 3/32" shanks only. Measures 1⅛"–⅜" dia. x 5⅝"L (without duplex). Weighs 4 oz.

			EACH Prices	
	Description	Item#	1-2	3+
D.	#20 Handpiece	**850-1280**	**$79.00**	**$75.05**
E.	#20D Handpiece with Duplex Spring	**850-1285**	**89.00**	**84.55**
	Replacement 3/32" Collet	850-5425	10.50	-

View instructional video at www.gesswein.com.

F, G Foredom® #10/#10D Handpiece

Features a quick-release lever for rapid tool changing. Prelubricated ball bearings require no maintenance. Accepts 3/32" shanks only. Measures ¾" dia. x 10¾"L (without duplex). Weighs 5 oz.

			EACH Prices	
	Description	Item#	1-2	3+
F.	#10 Handpiece	**850-1252**	**$245.00**	**$232.75**
G.	#10D Handpiece with duplex spring	**850-1253**	**260.00**	**247.00**
	Replacement 3/32" Collet	850-1254	56.50	53.68

H, I Foredom® #52/#52D Handpiece

Lightweight handpiece with plastic housing. Features a simple yet effective quick-change mechanism for changing tools in seconds: just push chuck out to open, remove old tool, insert new one and pull chuck back to lock in place. Permanently lubricated ball bearings ensure smooth operation. Accepts 3/32" shanks only. Measures ¾" dia. x 6" (without duplex). Weighs 3.1 oz.

			EACH Prices	
	Description	Item#	1-2	3+
H.	#52 Handpiece	**850-1460**	**$120.00**	**$114.00**
I.	#52D Handpiece with duplex spring	**850-1461**	**130.00**	**123.50**

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A, B Foredom® #18/#18D Quik Change™ Handpiece

Allows faster bur changes for improved productivity. Ideal for stone setting and applications that require many bur changes. Has permanently lubricated ball bearing for cool and quiet continuous operation. Includes 3/32" collet. Measures 5/8" dia. x 7"L (without duplex). Weighs 3.5 oz.

	Description	Item#	EACH Prices 1-2	3+
A.	#18 Handpiece	**850-1325**	**$115.00**	**$109.25**
B.	#18D Handpiece with duplex spring	**850-1320**	**129.00**	**122.55**
	Replacement 3/32" Collet	850-5485	28.00	26.60

C, D Faro Handpiece

Exceptionally cool-running handpiece with quick-release lever for rapid tool changing. Accepts 3/32" shanks only. Includes 3/32" collet. Measures 11/16" dia. x 6 3/4"L (without duplex). Weighs 7 oz. Made in Italy.

	Description	Item#	Each
C.	Faro Handpiece	**850-1960**	**$190.00**
D.	Faro Handpiece with duplex spring	**850-1950**	**255.00**
	Replacement 3/32" Collet	850-1964	54.00

E. SVTN-S Handpiece

Right angle handpiece with a telescopic head. Maximum extension is 3 1/4". Excellent for hard-to-reach areas. Complete with 1/8" and 3/32" collets as well as a wrench for changing collets. Replacement collets available. Optional 3mm collet also available. Handpiece measures 3/4" diameter x 7 3/4" long. Weighs 6 1/2 oz. This handpiece is an update to the older VTX model. Imported.

	Description	Item#	Each
E.	SVTN-S Handpiece	**850-2150**	**$725.00**
	Replacement 3/32" Collet	850-5340	31.60
	Replacement 1/8" Collet	850-5350	31.60
	3mm Collet	**850-5255**	**59.60**

F, G 8/#8D Handpiece

Has prelubricated ball bearings for sustained operation at high speeds without overheating. Allows fingertip operation of collet chuck for quick changing of tools. Features sliding protective sleeve for close work. Includes 3/32" collet. Measures 3/4" dia. x 6"L (without duplex). Weighs 4 oz.

	Description	Item#	Each
F.	#88 Handpiece	**850-1250**	**$49.75**
G.	#8D Handpiece with duplex spring	**850-1300**	**60.00**
	1/16" Collet	**850-5030**	**8.00**
	Replacement 3/32" Collet	850-5040	8.00
	1/8" Collet	**850-5050**	**8.00**
	3mm Collet	**850-5060**	**8.00**
	Set of all 4 inch-size collets	**850-5010**	**30.00**

H. Chicago Pneumatic Air Scribe® – CP9361

The Chicago Pneumatic Air Scribe has a carbide stylus that writes as easily as a ballpoint pen on a variety of metals up to 64 HRC. Use with Filter/Regulator/Lubricator (see p. 248). Includes 8' reinforced hose. Requires less than 1 CFM of air. Measures 11/16" dia. x 4 3/4"L. Weighs 5 oz.

	Description	Item#	Each
H.	Pneumatic Air Scribe CP9361	**850-7395**	**$285.00**
	On/Off Foot Pedal	**850-7394**	**59.95**
	Flat Tip	**850-7399**	**81.00**
	Round Tip	**850-7397**	**76.00**
	Blank Tip	**850-7398**	**41.20**
	Replacement Carbide Stylus	850-7396	31.00

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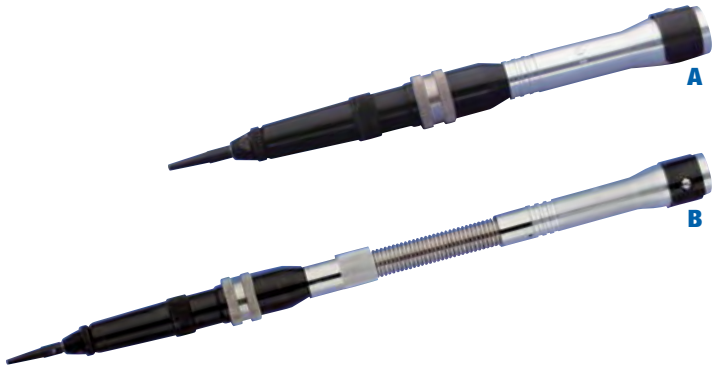
A, B Foredom® Hammer Handpiece #15/#15D – 5,000rpm

Hammer handpiece with reciprocating action for stone setting and decorative work. Has 1/32" stroke with adjustable impact. Includes anvil point. Can also be used with Pavé Point for special texturing or Carbide Stylus for texturing, marking or scribing hardened steel. Speed range for most applications: 0–5,000rpm. Measures 1/2" dia. at tip x 9 1/2"L (without duplex). Weighs 4 oz.

	Description	Item#	EACH Prices 1-2	3+
A.	#15 Handpiece	**850-1270**	**$108.00**	**$102.60**
B.	#15D Handpiece with duplex spring	**850-1272**	**118.00**	**112.10**
	Optional Pavé Point	**850-1275**	**38.00**	**36.10**
	Optional Carbide Stylus	**850-1274**	**30.50**	**28.98**
	Replacement Anvil Point	850-1273	6.00	5.70



C. Technique Hammer Handpiece – 5,000rpm

Features a lightweight, slender body that you can hold comfortably for long periods. Runs with very little vibration. Includes screw-in pointed tip. Optional tips available (see below). Measures 1/2" dia. x 5 1/2"L (without duplex). Weighs 2 oz. Precision-made in Switzerland.

	Description	Item#	Each
C.	Technique Handpiece	**850-1295**	**$220.00**
	Technique Handpiece with duplex spring	**850-1290**	**245.00**

D, E Badeco Swiss Hammer Handpiece – 5,000rpm

Provides adjustable striking force for closing bezels and prongs or creating textures. Minimizes vibration for comfortable extended use. Includes Round Flat Tip #850-3720. Additional tips available (see below). Measures 1/2" dia. x 9 1/2"L (without duplex). Weighs 6 oz.

	Description	Item#	Each
D.	Badeco Swiss Handpiece	**850-1333**	**$295.00**
E.	Badeco Swiss Handpiece with duplex spring	**850-1330**	**375.00**

Badeco Hammer Handpiece Tips

For Technique and Badeco Swiss Hammer Handpieces (see above).

Description	Item#	Each
Round Flat Tip, 4mm	**850-3720**	**$22.00**
Round Concave Tip, 1mm	**850-3715**	**49.50**
Rectangular Flat Tip, 1 x 2mm	**850-3725**	**49.50**
Rectangular Grooved Tip, 1.2 x 2.5mm	**850-3730**	**49.50**
Rectangular Smooth Tip, 1.2 x 2.5mm	**850-3735**	**49.50**

F. Lazer Point – Produces the brightest stippling possible

Use this unique diamond-pointed tool with our Technique or Badeco Swiss Hammer Handpiece and your flexible shaft machine. Creates a sparkling finish on gold and silver that mimics pavé. Measures 1 1/4" long.

Description	Item#	EACH Prices 1-2	3+
Lazer Point	**850-3590**	**$24.95**	**$22.46**

G. Foredom Anvil Points

These tips fit all popular brands of hammer handpieces. All 6 tips are made of heat treated solid steel with threaded shanks measuring 3/32" diameter (2.35mm). Fits 1/8-48 US and all standard 3mm threads. Fits Swiss-made Badeco hammer handpiece. Six shapes are included in the set:

- Bezel Rocker
- Slim Rectangle
- Ball Nose
- Wide Rectangle
- Cylinder
- Fine Point

Set of 6 comes in hard plastic storage box that opens to a convenient stand for easy tip selection.

Description	Item#	Each
Foredom Anvil Points	**850-3780**	**$75.00**

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Heavy-Duty Rotary Handpieces for TXH, TXMH and SRH only – For a variety of operations

Included uses are grinding, carving, drilling, deburring, engraving, polishing and more. All three handpieces have square drives and attach quickly with positive sheath locking mechanisms to TXH, TXMH and SRH flexible shaft motors (see pp. 436-437), as well as H flexible shaft motors. Have shielded ball bearings that require no lubrication. Feature compact, lightweight designs for accessing tight areas while minimizing hand fatigue.

A

A. Foredom® #25H Handpiece

Features one-piece spindle construction with permanently lubricated, double-sealed ball bearings for cool extended running. Includes 1/8" and 1/4" collets. Measures 1" dia. x 6 1/8"L. Weighs 8 1/2 oz.

	Description	Item#	EACH Prices 1-2	3+
A.	#25H Handpiece	**850-1340**	**$145.00**	**$137.75**
	1/16" Collet	**850-5200**	**18.00**	**17.10**
	3/32" Collet	**850-5210**	**18.00**	**17.10**
	Replacement 1/8" Collet	850-5220	18.00	17.10
	3/16" Collet	**850-5230**	**18.00**	**17.10**
	Replacement 1/4" Collet	850-5240	18.00	17.10
	3mm Collet	**850-5242**	**18.00**	**17.10**
	4mm Collet	**850-5245**	**18.00**	**17.10**
	Set of all 5 inch-size collets	**850-5052**	**81.50**	**-**

B

B. Foredom® #30H Handpiece

Chuck-style handpiece with prelubricated ball bearings. Features geared Jacobs chuck that accepts shanks up to 5/32". Includes chuck key without handle. Measures 1" dia. x 5 5/8"L. Weighs 7 1/4 oz.

	Description	Item#	EACH Prices 1-2	3+
B.	#30H Handpiece	**850-1355**	**$59.00**	**$56.05**
	Chuck Key with Handle	**850-3545**	**5.75**	**-**
	Replacement Chuck Key without Handle	850-3550	2.70	-

C

C. Foredom® #44HT Handpiece

Collet-type version of #30H handpiece. Includes 3/32" and 1/4" collets. Measures 1" dia. x 6 1/8"L. Weighs 8 1/2 oz.

	Description	Item#	EACH Prices 1-2	3+
C.	#44HT Handpiece	**850-1455**	**$51.00**	**$48.45**
	Replacement 3/32" Collet	850-5420	8.00	7.60
	1/8" Collet	**850-5430**	**8.00**	**7.60**
	5/32" Collet	**850-5440**	**8.00**	**7.60**
	3/16" Collet	**850-5450**	**8.00**	**7.60**
	Replacement 1/4" Collet	850-5470	8.00	7.60
	3mm Collet	**850-5475**	**8.00**	**7.60**
	6mm Collet	**850-5480**	**8.00**	**7.60**
	Set of all seven collets	**850-5400**	**49.00**	**46.55**

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A, B Foredom® TXR, FCH and FCT Foot Rheostats

Solid-state foot-operated speed controllers for exceptionally smooth control over the entire speed range. Feature heavy-duty, low-profile Rynite plastic housing with wide footpad and skid-resistant bottom for comfort and stability. Run continuously without heat buildup. Measures 6¾"L x 4½"W x 2½"H. All 50/60Hz.

	Model	Electrical	For Flex Shaft	Item#	Each
A.	TXR-1*	115V	TX, TXB, TXH, TXBH; LX, LXB	**850-3510**	**$44.50**
	FCH-1*	115V	H, HB	**850-3460**	**34.45**
	FCH-2	230V	1/6 HP SR, SRB, SRH; H, HB	**850-3461**	**35.00**
B.	FCT-1*	115V	1/6 HP SR, SRB, SRH; 1/8 HP SR, SRB; S, SB; CC; L, LB	**850-3480**	**30.00**
	FCT-2	230V	1/8 HP SR, SRB; S, SB; CC; L, LB	**850-3485**	**34.45**

**CSA Listed*

A

B

C. Foredom® SXR, SCH and SCT Foot Rheostats

Solid-state foot-operated speed controllers for immediate response with light pressure. Feature heavy-duty, low-profile cast-iron housing with ribbed top and skid-resistant bottom for comfort and stability. Run continuously without heat buildup. Measures 6¼"L x 5"W x 2¼"H. All 50/60Hz.

	Model	Electrical	For Flex Shaft	Item#	Each
	SXR-1	115V	TX, TXB, TXH, TXBH; LX, LXB	**850-3508**	**$67.50**
	SCH-1*	115V	H, HB	**850-3455**	**55.00**
	SCH-2	230V	1/6 HP SR, SRB, SRH; H, HB	**850-3456**	**59.00**
C.	SCT-1*	115V	1/6 HP SR, SRB, SRH; 1/8 HP SR, SRB; S, SB; CC; L, LB	**850-3503**	**55.00**
	SCT-2	230V	1/8 HP SR, SRB; S, SB; CC; L, LB	**850-3504**	**60.00**

**CSA Listed*

C

D. Foredom® EMX, EMH and EM Manual Speed Controllers

Dial-operated speed controllers for benchtop use—great alternatives to foot rheostats. Feature tough plastic housing with low profile for stability. Measures 6"L x 5"W x 2½"H. Also available in 230V. All 50/60Hz.

	Model	Electrical	For Flex Shaft	Item#	Each
D.	EMX-1	115V	TX, TXB, TXH, TXBH; LX, LXB	**850-3516**	**$65.00**
	EMH-1	115V	H, HB	**850-3515**	**55.00**
	EM-1	115V	1/6 HP SR, SRB, SRH; 1/8 HP SR, SRB; S, SB; CC; L, LB	**850-3511**	**55.00**

D

E. EFC - Electronic Foot Control

Heavy-duty, precision-crafted variable-speed foot rheostat with all the features of similar high-end controls at a fraction of the price. Features solid-state electronics, die-cast aluminum housing with chip-resistant enamel finish, mounting holes and grounded electrical cord. Works with any flexible shaft motor with standard three-prong connection (115V only). Measures 7¼"L x 4½"W x 2½"H.

Description	Electrical	For Flex Shafts	Item#	Each
EFC	115V	CC, EE, GG, S/SR, LX/LXB	**850-3520**	**$44.65**

E

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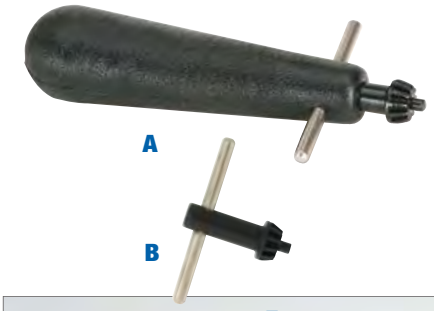
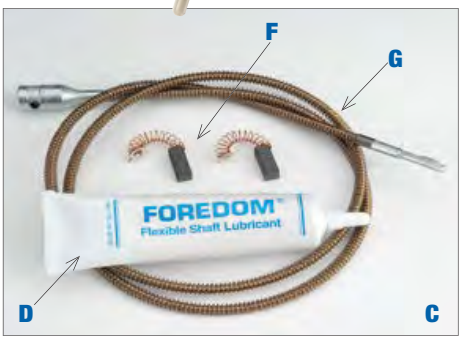


A, B Foredom® Chuck Keys

Two different chuck keys for adjusting #30 and #30H handpiece chucks. Available with or without plastic handle. Chuck key with handle measures 4⅛" long, making it easier to find and use.

	Description	Item#	Each
A.	Chuck Key with Handle	**850-3545**	**$5.75**
B.	Chuck Key without Handle	**850-3550**	**2.70**



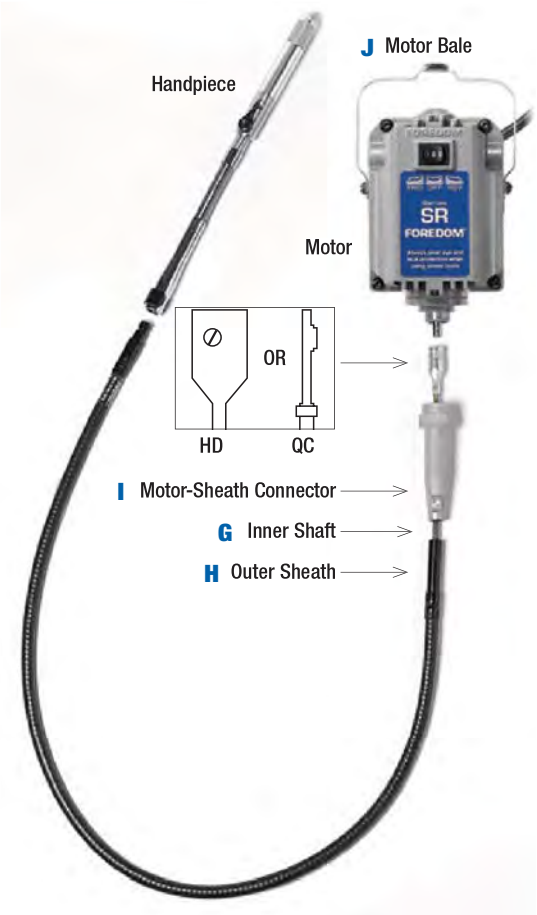
C-J Maintenance Supplies and Replacements

Maintenance kits below include inner shaft, pair of motor brushes, grease and instructions for 115V and 230V models, unless otherwise noted.

	Description	For Flex Shafts	Item#	Each
	Maintenance Kit	CC, DD, MM (115V only)	**850-4015**	**$17.25**
	Maintenance Kit	EE, GG	**850-4005**	**23.50**
C.	Maintenance Kit	S/SR, SM/SRM (1/8 HP)	**850-4017**	**17.25**
	Maintenance Kit	SR, SRM (1/6 HP)	**850-4020**	**17.25**
	Maintenance Kit	LX/LXB, TX	**850-4006**	**22.00**

	Description	For Flex Shafts	Item#	Each
D.	Flex Shaft Grease, 1 oz.	All	**850-4100**	**$3.50**
E.	Flex Shaft Oil, .25 oz.	All	**850-4105**	**4.50**

	Replacements	For Flex Shafts	Item#	Each
	Motor Brushes, pair	CC, DD, MM (110V only)	850-4110	$8.85
	Motor Brushes, pair	CC, DD, MM (220V only)	850-4113	10.50
F.	Motor Brushes, pair	EE, GG, R/RB	850-4113	10.50
	Motor Brushes, pair	H, S/SR, SM/SRM (1/8 HP)	850-4117	8.85
	Motor Brushes, pair	SR, SRH, SRM (1/6 HP)	850-4108	8.85
	Motor Brushes, pair	L/LB, LX/LXB, PG/PGX, TX, TXH	850-4119	12.50
	Brush Cap, individual	CC, EE, GG, L/LB, LX/LXB, PG/PGX, R/RB, S/SR (1/8 HP), SRH (1/8 HP), TX, TXH	850-4120	1.05

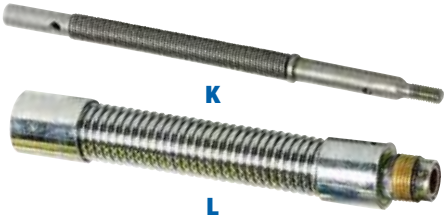


	Replacements	For Flex Shafts	Item#	Each
	Shaft/Sheath Assembly	SRH, TXH/TXBH/TXMH	850-3401	$65.00
	Shaft/Sheath Assembly	H	850-3400	59.95

	Replacements	For Flex Shafts	Item#	Each
G.	Inner Shaft	CC, K, L/LB, LX/LXB, PG/PGX, R/RB, S/SR, SM/SRM, TX	850-3395	$10.50
	Inner Shaft	EE, GG	850-3390	10.50
	Inner Shaft	SRH, TXH/TXBH/TXMH	850-3405	19.00

	Replacements	For Flex Shafts	Item#	Each
H.	Outer Sheath - Standard	CC, K, L/LB, LX/LXB, PG/PGX, R/RB, S/SR, SM/SRM, TX	850-3010	$17.50
	Outer Sheath - Standard	EE, GG	850-3000	16.25
	Outer Sheath - Neoprene	L/LB, LX/LXB	850-3015	18.90

	Replacements	For Flex Shafts	Item#	Each
I.	Motor-Sheath Connector	CC, L/LB, LX/LXB, PG/PGX, R/RB, S/SR, TX	850-2180	$3.85
J.	Motor Bale	CC, H, L/LB, LX/LXB, PG/PGX, R/RB, S/SR, TX, TXH	850-2207	1.50



K, L Replacements for Handpieces with Duplex Springs

Suitable for all Gesswein/Foredom flexible shaft handpieces except #180/00.

	Description	Item#	Each
K.	Inner Duplex Spring with connectors	**850-2223**	**$11.75**
L.	Outer Duplex Spring Cover	**850-3802**	**15.00**

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A. Adjustable Telescoping Flex Shaft Hanger

Now you can adjust the height of your flex shaft motor in seconds. Sturdy metal rod attaches firmly to bench with three screws. Height can then be set at 26" to 41" by simply adjusting wing nut. Swivel arm at top allows easy rotation of motor. Imported.

Description	Item#	Each
Adjustable Telescoping Flex Shaft Hanger	**850-0501**	**$24.50**

See more hangers at www.gesswein.com

A

B, C Foredom Flex Shaft Hangers

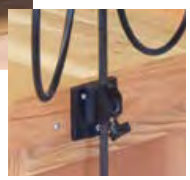
Features a 3-piece hexagonal support rod, top safety hook rod for holding one or two motors. Select the hanger with a sturdy bench clamp for attaching to any bench top up to 2¼" thick or base to screw to the top or side of your work surface. The rod height can be adjusted with the locking screw built onto the clamp.

Comes with a Handpiece Rest that slides onto the hanger pole and secures your handpieces when not in use. Also has two Spring Safety Clips that slide over the motor bale and on to the hanger rod to keep the motor(s) from jumping and twisting during start up and acceleration.

Assembly of the hanger is simple with the supplied couplings and set screws. When properly assembled, it is as strong as any model we've previously offered.

	Description	Item#	Each
B.	Foredom Flex Shaft Hanger with Clamp	**850-0506**	**$48.50**
C.	Foredom Flex Shaft Hanger with Base	**850-0507**	**68.50**

B



C

D, E Handpiece Holders

Accept Foredom flexible shaft handpieces

Economical holders for converting your Foredom flexible shaft machine into a high-speed lathe. Let you grind, polish, sand and carve while both hands control the workpiece. Adjust to hold handpieces up to 10" above the workbench and rotate 360°. Clamp to benchtops up to 1¾" thick.

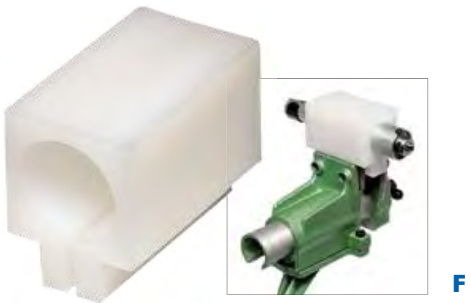
	Description	Item#	Each
D.	Holder for #30, #30H, #44T and #44HT Handpieces	**850-0605**	**$36.79**
E.	Holder for #35 Handpiece	**850-0607**	**36.79**

D E

F. Nylon Jiffy Jig – Accepts 1" diameter handpieces

A convenient block for holding jeweler's handpieces in place. Leaves your hands free for cutting, grinding and polishing operations. Just place the block in your vise, pull handpiece through it, tighten the vise and you're ready to go. Tools in the handpiece can be easily changed without removing handpiece from the block. Accepts Foredom #30 handpiece and other 1" diameter handpieces.

Description	Item#	Each
Nylon Jiffy Jig	**850-0608**	**$11.90**



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A

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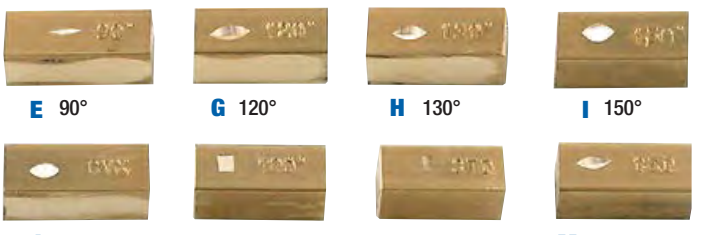
E F G H I J K L M



E 90° G 120° H 130° I 150°

J Dome K Flat L Florentine M 130° Practice

A. Foredom® Drill Press DP-39

A perfect addition to your shop. Works with your flexible shaft and 1" diameter handpiece, such as the #30, #30H, #44T or #44HT. Securely holds handpiece for drilling accurate holes. Equipped with a dial indicator for precise control of vertical handpiece movement in 0.01mm increments. Features sturdy cast-iron construction with smooth action, adjustable head with precision locking mechanism, drill depth scale and spring return. Handpiece holder and table are adjustable for maximum flexibility. Table can also be swung away for drilling large pieces. Ship. Wt. 10 lbs.

Specifications:

Throat Height	2"
Stroke Length	1¼"
Post Diameter	¾"

Dimensions:

Overall	4"W x 5¾"D x 15¼"H (not including handle)
Table	3¼"W x 3¼"D
Base	4"W x 5"D

Description	Item#	Each
Drill Press DP-39	**850-0591**	**$239.00**

B. Foredom® Mini Vise

Securely holds small parts. Has 1¾" slotted grooves in the base for mounting on a drill press or bench. Stationary jaw has a perpendicular V-groove, and movable jaw has a horizontal V-groove for holding round stock or tube. Jaw width: 1¾". Jaw opening: 1¾". Measures 4"L x 2⅜"W x 1½"H. Glare-free black finish.

Description	Item#	Each
Mini Vise	**820-4700**	**$23.50**

C. Benchtop Drill Press

Small and compact describes this 110V drill press. The base measures 6.75" x 6.75" with a drill clearance of 5". Drill press has three settings that allow for a range of 0-8,500 RPM. When space is an issue, this drill press will perform with ease. The Jacobs chuck accepts bits up to 6mm. One year warranty. Weighs 13 lbs. Canada safety approved.

Description	Item#	Each
Bench Drill Press	**850-0595**	**$79.95**

D. Drill Press Vise

All aluminum vise has slots to attach to benchtop drill press #850-0595 (above) quick jaw release feature for ease of use. Jaw width 2⁹⁄₁₆". Jaw opening 2¾". Measures 9½"L x 4½"W x 2¼"H.

Description	Item#	Each
Drill Press Vise	**850-0594**	**$12.95**

E-M Diamond Flywheels – 3mm Shank

These flywheels produce the most decorative bright cuts you've ever seen, helping your jewelry really stand out from the rest. Contain natural grade-A diamonds for fast, easy bright cutting. When used with a high-speed rotary handpiece (minimum 30,000rpm), these flywheels make bright cuts in seconds. Can be resharpened. Have 3mm shanks. We strongly recommend that you purchase a practice carbide wheel—flywheels are not covered by warranty.

	Description	Item#	EACH Prices 1-2	3+
E.	90° Flywheel	**845-1400**	**$46.50**	**$41.85**
F.	110° Flywheel	**845-1407**	**50.60**	**45.54**
G.	120° Flywheel	**845-1401**	**46.50**	**41.85**
H.	130° Flywheel	**845-1404**	**46.50**	**41.85**
I.	150° Flywheel	**845-1405**	**46.50**	**41.85**
J.	Dome Flywheel	**845-1406**	**55.80**	**50.22**
K.	Flat Flywheel	**845-1402**	**46.50**	**41.85**
L.	Serrated Florentine Flywheel	**845-1403**	**55.80**	**50.22**
M.	130° Practice Carbide Wheel	**845-1410**	**34.20**	**-**

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A, B Jump Ringer™ System

A money-saving system for making your own jump rings in seconds!

Make perfectly uniform jump rings with inside diameters from 1.5mm to over 25.4mm (1"). Cuts plain and fancy gold, silver, gold-filled, copper, brass, aluminum and niobium wire. Will not cut iron, steel, titanium or platinum wire.

Features precision-engineered winder with greased nylon bearings for ultra-smooth action. Winds stock wire into a coil, which you then place in a holder and cut apart into jump rings using your flex-shaft and a #30 handpiece with the supplied rotary sawblade. Has unique safety guard/guide that protects your fingers during cutting and ensures jump rings are cut straight and on-center.

Jump Ringer System includes winder, 5" coil, coil holder, safety guard/guide for your #30 handpiece, rotary sawblade with mandrel, chuck key and three round steel mandrels in 0.094", 0.141" and 0.234" diameters. **Works with Mandrel Sets (see below) to make jump rings in a wide range of sizes and shapes.** If you have your own method of cutting, you can purchase the Winding Set separately. Includes winder, chuck key and three round steel mandrels. Or if you have your own method of winding, you can purchase the Cutting Set separately. Includes coil holder, safety guard/guide for your #30 handpiece and rotary sawblade with mandrel.

A

B

	Description	Item#	Each
A, B	Complete Jump Ringer System (A and B)	**815-2011**	**$348.00**
A.	Jump Ringer Winding Set	**815-2014**	**124.75**
B.	Jump Ringer Cutting Set	**815-2013**	**248.90**
	Replacement Sawblade	815-2015	12.99

C-E Jump Ringer™ – Mandrel Sets

Use with your Jump Ringer. Oval and Square Mandrel Sets include seven brass mandrels each and require use of Multi-Shape Coil Holder to securely hold when cutting. Round Mandrel Set includes 16 round steel mandrels. All mandrels measure 3¾" long.

Mandrel Sizes:

- Oval Mandrel Set: 1.4 x 2.6, 2.1 x 3.4, 2.7 x 4.4, 3.8 x 6.2, 4.3 x 7.5, 6.2 x 11.5 and 9.2 x 14.6mm sizes
- Square Mandrel Set: 2.0, 3.0, 3.5, 4.5, 6.0, 9.0 and 12.0mm sizes
- Round Mandrel Set: 0.063", 0.078", 0.094", 0.125", 0.141", 0.156", 0.172", 0.188", 0.219", 0.234", 0.281", 0.313", 0.359", 0.391", 0.438" and 0.469" diameters.

C

D

E

	Description	Item#	Each
C.	Oval Mandrel Set	**815-2034**	**$56.00**
D.	Square Mandrel Set	**815-2036**	**56.00**
E.	Round Mandrel Set	**815-2020**	**95.45**
	Multi-Shape Coil Holder	**815-2038**	**124.75**

F. PEPETOOLS Jump Ringer JRM2 – Better Than Ever!

The perfect set for winding your own jump rings easily in consistent sizes. Use the Rotary Winder and winding rods to wrap wire into a coil, which can then be cut into jump rings using the circular sawblade in your #30 handpiece. Ship. Wt. 8lbs. Made in USA.

- Includes Rotary Winder, 20 steel winding rods, circular sawblade, handpiece holder, precision machined cutting box, and aluminum base (9"L x 4½"W).
- Winding rods are 4" long in mm sizes: 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, and 12.0mm.
- Included 1¼" circular sawblade cuts up to 18 gauge/1.0mm soft wire. Optional 1½" sawblade cuts up to 16 gauge/1.2mm.

Made in the USA

F

View instructional video at www.gesswein.com.

	Description	Item#	Each
F.	PEPETOOLS Jump Ringer	**856-0445**	**$189.00**
	Optional Circular Sawblade 1½"	**856-0443**	**15.00**
	Replacement Sawblade 1¼"	856-0442	12.00

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Flexible Shaft Drive Di-Profilers

The Di-Profiler attaches to any standard Gesswein/Foredom flexible shaft machine except models TXH, TXMH and H. This precise, fast-action, easy-to-operate reciprocating tool is ideal for profile polishing, filing (see p. 311 for steel files), honing and lapping straight and curved surfaces and finishing complicated dies and molds. Each Di-Profiler allows easy stroke adjustments for fast, precise work. Spring-cushioned to prevent damage to workpiece or tool.

A, B Classic Flex Shaft Drive Di-Profilers

The flex shaft driven Di-Profiler is the tool maker's traditional go-to machine for reciprocating applications. Connects to any standard Gesswein/Foredom flexible shaft machine except models TXH, TXMH, and H. Can be used for light and heavy duty polishing, filing, honing and lapping jobs. For best results and reduced vibration, operate between 5,000 and 7,000 RPM with a stroke length between 1-3mm. Optional finger sleeve available to improve guidance. See page 431 for full details.

Available in two models: ¼" chuck capacity (FPS) or ⅛" chuck capacity (FPC). Comes complete with operations guide, rubber sleeve, storage case, wrench and lubricating oil. Adjustable stroke length 0-6mm. 8,000 RPM Maximum.

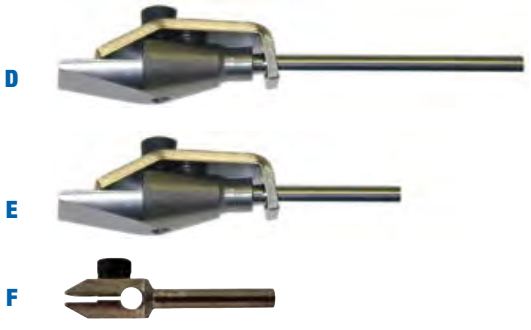
	Description	Item#	Each
A.	FPS Di-Profiler ¼" for Flex Shaft	**850-1919**	**$1,195.00**
	FPS Di-Profiler Complete Kit ¼" for Flex Shaft*	**850-1929**	**1,395.00**
	Rubber Grip	**850-1937**	**59.95**
B.	FPC Di-Profiler ⅛" for Flex Shaft	**850-1827**	**1,185.00**
	FPC Di-Profiler Complete Kit ⅛" for Flex Shaft**	**850-1928**	**1,395.00**
	Rubber Grip	**850-1937**	**59.95**

**Includes FPS Di-Profiler, TX flex shaft, TXR-1 foot rheostat.*
***Includes FPC Di-Profiler, TX flex shaft, TXR-1 foot rheostat.*

C. FMR Mini-Filers

Each attaches to any standard Gesswein/Foredom flexible shaft machine except models TXH, TXMH and H. Designed for light-duty profiling work. Ergonomic design results in effective finishing and polishing. Slim nose is especially useful in tight spaces. Holds tools up to 3.6mm in diameter (see diamond poli files on pp. 109-110). Max. operating speed: 10,000 strokes per minute (5,000–7,000 strokes per minute recommended). Measures 5¼"L x 1" dia. Weighs 5.5 oz.

Length of Stroke	Item#	Each
0.5mm	**850-1923**	**$647.00**
1.0mm	**850-1924**	**647.00**
1.5mm	**850-1922**	**647.00**



D-F Tool Holders – For all Di-Profiler models

	Description	Item#	Each
D.	Universal Tool Holder (holds up to 6mm thick and 8mm wide) – 3mm shank	**403-1050**	**$57.50**
E.	Mini-File Stone Holder (holds flat or round stones or tools up to ⅛" thick) – 3mm shank	**403-1040**	**28.50**
F.	Ceramic Stone Holder (holds up to 1mm thick and up to 8mm wide) – 3mm shank	**403-1045**	**33.30**

Safety Recommendations **For FPS and FPC Di-Profilers as well as FMR Mini Filers and Micromotor Drive Di-Profilers**

Prolonged use of vibrating or reciprocating tools may result in vibration-induced circulation problems in the hands. Always follow safe operating procedures. Using hand protection (i.e., insulated gloves) and taking frequent breaks can help minimize but not guarantee against injury. Operating these types of tools in cold weather or with a tight grip will reduce the period of operation before risking potential injury. Individuals with a tendency to suffer from poor circulation, frequently cold fingers or itchy hands should closely monitor the condition of their hands. If symptoms appear, seek medical advice immediately.

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Micromotor Drive Di-Profilers

Gesswein is proud to offer our newest Di-Profiler systems. The Professional and Classic MM Drive Di-Profilers are built with a micromotor inside every handpiece and can connect directly to any Gesswein Power Hand controller. Eliminates the need for noisy flexible shaft motors and greasy hanging cables. Available in Professional and Classic models.

A, B Professional Micromotor Drive Di-Profiler

Maximum efficiency, minimal vibrations

Simply the best reciprocating handpiece in the market today, the Professional Di-Profiler combines ergonomic design and heavy duty power. A counter balance weight system located on the opposite end of the tool holder reduces vibration levels. As the tool reciprocates, the counter balance weight reciprocates in the opposite direction thereby stabilizing the handpiece. As a result, vibration in the user's hand is greatly reduced. Comes complete with operations guide, rubber sleeve, storage case, wrench and lubricating oil. Adjustable stroke length 0-6mm. 8,000rpm maximum.

	Description	Item#	Each
A.	Professional MM Di-Profiler 1/8" chuck capacity	**850-1912**	**$2,095.00**
B.	Complete Kit (Includes Professional Di-Profiler 1/8" chuck capacity, Marathon controller and variable speed foot rheostat)	**850-1943**	**2,245.00**

C, D Classic Micromotor Drive Di-Profiler

Comes complete with operations guide, rubber sleeve, storage case, wrench and lubricating oil. Adjustable stroke length 0-6mm. 8,000 RPM maximum.

	Description	Item#	Each
C.	MM Di-Profiler 1/8" chuck capacity	**850-1914**	**$1,795.00**
D.	MM Complete Kit (Includes MM Di-Profiler 1/8" chuck capacity, Marathon controller and variable speed rheostat)	**850-1945**	**1,945.00**

Extension

E. Protective Finger Sleeve

The finger sleeve will improve guidance of the tool as there is no longer any need for putting your finger on moving tools or machine parts. Simply attach the finger sleeve to the Di-Profiler (instructions included). Now the user can place their fingers over the steady finger sleeve while the tool is reciprocating underneath. Comes with 2 1/8" extension pipe for longer tools. Compatible with all micromotor and flex shaft drive Di-Profilers.

	Description	Item#	Each
E.	Finger Sleeve Package for Di-Profiler 1/4"	**850-1917**	**$240.00**
	Finger Sleeve Package for Di-Profiler 1/8"	**850-1916**	**223.00**

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Air Grinders Specially selected for mold, tool and die makers

These air-operated rotary handpieces are perfect for precision grinding and deburring. Use reciprocating models for honing and lapping. All require Filter/Regulator-Lubricator except NSK Presto Air Turbine.

A, B Suhner® Swiss Grinders

80,000rpm, right-angle and straight rotary handpieces

These grinders achieve maximum power with minimum air consumption. Rigid rotary-vane motors provide exceptional performance and speeds up to 80,000rpm. Excellent for carbide and CBN tools. Use for milling, grinding, engraving and polishing. Light, well-balanced ergonomic design reduces operator fatigue. Scratch- resistant insulated plastic housing reduces noise level and keeps hands warmer. Additional features include precision sealed bearings, rear speed controls and rugged construction for extended heavy-duty use. Choose from slim right-angle or straight grinder with rear speed controls. Both supplied with 1/8" collet and wrench. Each requires 1/8" NPT coupler and 1/4" ID hose (see p. 457 for #850-7323). Use with Filter/Regulator-Lubricator (see p. 248). Right-angle handpiece measures 6 3/4"L x 3/4" dia. Weighs 7 oz. Straight handpiece measures 6"L x 3/4" dia. Weighs 4.2 oz.

	Model	Max. RPM	PSI	CFM	Item#	Each
A.	Right-Angle	80,000	90	6.6	**850-7320**	**$795.00**
B.	Straight	80,000	90	6.6	**850-7300**	**770.00**

	Collets	Item#	Each
	Replacement 1/8" for Right-Angle	850-7329	$54.00
	Replacement 1/8" for Straight	850-7327	54.00
	Optional 3/32" for Right-Angle	**850-7331**	**54.00**
	Optional 3/32" for Straight	**850-7325**	**54.00**

C. High-Speed Rotary Air Grinder HS80 – 80,000rpm

High-speed, quiet-running, well-balanced rotary handpiece for deburring and finishing. Ideal for precision grinding. Includes 1/8" collet (optional 3/32" and 3.0mm collets also available). Supplied with air hose, coupler and tool changing wrenches. Requires Filter/Regulator-Lubricator (see p. 248). Measures 5 5/8"L x 13/16" dia. Weighs 5.7 oz.

	Model	Max. RPM	PSI	CFM	Item#	Each
C.	HS80	80,000	90	1.77	**850-2235**	**$174.00**

	Description	Item#	Each
	Optional HS80 3/32" Collet	**850-2236**	**$6.50**
	Optional HS80 3.0mm Collet	**850-2237**	**6.50**
	Replacement HS80 1/8" Collet	850-2238	6.50

D, E UHT (Ushio) Air Grinders

53,000 and 65,000rpm, slim and lightweight pencil-like design

Quiet running handpieces ideal for many applications, including precision grinding, finishing and polishing. Feature self-lubricating vanes for dependable performance. Unique 1/8" fixed collet design provides extra-long ball bearing life and reduces heat buildup.

The Contra-Angle 120° model allows access to hard-to-reach, deep areas. Both offer rear speed control and rear exhaust. Supplied with 5' of 3/16" air hose, 1/4" NPT coupler, 13" exhaust hose, wrench and pin. Use with Filter/Regulator-Lubricator (see p. 248). Contra-angle handpiece measures 5"L x 5/8" dia. Weighs 5 oz. Straight handpiece measures 5 5/8"L x 5/8" dia. Weighs 4.5 oz.

	Model	Max. RPM	PSI	CFM	Item#	Each
D.	Contra-Angle	53,000	85	4.2	**850-0905**	**$335.00**
E.	Straight	65,000	85	4.2	**850-0900**	**299.00**

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A. NSK Impulse Pencil Air Grinder – 60,000rpm

Features a special vane design that maintains speed even under load, providing smooth and stable grinding action. Design allows sensitive control of cutting tool. Exhaust hose with silencer keeps noise to a minimum. Rotating joint prevents hose from twisting. Supplied with 1/8" collet and chuck key; 3/32" and 3mm collets available separately. Use with Filter/Regulator-Lubricator (see p. 248). Warranty 6 months. Subject to inspection. Measures 6 3/4"L x 1" dia. Weighs 5.9 oz.

	Max. RPM	PSI	CFM	Item#	Each
A.	60,000	56-85	5.83	**850-7230**	**$385.00**
	Collets			Item#	Each
	Optional 3/32" Collet			**850-7232**	**48.00**
	Optional 3mm Collet			**850-7233**	**48.00**
	Replacement 1/8" Collet			850-7231	48.00

B. High-Torque Precision Air Grinder HT60 – 60,000rpm

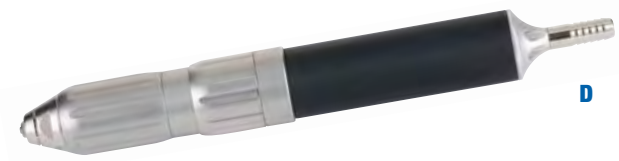
High-torque, quiet-running, well-balanced rotary handpieces for deburring and finishing work. Supplied with air hose, coupler and tool changing wrenches. Requires Filter/Regulator-Lubricator (see p. 248). Measures 5 5/8"L x 11/16" dia. Weighs 6.4 oz.

	Model	Max. RPM	PSI	CFM	Item#	Each
	HT60 - 3/32"	60,000	90	4.1	**850-2225**	**$134.00**
	HT60 - 3mm	60,000	90	4.1	**850-2221**	**134.00**
B.	HT60 - 1/8"	60,000	90	4.1	**850-2230**	**134.00**

C. Nitto Kohki Air Sonic – 35,000rpm, high-torque handpiece

The rugged Nitto Kohki Air Sonic high-torque unit provides maximum power for grinding, deburring, production grinding on small castings and removing welding slag. Rear exhaust and built-in air silencer ensures quiet operation. Supplied with 1/4" to 1/8" reducing collet sleeve, 5' of 1/4" hose with 1/2" NPT coupler, 19" exhaust hose and wrenches. Use with Filter/Regulator-Lubricator (see p. 248). Measures 7"L x 1 1/4" dia. Weighs 1 lb.

	Model	Max. RPM	PSI	CFM	Item#	Each
C.	L-35B	35,000	85	12.3	**850-7012**	**$300.00**
	Reducing Collet Sleeves				Item#	Each
	Optional 1/4" to 3/16"				**850-7016**	**$15.17**
	Replacement 1/4" to 1/8"				850-7015	15.17



D, E NSK Presto Air Turbine – 320,000rpm, no lubrication required

Use this lightweight, ultra-high-speed, non lube rotary air turbine for delicate, precision applications. Features a unique dust protection mechanism that not only blows away loose powder to improve cutting efficiency but also cools the cutting tool to extend service life. For use with 1/16" tools. Purchase handpiece and hose alone, or purchase set complete with handpiece, hose, air line filter, regulator, foot control and handpiece rest. 6 month manufacturers warranty. Air turbine measures 4 1/2"L x 5/8" dia. Weighs 2.5 oz.

	Max. RPM	PSI	CFM	Item#	Each
D.	320,000	35	1.4	**850-7236**	**$390.00**
	Description			Item#	Each
E.	NSK Set			**850-7235**	**$720.00**

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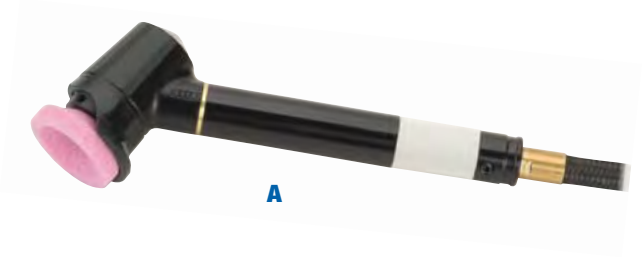
A

B

C

D E

F

A, B Angle Surface Air Grinder AG22 – 22,000rpm

A 120°-angle rotary handpiece for grinding, chamfering, deburring and finishing welds and larger surface areas. Includes collet chuck with M7 screw shaft for mounting abrasive cup wheels and abrasive discs. Supplied with air hose, coupler, 30mm cup wheel (60 grit), ten 30mm PSA discs (60, 100 and 150 grit), 30mm PSA disc holder and changing tool for cup wheels and PSA disc holder. Requires Filter/Regulator-Lubricator (see p. 248). Measures 6⅜"L x ⅝" dia. Weighs 7 oz.

	Max. RPM	PSI	CFM	Item#	Each
A.	22,000	90	3.0	**850-2240**	**$204.00**
	Description	**Dia.**	**Grit**	**Item#**	**Box of 48**
	AG22 Cup Wheel	30mm	60	**850-2242**	**$42.00**
			100	**850-2243**	**42.00**
			150	**850-2244**	**42.00**
	Description	**Dia.**	**Grit**	**Item#**	**Box of 150**
B.	AG22 PSA Disc	30mm	60	**850-2229**	**$27.50**
			100	**850-2231**	**27.50**
			150	**850-2232**	**27.50**
			240	**850-2233**	**27.50**
			320	**850-2234**	**27.50**
			400	**850-2239**	**27.50**
	Description	**Dia.**		**Item#**	**Each**
	AG22 PSA Disc Holder	30mm		**850-2241**	**$3.50**

C. Nitto Kohki Air Angle Disc Sander

22,000rpm, high-torque handpiece

This 22,000rpm, powerful 2" right-angle ¼" collet sander is lightweight and compact for continuous sanding in small, confined areas. Abrasive disc capacity: 2". One-touch twist lock allows efficient abrasive disc holder replacement. Includes side exhaust with silencer. Safety lock helps prevent accidents. Requires ¼"–⅜" NPT air connection. See p. 63 for ¼" PSA Disc Holders with ¼" shanks and PSA Discs. Use with Filter/Regulator-Lubricator (see p. 248). Measures 5" x 1½" dia. Weighs 1.1 lbs.

Max. RPM	PSI	CFM	Item#	Each
22,000	85	14.2	**850-7013**	**$320.00**

D, E UHT Ushio Micro-Angle Surface Air Grinder

Quiet-running handpieces are ideal for precision grinding, finishing and polishing. Feature self-lubricating vanes for dependable performance. Read speed control and rear exhaust.

Supplied with 5' of 3/16" air hose and ¼" NPT coupler. Airline filter/regulator/lubricator required. Both 90° and 120° handpieces optimize ergonomics and offer 7mm threaded shaft for delivering maximum torque to 30mm diameter grinding, sanding, and buffing tools. Made in Japan.

	Description	CFM	Item#	Each
D.	UHT Air Grinder 90°	4.2	**850-0890**	**$335.00**
E.	UHT Air Grinder 120°	4.2	**850-0895**	**335.00**

F. Air-Operated FPD Di-Profiler Set – 10,000 strokes/min.

Employs a high-quality, variable-speed, air-driven reciprocating handpiece similar to our popular Di-Profilers on pp. 448-449. In addition to FPD Di-Profiler, set includes air line, filter/regulator-lubricator, lubricating oil, 5' of reinforced flexible hose, quick-disconnect hose connector, wrench, lathe adapter post and molded storage case. Accepts tools up to ⅛" in diameter. Measures 6¾"L x 1¼" dia. Weighs 2 lbs.

Strokes/ Minute	Stroke Length	PSI	CFM	Item#	Each
10,000	0–6.0mm	57	0.18–2.3	**850-1845**	**$2,695.00**

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A-C Turbo Air Lappers – Reciprocating handpieces

Low-vibration, quiet-running, durable reciprocating handpiece with a short stroke. Perfect for polishing ribs, slots and other tight areas. Produces great results with Diamond Poli Files (see pp. 109-110) and Super Ceramic Stones (see pp. 468-469). These color coded models are supplied with air hose, coupler, foam sleeve and three tool holders for 1mm to 1/8" flat tools and 3mm round tools. Requires Filter/Regulator-Lubricator (see p. 248). UTR-30, measures 7 7/8"L x 1 3/32" dia., weighs 6.7 oz. UTR-70, measures 8"L x 1 1/8" dia. Weighs 6.7 oz.; UR-120, measures 8 3/16"L x 1 3/16" dia. Weighs 6.0 oz. 90 day manufacturers warranty.

	Description	Strokes/ Minute	Stroke Length	PSI	CFM	Item#	Each
A.	UTR-30	30,000	0.3mm	90	1.76	**850-2250**	**$318.00**
B.	UTR-70	28,000	0.7mm	90	1.76	**850-2245**	**318.00**
C.	UR-120	12,000	1.2mm	90	2.83	**850-2251**	**318.00**

Description	Accepts Tools	Item#	Each
Holder #64	1mm flat, 3mm round	850-2246	$8.50
Holder #65	1mm flat	850-2247	8.50
Holder #62	1/8" flat	850-2248	8.50

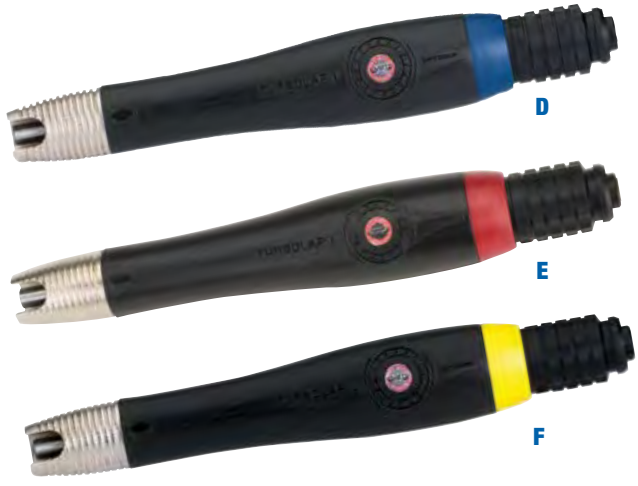
D-F UHT Ushio TurboLap Air Filers – Reciprocating handpieces

TurboLap delivers high-speed reciprocation with high torque and a short stroke. Ideal for filing, lapping and polishing molds or honing precision parts.

Makes quick work of polishing ribs, slots and intricate areas. Runs quietly and is designed to be operated for long periods without getting hot. Provides optimum results with Diamond Poli Files (see pp. 109-110) and 1mm flat Super Ceramic Stones (see pp. 468-469). Lightweight with good balance and ergonomic soft-grip design.

Three color-coded models, each supplied with hexagonal wrench, 1 Diamond Poli File, 1.5m air hose, overhose, hose bands and quick joint with filter. Accepts up to 1mm flat or 3mm round tools. Requires 1/4" NPT air connection and Filter/Regulator/Lubricator (see p. 248). Measures 7" long x 1" diameter. Weighs 5.9 ounces.

	Description	Stroke Length	Strokes per/ Minute	PSI	CFM	Item#	Each
D.	Blue	0.3mm	52,000	90	4.4	**850-0928**	**$425.00**
E.	Red	0.7mm	28,000	90	1.65	**850-0930**	**425.00**
F.	Yellow	1.2mm	19,000	90	1.65	**850-0932**	**425.00**



G. Super Hand Pneumatic Filer – 4,000 strokes/min.

A powerful reciprocating tool for an efficient way to file. Vibration-free due to its double-piston design. Accepts tool diameters up to 1/4". Comes complete with 6' hose with 1/4" NPT connector, four coarse files (three-square, half-round, flat and round tapered) and wrench. Use with Filter/Regulator-Lubricator (see p. 248). Measures 6 1/2"L x 1 1/2" dia. Weighs 2.4 lbs.

Strokes/ Minute	Stroke Length	PSI	CFM	Item#	Each
4,000	5.0mm	85.3	6	**850-7200**	**$320.00**

Safety Recommendations - For vibrating and reciprocating handpieces.

Prolonged use of vibrating or reciprocating tools may result in vibration-induced circulation problems in the hands. Always follow safe operating procedures. Using hand protection (i.e., insulated gloves) and taking frequent breaks can help minimize but not guarantee against injury. Operating these types of tools in cold weather or with a tight grip will reduce the period of operation before risking potential injury. Individuals with a tendency to suffer from poor circulation, frequently cold fingers or itchy hands should closely monitor the condition of their hands. If symptoms appear, seek medical advice immediately.

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Dynabrade

Dynabrade has earned a reputation and position of continued leadership and innovative design in the manufacturing of unique power tools. Dynabrade tools grind, debur, file, sand and polish to meet the needs of many industries. All Dynabrade portable pneumatic power tools are rigorously inspected and performance tested. If a Dynabrade tool develops a performance problem and an inherent defect is found during normal use and service, Dynabrade will warrant this tool against defects in workmanship and materials for the lifetime of the tool. Made in USA.

Made in the USA

A

A. Variable Speed Pencil Grinder – 25,000rpm

This 0.4HP pencil grinder has an adjustable tool speed from 5,000rpm to 25,000rpm. Simply rotate the rear black cover to adjust speed. Unique housing shape allows tool to be held as a traditional die grinder, or the operator can use the tactile grip on shaft end for fingertip control. ⅛" Collet, Rear Exhaust. Air Inlet thread ¼" NPT, Hose I.D. ¼" (6mm). Max air flow @ 90 PSIG (6.2 Bar): 20 SCFM.

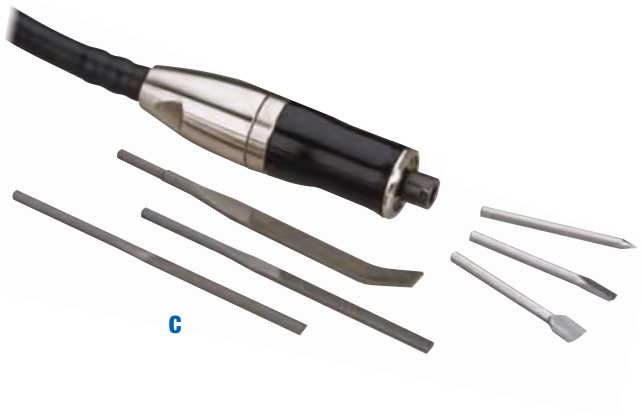
Model	Max. RPM	Item#	Each
Variable Speed Pencil Grinder	25,000	**850-6100**	**$395.00**

B

B. Extension Pencil Grinder – 35,000rpm

Reach into tighter areas for precision deburring and grinding! Collet has a 1⅛" extension, giving the user access to slots, holes and ribs. Housing features "non slip" rubber grip for additional control. 0.1HP, Turbine Air Motor, Rear Exhaust, ⅛" collet. Air Inlet thread ¼" NPT, Hose I.D. ¼" (6mm). Max air flow @ 90 PSIG (6.2 Bar): 8 SCFM.

Model	Max. RPM	Item#	Each
Extension Pencil Grinder	35,000	**850-6105**	**$435.00**



C

C. DynaPen Set – 14,000 strokes/min.

Reciprocating tool for engraving and precision deburring. Accepts scribe points, files, and chisels for countless applications. Rapid reciprocating action with .007" stroke length. Set includes Dynapen with ⅛" collet, Swiss Pattern files: Equalling, Curved, Half-Round, High Carbon Steel Scribe Point, ⅛" and ¼" wide Chisels and Wrench. Max air flow @ 90 PSIG (6.2 Bar): 7 SCFM.

Model	Max. Strokes/Min.	Item#	Each
D. Dynapen Set	14,000	**850-6115**	**$435.00**
Replacement Scribe Point	-	850-6116	$6.50
Replacement ⅛" Chisel	-	850-6117	8.85
Replacement ¼" Chisel	-	850-6118	8.85

D

D. Mini Dynafile® II – 25,000rpm

Air-powered 0.4HP, 7° Offset abrasive ½" belt tool replaces tedious hand filing and sanding. Grind, debur, blend, polish, finish and more! Multi-position head pivots 360°. Air Inlet thread ¼" NPT, Hose I.D. ¼" (6mm). Max air flow @ 90 PSIG (6.2 Bar): 20 SCFM.

Model	Max. RPM	Item#	Each
Mini Dynafile® II	25,000	**850-6119**	**$499.00**

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A. Filter/Regulator/Lubricator

Manual push-button drain easily discharges contaminants. Built-in PSI pressure dial gauge. Adjustable oil drop to meter amount of oil into air system. Each unit includes two bushings for easy conversion to 3/8" NPT. Five-micron filter element is standard. 1/2" NPT.

	Model	Item#	Each
A.	1/2" NPT Filter Regulator/Lubricator	**850-6152**	**$190.00**
	Pint-Dynabrade Air Lube	**850-6154**	**12.50**

A

B. Filter/Regulator

Manual push-button drain easily discharges contaminants. Built-in PSI pressure dial gauge. Each unit includes two bushings for easy conversion to 3/8" NPT. Five-micron filter element is standard. 1/2" NPT.

Model	Item#	Each
1/2" NPT Filter/Regulator	**850-6153**	**$185.00**

B

C. Air Hose

Air line is 66% lighter than conventional PVC and rubber hoses. High flexibility and narrow bending radius of hose prevents choking. Use to connect filter/regular/lubricator to a Dynablade tool for optimum results. Offers great flexibility, improves tool maneuverability and reduces operator fatigue. 12.7 mm outside diameter; 8 mm inside diameter.

Model	Item#	Each
Air Hose, 5ft.	**850-6158**	**$28.00**
Air Hose, 12ft.	**850-6159**	**40.00**

C

D, E Dynaswivel®

The Dynaswivel® is a "universal-joint" that connects portable air tools to an air line. Swivels 360° at two pivot points allowing the air hose to drop directly to the floor while providing superb tool handling. It improves tool maneuverability, minimizes operator fatigue and extends hose life. Never fight an air hose again! 1/4" NPT.

	Model	Item#	Each
D.	Dynaswivel®	**850-6155**	**$15.10**
E.	Dynaswivel® with Air-Flow Control	**850-6156**	**21.35**

D

E

Safety Recommendations

Prolonged use of vibrating or reciprocating tools may result in vibration-induced circulation problems in the hands. Always follow safe operating procedures. Using hand protection (i.e., insulated gloves) and taking frequent breaks can help minimize but not guarantee against injury. Operating these types of tools in cold weather or with a tight grip will reduce the period of operation before risking potential injury. Individuals with a tendency to suffer from poor circulation, frequently cold fingers or itchy hands should closely monitor the condition of their hands. If symptoms appear, seek medical advice immediately.

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Air Tool Accessories

It is extremely important that compressed air be dry, clean and regulated to a pressure suitable for the operation of any air tool. All Gesswein air tools except NSK Presto Air Turbine also require lubrication to reduce friction. To prevent water vapor condensation, filters should be installed in the air line as close as possible to the air tool.

A

B

A, B Miniature Filter/Regulator/Lubricator Assembly

For air handpieces.

Combines functions of filter, regulator and lubricator. General-purpose filter removes solid and liquid particles down to 5 microns. Regulator allows outlet pressure adjustment from 5 to 100 PSI. Micro-fog lubricator provides oil mist to lubricate moving parts of air handpieces. Has 1 oz. reservoir. Use optional bracket to mount on wall or bench. Maximum inlet pressure: 150 psi. Ports: ⅛".

Description	Item#	Each
A. Filter Assembly	**850-7349**	**$210.00**
B. Mounting Bracket	**850-7335**	**9.30**
Lube Oil, 8 oz.	**850-0985**	**25.00**
Replacement Filter	850-7369	13.50

D

C

C, D Miniature Prefilter/Coalescing Filter Assembly

Ideal for applications requiring dry and extremely clean air. Designed for air compressors rated up to 3.5 CFM. Prefilter removes liquid and solid particles down to 5 microns; coalescing filter removes particles down to 0.01 micron. Use optional bracket to mount on wall or bench. Maximum inlet pressure: 150 PSI. Ports: ¼".

Description	Item#	Each
C. Filter Assembly	**850-7353**	**$109.00**
D. Mounting Bracket	**850-7359**	**14.50**
Replacement Prefilter (white)	850-7337	19.95
Replacement Coalescing Filter (green)	850-7357	62.00

E

F

E, F Miniature Filter/Regulator

Combines the functions of filter and regulator. Filter removes solid and liquid particles in compressed air down to 5 microns. Regulator allows outlet pressure adjustment from 5 to 100 psi. Maintains nearly constant outlet pressure despite changes in inlet pressure. Use optional bracket to mount on wall or bench. Maximum inlet pressure: 150 psi. Ports: ¼".

Description	Item#	Each
E. Filter Assembly	**850-7333**	**$85.00**
F. Mounting Bracket	**850-7335**	**9.30**
Replacement Filter	850-7369	13.50

G

H

G, H Large Prefilter/Coalescing Filter Assembly

Designed for large air compressors rated up to 15 CFM. Ideal for applications requiring greater airflow. Prefilter removes liquid and solid particles down to 5 microns; coalescing filter removes particles down to 0.01 microns. Requires regulator for use with most air tools. Use optional bracket to mount on wall or bench. Maximum inlet pressure: 150 psi. Ports: ¼".

Description	Item#	Each
G. Filter Assembly	**850-7355**	**$160.00**
H. Mounting Bracket	**850-7367**	**42.00**
Replacement Prefilter (white)	850-7337	19.95
Replacement Coalescing Filter (green)	850-7365	145.00

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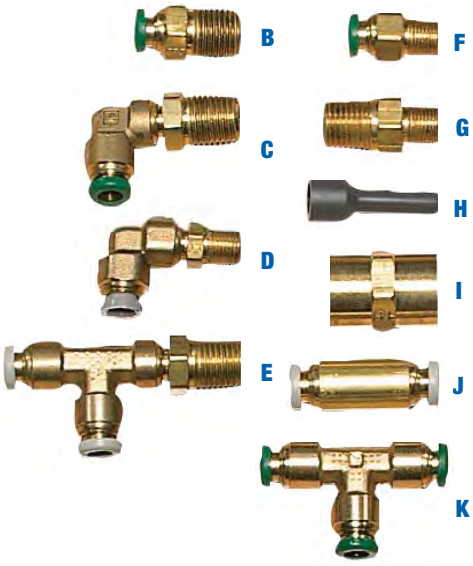
A-K Quick Disconnect Air Hose and Fittings

Sturdy ¼" O.D. nylon air hose with .040" wall thickness and a collection of timesaving quick-disconnect fittings. To connect, just push air hose into fitting—it automatically locks in place. To disconnect, push back plastic ring on fitting and pull air hose out. The ¼" and ⅛" male fittings work with a variety of sandblasters, wax injectors, sprue cutters and more. Use ¼" males for air filters, regulators and vacuum pumps.

	Description	Item#	Per Foot
A.	Nylon Air Hose, ¼" O.D.	265-2286	$0.94
	Description	**Item#**	**Each**
B.	QD Connector, Male, ¼"	265-2276	$6.85
C.	QD Elbow, Male, ¼"	265-2288	7.80
D.	QD Swivel Elbow, Male, ⅛"	265-2291	5.96
E.	QD Swivel T-Connector, Male, ¼"	265-2278	7.70
F.	QD Connector, Male, ⅛"	265-2277	3.75
G.	Nipple Reducer, ¼"–⅛"	265-2289	3.95
H.	Plug for QD ¼" Connectors	265-2283	1.60
I.	Coupling, Female, ¼" to ¼"	265-2284	2.75
J.	QD Union (Straight), ¼"	265-2282	4.65
K.	QD Union T, ¼"	265-2281	6.65
	QD Union Elbow, ¼"	265-2279	5.50



L. Variable Speed Foot Control Pedal

A disk-type foot control for use with any of our air handpieces. Sensitively and variably controls airflow from anywhere the disc is depressed. Low-profile, skid-resistant bottom. Complete with 18" length of ⅝" hose and fitting for input as well as approximately 4' of ⅝" hose for outlet to air tool.

Description	Item#	Each
Variable Speed Foot Control Pedal	850-7385	$145.00

M. Reinforced Air Hose with Fittings

This 8' long ¼" I.D. rubber hose comes with ⅛" NPT coupler and ¼" NPT coupler. Withstands air pressures up to 250 PSI.

Description	Item#	Each
Reinforced Air Hose	850-7323	$28.00

N, O Barbed Fitting and Worm Drive Clamp

Fitting works with most wax injectors and small vacuum pumps. Worm drive clamp fastens air hose securely to fitting.

	Description	Item#	Each
N.	Worm Drive Clamp	265-2274	$3.95
O.	Barbed Fitting, ¼" NPT	265-2272	5.95

P. Reinforced Air Hose

Sturdy ¼" I.D. rubber air hose reinforced to withstand air pressures up to 250 PSI. Use for compressed air and vacuum pumps. Works with barbed fittings. Sold by the foot.

Description	Item#	Per Foot
Reinforced Air Hose	265-2273	$2.50

Q, R Air Handpiece Lube Oil

	Description	Item#	Each
Q.	Air Handpiece Lube Oil, 2 oz.	850-0980	$16.50
R.	Air Handpiece Lube Oil, 8 oz.	850-0985	25.00

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A

A. Dremel Power Grinder #100

A 35,000rpm fixed-speed grinder. Includes seven-piece accessory set and collet wrench. Great for a variety of grinding, sharpening, cutting, cleaning and polishing applications. Features double-insulated, shatter-resistant housing with permanently lubricated ball bearings for smooth, dependable operation. Supplied with 1/8" collet (optional 1/32", 1/16" and 3/32" collets available). Collets also fit Dremel #270 and #380. Electrical: 120V, 1.2A, 50/60Hz. Measures 7 1/4" long with 6' power cord. Weight: 18 oz. UL and ETL listed. Two-year manufacturers' warranty.

	Description	Item#	Each
A.	Dremel Grinder #100 with accessories, 120V	**850-8016**	**$56.20**
	Replacement Type 3 Brushes*	850-8035	3.20

**For models manufactured in 1989 and after.*

B

B. Dremel #3000

The Dremel 3000 is a variable 5,000 to 32,000 rpm rotary grinder the result of upgrading our most popular model using user-requested features to improve the tool's design and ergonomics. Features the EZ Twist™ nose cap with an integrated wrench that allows the nose cap to be used as a wrench to tighten accessories. The ability to use all existing Dremel accessories and most attachments lets the 3000 complete a wide range of applications including cutting, grinding, sanding, carving and polishing a variety of materials. Includes storage case, sanding guide attachment and cutting attachment as well as 28 genuine Dremel accessories. Supplied with 1/8" collet. Electrical: 120V, 1.2A, 50/60Hz. Measures 7 1/2" long with a 6' power cord. Weight 20 oz. Four-year manufacturer's warranty.

	Description	Item#	Each
B.	Dremel #3000 with accessories, 120V	**850-8027**	**$120.00**
	Replacement Brushes	850-8032	$5.20

C

C. Collets For Dremel Grinders – #100 and #3000

These collets fit the new style grinders as well as the Dremel #270 and 380 Grinders.

Size	Item#	Each
1/32"	**850-4155**	**$2.30**
1/16"	**850-4150**	**2.30**
3/32"	**850-4145**	**2.30**
1/8"	**850-4140**	**2.30**

D

D. Dremel® Electric Engraver

Economical, adjustable engraver for personalizing or marking valuable articles. Create unique designs on metal, wood, plastic, ceramic, glass and leather. Features handy hanger for convenient storage, calibrated stroke adjustment dial, comfortable pencil-type grip and easily replaceable carbide point. Measures 6" overall length. Cord measures 6' long. 115V, 0.2A, 60Hz. UL listed.

	Description	Item#	Each
D.	Engraver, 115V	**821-6010**	**$31.95**
	Optional Diamond Point	**821-6020**	**16.25**
	Replacement Carbide Point	821-6015	5.30

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A. Matt™ Gold Collector Box

Traps gold and other precious metals for easy retrieval. Has side openings that let you keep your hands and arms in a natural, comfortable working position for reduced fatigue. Protects eyes, skin and clothing from flying dust, particles and brush wires. Keeps your work area clean, reducing time-consuming cleanup and increasing productivity while maintaining a healthier work environment. Features high-impact extruded plastic housing and easy-to-remove, nonglare, clear plastic shield. Attaches to bench with integral C-clamp when needed. Stores easily when not in use. Lightweight, sturdy and completely portable. Does not eliminate the need for safety glasses. Measures 7"W x 7½"D x 8¾"H.

Description	Item#	Each
Matt Gold Collector Box	**265-2343**	**$74.00**

B. Klear-Vue Safety Shield

Sturdy, crystal-clear, plastic shield almost ⅜" thick. Protects you from flying debris while you work at the bench. Has cutouts for your wrists that allow you to hold your hands and tools at a normal working angle. More comfortable and convenient than a grinding box—use when gold containment is not a factor. Provides an extra barrier that protects face, neck and clothing from dust and dirt kicked up by abrasive wheels, polishing compounds and more. Does not eliminate the need for safety glasses. Measures 7"W x 6⅛"D x 9⅞"H.

Description	Item#	Each
Klear-Vue Safety Shield	**857-1000**	**$82.00**

C. Face Shield – Complete protection with excellent optics.

This lightweight plastic shield is a must for full face and neck protection against flying chips while grinding, drilling or polishing. Can be worn over dust masks, respirators and glasses with no obstruction of view. Features pivoting visor for easy raising and lowering, molded visor edge for reinforcement, cushioned vinyl comfort band and pin-and-hole adjustable headbands. Visor measures 8"L x 12"W x .040" thick. Does not eliminate need for safety glasses.

	Description	Item#	Each
C.	Face Shield	**270-0210**	**$21.00**
	Replacement Visor	270-0212	4.65
	Replacement Vinyl Sweatband	270-0214	1.48

D. Flex Shaft Accessory Set

Includes 90 of our most popular polishing wheels, brushes and buffs, texturing wheels, cut-off discs and felt bobs and brushes, all with 3/32" shanks for your flex shaft. Ideal for grinding, sanding and buffing the insides and outsides of rings and other pieces of jewelry. Use polishing wheels, brushes and buffs for fine polishing, texturing wheels for brushed or satin finishing, cut-off discs for fast sizing of rings and felt bobs and brushes for accessing prongs and other tight areas. Packaged in a convenient 24-compartment plastic storage case.

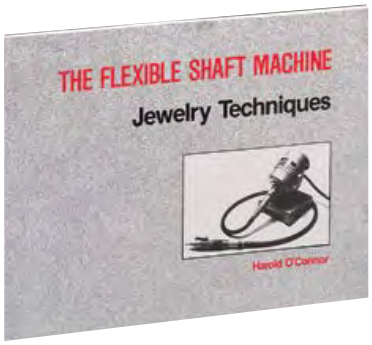
Description	Item#	Each
Flex Shaft Accessory Set	**850-0510**	**$64.95**

E. The Flexible Shaft Machine: Jewelry Techniques

By Harold O'Connor

The flexible shaft machine is probably used more often than any other by the practicing craftsman. This book provides information in chart form on the various burs and abrasives available for use with flex shafts. Also covers many other flex shaft accessories. Contains line drawings and instructional black-and-white photos. Softcover, 47 pages.

Description	Item#	Each
The Flexible Shaft Machine - Book	**811-0265**	**$16.00**



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A-I Screw Mandrels

Use in handpieces and hand grinders for holding felt wheels, pumice, Cratex and other wheels up to 1/4" thick. Threads are right-hand. Style 321 1/2" is made of stainless steel.

	Style	Shank	For Hole	Item#	EACH Prices (3pc) 3-9	12+
A.	321	3/32"	1/16"	840-3170	$1.20	$1.00
B.	321 1/2	3/32"	1/16"	840-3160	2.35	1.96
C.	304	3/32"	1/16"	840-3175	2.45	2.04
D.	2	3/32"	1/8"	840-3060	2.10	1.75
E.	311	1/8"	1/16"	840-3150	1.40	1.17
F.	20	1/8"	1/8"	840-3100	2.15	1.79
G.	22	1/8"	1/8"	840-3110	3.15	2.62
H.	24	1/8"	1/4"	840-3112	2.30	1.92

	Style	Shank	For Hole	Item#	EACH Prices 1-11	12+
I.	25	1/4"	1/4"	840-3115	$4.50	$3.75

Shown actual size

J-O Tapered Threaded Mandrels

For use with felt buffs, wheels, cylinders, points and more. Threads are right-hand.

	Style	Shank	For Hole	Length of Taper	Item#	EACH Prices (3pc) 3-9	12+
J.	3	3/32"	1/16"	3/16"	840-3070	$1.25	$1.04
K.	13	1/8"	1/16"	3/16"	840-3090	1.25	1.04
L.	0	3/32"	1/16"	3/8"	840-3040	1.25	1.04
M.	30	1/8"	1/16"	3/8"	840-3120	1.05	0.87

	Style	Shank	For Hole	Length of Taper	Item#	EACH Prices 1-11	12+
N.	33	1/8"	1/4"	3/4"	840-3130	$3.85	$3.21
O.	43	1/4"	3/8"	1"	840-3140	6.80	5.67

P, Q Threaded Mandrels with Nut

For use with rubberized points, cones, and cylinders such as Cratex. Threads are right-hand.

	Style	Shank	For Hole	Length of Taper	Item#	EACH Prices (3pc) 3-9	12+
P.	1	3/32"	3/32"	1/2"	840-3050	$1.60	$1.33
Q.	4	1/8"	3/32"	1/2"	840-3080	1.20	1.00

Shown actual size

R-V Reducing Collets

Instantly convert your collet to the size you need. Simply slip the appropriate reducing collet into your collet to use 3/32" or 1/16" shank tools. Do not use at high speeds, and make sure shank is inserted deeply. Stainless steel.

	Description	Item#	Each
R.	1/8"–3/32" Reducing Collet	816-1501	$14.90
S.	1/8"–1/16" Reducing Collet	816-1502	14.90
T.	3mm–3/32" Reducing Collet	816-1504	14.90
U.	3mm–1/16" Reducing Collet	816-1505	14.90
V.	3/32"–1/16" Reducing Collet	816-1503	14.90

W, X Adapter Chucks – 3/32" Shank

Allow you to use tools with small shanks in standard flex shaft handpieces. Threads are right-hand.

	Description	Collet Capacity	Item#	Each
W.	Medium Chuck	2.62mm	840-3220	$15.50
X.	Small Chuck	1.00mm	840-3210	13.35

(3pc) *Three-piece minimum; Please order in multiples of three.*

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A-C Cratex® Small Wheel Mandrels

Fit Cratex small wheels. Max. operating speed with ½" overhang (exposed mandrel length) or less: 25,000rpm. With each additional ¼" of overhang, max. operating speed decreases by at least 20%. Use light working pressure.

	Style	Shank	For Hole	Item#	EACH Prices 1-11	12+
A.	#2	3/32"	1/16"	**840-3183**	**$4.62**	**$3.85**
B.	#3	1/8"	1/16"	**840-3186**	**5.79**	**4.82**
C.	#5	1/8"	1/8"	**840-3187**	**6.70**	**5.58**

A B C

D E F

Shown actual size

D-F Cratex® Cylinder and Point Mandrels

Fit Cratex cylinders and points. Mandrels #1 and #4 have a number 3-48 thread and hex nut flange. Mandrel #6 has a number 5-40 thread and hex nut flange.

	Style	Shank	For Hole	Item#	EACH Prices 1-11	12+
D.	#1	3/32"	3/32"	**840-3182**	**$3.24**	**$2.70**
E.	#4	1/8"	3/32"	**840-3185**	**4.38**	**3.65**
F.	#6	1/8"	1/8"	**840-3085**	**5.04**	**4.20**

G. Cratex® Cone Mandrel – ¼" Shank

Fits Cratex cones. Max. operating speed with ½" overhang (exposed mandrel length) or less: 20,000rpm. With each additional ¼" of overhang, max. operating speed decreases by at least 20%. Use light working pressure.

Style	Shank	For Hole	Item#	EACH Prices 1-11	12+
1341	¼"	¼"	**840-3180**	**$7.54**	**$6.28**

G

H. Cratex® Large Wheel Mandrel – ¼" Shank

Fits Cratex wheels up to 3" dia. x ½" thick or less. Max. operating speeds with ½" overhang or less: 15,000rpm for 1½" wheels; 8,300rpm for 2" wheels; 7,000rpm for 3" wheels (based on 5,500 surface feet per minute). Best results are usually obtained at 30% to 80% of max. operating speed. Use light working pressure.

Style	Shank	For Hole	Item#	EACH Prices 1-11	12+
1342	¼"	¼"	**840-3184**	**$11.78**	**$9.82**

H

I-K Split Mandrels – 3/32" Shank

For holding strips of abrasive paper. Have 3/32" shanks.

	Description	Item#	EACH Prices 1-11	12+
I.	Straight Head, 11/64"	**840-3405**	**$2.45**	**$2.04**
J.	Straight Head, 9/64"	**840-3406**	**2.45**	**2.04**
K.	Tapered Head, 3/32"–3/16"	**840-3407**	**2.45**	**2.04**

I J K

Shown actual size

L. Snap-On Mandrel – 3/32" Shank

Features one-piece construction. Made of high-quality steel. Has 3/32" shank. Fits Snap-On Discs (see p. 76).

Description	Item#	EACH Prices 1-11	12+
Snap-On Mandrel	**840-3200**	**$1.85**	**$1.54**

L

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ULTRAMAX® Ultrasonic Polishing Systems

Reduce finishing time by more than 50%!

For more than three decades, Gesswein has brought the benefits of ultrasonic polishing to mold and diemakers. ULTRAMAX units polish slots, ribs and intricate details faster than you could ever do by hand. Feature fast reciprocation and short stroke for making quick work of the most time consuming tasks. Polish everything from milled to rough EDM surfaces to a mirror finish using all grades of finishing stones, diamond tools, ceramic stones and lapping tools with diamond compound (see pp. 104-105). **Choose from four ULTRAMAX units for the right one for your job.**

Our Df and SF units are workhorses; built for power and demanding usage. Our MF unit is an economical, versatile unit capable of ultrasonic, mechanical and brushless operations. The UM-1200 Ultrasonic Polisher is the logical choice for intermittent usage at lower power.

A

Tool Set included with purchase of an ULTRAMAX DF and SF.

A. ULTRAMAX® DF (Dual-Function) Heavy Duty Polisher

Our most powerful ultrasonic, the DF is the #1 choice for the professional mold polisher. With 45W of max output power, it can handle the most demanding work load and continual use. This dual-function unit gives the versatility of both ultrasonic and mechanical polishing. Supplied with the lightweight, vibration-free UF-9700 ultrasonic handpiece, the DF can also power our full line of Power Hand 3 mechanical handpieces (PH3 adaptor 510-3304 required).

Includes controller, UF-9700 handpiece with 6mm screw thread and the ULTRAMAX tools kit, which consists of 6/4mm tool adaptor #508-3342 (to hold M4 ultrasonic tools on p. 466), handpiece cradle rest and tool box with a 31-piece tool set of four diamond files, three diamond stones, two resin-bonded diamond stones, six ceramic stones, two lapping tools, four flat clamp tool holders, round clamp tool holder, standard handpiece protector sleeve, large beveled handpiece protector sleeve, wrenches, set of earplugs and extra fuse.

Specifications:

Vibration Frequency	20–30kHz
Stroke Length	4–40 microns
Max. Output Power	45W
Electrical	115V or 230V, 1 Ph, 50/60Hz
Controller Measures	6⅜"W x 11"D x 8¼"H
Handpiece Measures	5"L x 1³⁄₃₂" dia.

Description	Electrical	Item#	Each
ULTRAMAX DF	115V	**500-0210**	**$5,395.00**
ULTRAMAX DF	230V	**500-0211**	**5,395.00**
Replacement UF-9700 Handpiece		500-0205	1,695.00

B

B. ULTRAMAX® SF (Single-Function) Heavy Duty Polisher

If you don't need a mechanical handpiece function on your ultrasonic polisher, this single-function unit is for you. Provides the same max output power (45W) as the ULTRAMAX DF and incorporates the same ultrasonic polishing capabilities.

Includes controller, UF-9700 handpiece with 6mm screw thread and the ULTRAMAX tools kit which consists of 6/4mm tool adaptor #508-3342 (to hold M4 ultrasonic tools on p. 466), handpiece cradle rest and tool box with a 31-piece tool set.

Specifications:

Vibration Frequency	20–30kHz
Stroke Length	4–40 microns
Max. Output Power	45W
Electrical	115V or 230V, 1 Ph, 50/60Hz
Controller Measures	7"W x 8¼"D x 6"H
Handpiece Measures	5"L x 1³⁄₃₂" dia.

Description	Electrical	Item#	Each
ULTRAMAX SF	115V	**500-0200**	**$4,999.00**
ULTRAMAX SF	230V	**500-0201**	**4,999.00**
Replacement UF-9700 Handpiece		500-0205	1,695.00

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A. ULTRAMAX® MF (Multi-Function) Polisher

The Multi-Function ULTRAMAX MF is our most versatile polishing system. It utilizes a high-efficiency microprocessor to deliver power to ultrasonic, brushless DC, and brush-type DC handpieces. Includes an Ultrasonic Handpiece with 36W of continuously variable power for precision reciprocating action.

The DC output provides exceptional power to any of the Gesswein rotary, reciprocating, side-to-side, or belt sander handpieces. The BLDC1 output provides high speed and high torque power to the optional Gesswein BH-60 brushless type rotary handpiece. The ULTRAMAX MF has a digital readout for power level reference on the DC outputs, and also a multi-color load indicator.

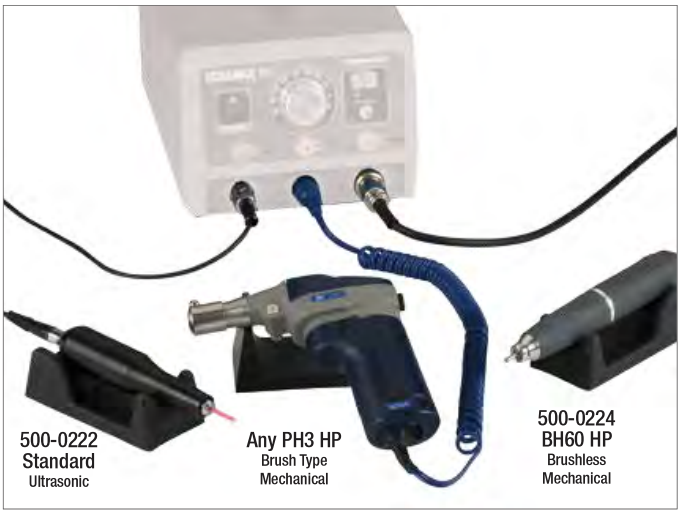
ULTRAMAX MF includes controller, Ultrasonic Handpiece (with 6mm thread), tool box, handpiece rest, tool changing wrenches, 1mm and 3mm flat clamp tool holders, 3mm round tool holder and on/off foot switch.

A

Specifications:

Vibration Frequency	18-26kHz
Stroke Length	4–40 microns
Max. Output Power	36W
Output DC Rotary Tool	5-32VDC, Max. 180W
Output DC Brushless Tool	1,000-50,000rpm, Max. 250W
Electrical	90-240VAC 50/60Hz
Fuse	3A 20mm time-lag
Dimensions	6.75"W x 9.5"D x 5.5"H
Net Weight	5.5 lbs.

	Description	Item#	Each
A.	ULTRAMAX MF	**500-0220**	**$2,495.00**
	Replacement Ultrasonic Handpiece	500-0222	510.00
	BH60 50,000rpm Brushless Rotary Handpiece	**500-0224**	**495.00**
	Variable Speed Foot Rheostat for Mechanical Handpieces	**500-0221**	**60.00**



B. ULTRAMAX® UM-1200 Ultrasonic Polisher

The most affordable ultrasonic polisher for polishing with diamond tools and ceramic stones. The high quality UM-1200 produces 25,000 cycles per second of longitudinal vibration in a small, comfortable handpiece with an invisible minute stroke of 10 to 35 microns from low to high output levels.

Include controller, UM-1200 handpiece with 8mm screw thread standard accessory set (two sintered and six plated diamond tools and two ceramic stones), one flat clamp tool holder, two round clamp tool holders, on/off foot switch, handpiece cradle rest, bench jig, wrench and hex key.

B

Specifications:

Vibration Frequency	18–25kHz
Stroke Length	10–35 microns
Max. Output Power	36W
Electrical	90–240V, 50/60Hz
Controller Measures	7½"W x 5½"D x 3½"H
Handpiece Measures	5"L x 1 3/16" dia.

Description	Electrical	Item#	Each
ULTRAMAX UM-1200	90–240V	**500-1200**	**$1,495.00**
Replacement Handpiece	–	500-0101	380.00

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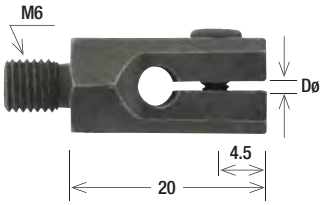
Accessories for ULTRAMAX® DF and SF units

Create your own polishing tools by inserting stones and lapping tools into the appropriate steel clamp. Use the M6 (6mm thread) clamp tool holders in the UF-9700 ultrasonic handpiece supplied with ULTRAMAX DF and SF. For optimum machine performance, choose a medium clamp tool holder for tools up to 6.35mm in width and a large clamp tool holder for tools up to 15mm in width. Replacement screws are available from stock.

All drawing measurements are in millimeters

A



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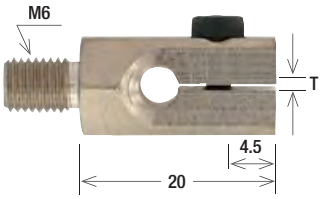

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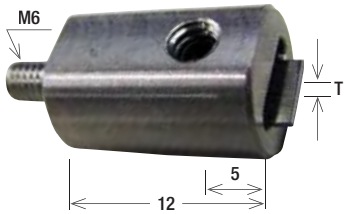

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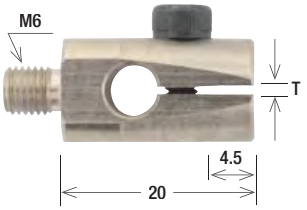

E

F

A. 6mm Thread Round Clamp Tool Holder

For round tools

	For Dø (Diameter)	Item#	Each
A.	2.0mm round tool	**508-3508**	**$36.50**
	2.35mm (3/32") round tool	**508-3509**	**36.50**
	3.0mm round tool	**508-3512***	**36.50**
	3.3mm (1/8") round tool	**508-3516**	**36.50**
	4.0mm round tool	**508-3520**	**36.50**

**Supplied with ULTRAMAX DF/SF*

B. 6mm Thread Medium Clamp Tool Holder

For flat tools up to 6.35mm (1/4") wide

	For T (Thickness)	Item#	Each
B.	0.5mm flat tool	**508-3495**	**$36.50**
	0.8mm flat tool	**508-3500***	**36.50**
	1.0mm flat tool	**508-3502***	**36.50**
	1.5mm flat tool	**508-3504**	**36.50**
	2.0mm flat tool	**508-3506**	**36.50**
	3.0mm flat tool	**508-3510***	**36.50**
	3.3mm (1/8") flat tool	**508-3514***	**36.50**

** Supplied with ULTRAMAX DF/SF*

C. 6mm Thread Adjustable Clamp Tool Holder

For flat tools 0.1mm to 8.0mm wide

For T (Thickness)	Item#	Each
0.1mm to 1.5mm thick	**508-3522**	**$69.50**

D. 6mm Thread Large Clamp Tool Holder

For flat tools 6.35mm to 15mm wide

	For T (Thickness)	Item#	Each
D.	1.0mm flat tool	**508-3503**	**$36.50**
	1.5mm flat tool	**508-3505**	**36.50**
	2.0mm flat tool	**508-3507**	**36.50**
	3.0mm flat tool	**508-3511**	**36.50**
	3.3mm (1/8") flat tool	**508-3515**	**36.50**
	4.0mm flat tool	**508-3518**	**36.50**

E, F ULTRAMAX® DF/SF Accessories and Replacements

	Description	Item#	Each
E.	UF-9700 Handpiece only (6mm thread)	500-0205*	$1,695.00
	6/4mm Tool Adapter (to hold M4 ultrasonic tools)	508-3342*	13.25
	Handpiece Cradle Rest	510-1130*	14.60
	Standard Handpiece Protector Sleeve	500-0208*	12.75
F.	Variable-Speed Foot Rheostat	**500-0206**	**$149.00**

** Supplied with ULTRAMAX DF/SF*

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Accessories for ULTRAMAX® MF units

Create your own polishing tools by inserting stones and lapping tools into the appropriate steel clamp. Use 6mm thread for the MF handpiece.

A. 6mm Round Tool Holders

For Dø (Diameter)	Item#	Each
2.0mm Round	**508-3132**	**$32.00**
A. 3.0mm Round	**508-3133***	**32.00**
1/8" Round	**508-3134**	**32.00**

**Supplied with ULTRAMAX MF*

B. 6mm Flat Clamp Tool Holders

For T (Thickness)	Item#	Each
0.5mm Flat	**508-3120**	**$32.00**
B. 1.0mm Flat	**508-3122***	**32.00**
2.0mm Flat	**508-3124**	**32.00**
3.0mm Flat	**508-3126***	**32.00**
1/8" Flat	**508-3128**	**32.00**

**Supplied with ULTRAMAX MF*

C. ULTRAMAX® MF Accessories and Replacements

Description	Item#	Each
C. MF Ultrasonic Handpiece	**500-0222***	**$510.00**
Variable Speed Foot Pedal	**500-0221**	**60.00**
50,000 Brushless Rotary Handpiece	**500-0224**	**495.00**
6mm to 4mm adapter	508-3114	32.00
Cradle Rest	510-1130*	14.60

**Supplied with ULTRAMAX MF*

Accessories for ULTRAMAX® UM-1200 units

Create your own polishing tools by inserting stones and lapping tools into the appropriate steel clamp. Use 8mm thread for the UM-1200 handpiece

***Important note:** Always use bench jig when changing tools or holders to avoid damaging handpiece transducer wires.*.

D. 8mm Thread Round Tool Holders

For Dø (Diameter)	Item#	Each
1.0mm round tool	**500-0134**	**$32.00**
2.0mm round tool	**500-0135**	**32.00**
2.35mm (3/32") round tool	**500-0136**	**32.00**
D. 3.0mm round tool	**500-0109***	**28.00**
1/8" round tool	**500-0137**	**32.00**

E. 8mm Thread Flat Clamp Tool Holders

For T (Thickness)	Item#	Each
0.5mm flat tool	**500-0111**	**$28.00**
0.8mm flat tool	**500-0131**	**28.00**
E. 1.0mm flat tool	**500-0108***	**28.00**
2.0mm flat tool	**500-0132**	**28.00**
3.0mm flat tool	**500-0110**	**28.00**
1/8" flat tool	**500-0133**	**28.00**

***Supplied with ULTRAMAX UM-1200**

F. ULTRAMAX® UM-1200 Accessories and Replacements

Description	Item#	Each
F. 8/4mm Tool Adapter (to hold M4 ultrasonic tools)	**500-0129**	**$35.00**
Replacement UM-1200 Handpiece, 8mm thread	500-0101*	380.00
Replacement Standard Accessory Set	500-0140*	126.00
Replacement On/Off Foot Switch	500-0107*	45.00
Replacement Handpiece Cradle Rest	510-1130*	14.60

***Supplied with ULTRAMAX UM-1200**

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ULTRAMAX® Diamond Tools M4 (4mm thread)

All **ULTRAMAX® Diamond Tools** are made to match the resonant frequency of Gesswein ULTRAMAX units. For best results, use only **ULTRAMAX® Diamond Tools**. The manufacturer will not accept any liability for another brand of tools. All measurements in millimeters. All lengths given are cutting lengths. Please check drawings for overall tool dimensions.

- Mount in 6/4mm tool adapter #508-3342 for use with DF, SF
- Use #508-3114 6/4mm tool adapter for MF-ULTRAMAX
- Mount in 8/4mm tool adapter (see #500-0129 p. 465) for use with UM-1200

Diamond Tool Color Coding

Color	Grit
Red	200
Black	320
Blue	500
White	600

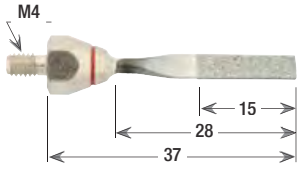
Mounted Diamond Files – For ULTRAMAX® units

Use these fast-cutting diamond files for intermediate finishing. Excellent for finishing slot sidewalls and flat or curved surfaces. Diamond particles, precision-graded to assure consistency, are electrodeposited on threaded steel shanks.

Flat, 5 x 1 x 40

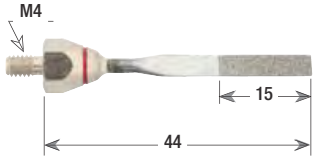
Grit	Item#	Each
200	**508-3206***	**$92.80**
320	**508-3208***	**92.80**
600	**508-3210**	**92.80**

**Supplied with ULTRAMAX DF/SF*



Flat, 4 x 1 x 15

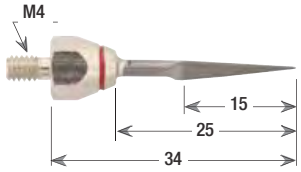
Grit	Item#	Each
200	**508-3200**	**$66.00**
320	**508-3202**	**66.00**
600	**508-3204**	**66.00**



Chisel, 4 x 0.8-0.5 x 15

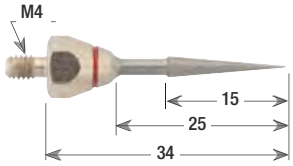
Grit	Item#	Each
200	**508-3362***	**$67.25**
320	**508-3364***	**67.25**
600	**508-3366**	**67.25**

**Supplied with ULTRAMAX DF/SF*



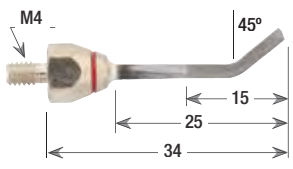
Three-Square, 3 x 15

Grit	Item#	Each
200	**508-3212**	**$76.00**
320	**508-3214**	**76.00**
600	**508-3213**	**76.00**



Round Taper, 3 x 15

Grit	Item#	Each
200	**508-3215**	**$59.95**
320	**508-3217**	**59.95**
600	**508-3219**	**59.95**

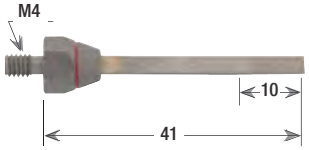


45° Arm, 1 x 4 x 15

Grit	Item#	Each
200	**508-3218**	**$61.75**
320	**508-3220**	**61.75**
600	**508-3222**	**61.75**

Mounted Diamond Stones – For ULTRAMAX® units

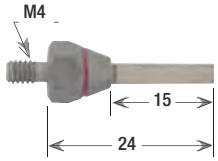
Precision-graded diamond particles throughout, not just on the surface, give these tools long life. Can be shaped with a diamond wheel or file for easy polishing of tapered or deep, narrow slots. Great for intermediate and fine finishing.



Flat, 3 x 1 x 10

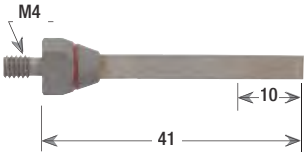
Grit	Item#	Each
200	**508-3246***	**$97.25**
320	**508-3248**	**97.25**

**Supplied with ULTRAMAX DF/SF.*



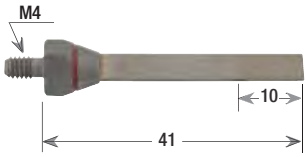
Flat, 3 x 1 x 15

Grit	Item#	Each
200	**508-3264**	**$88.85**
320	**508-3266**	**88.85**
500	**508-3268**	**88.85**



Flat, 4 x 1 x 10

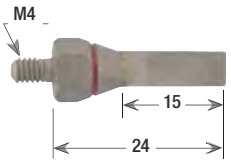
Grit	Item#	Each
500	**508-3256**	**$102.25**



Flat, 5 x 1 x 10

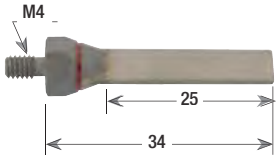
Grit	Item#	Each
200	**508-3258***	**$106.75**
320	**508-3260**	**106.75**
500	**508-3262**	**106.75**

**Supplied with ULTRAMAX DF/SF*



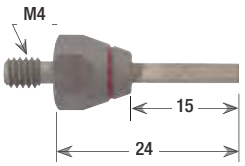
Flat, 5 x 1 x 15

Grit	Item#	Each
200	**508-3272**	**$73.75**
320	**508-3274**	**73.75**
500	**508-3270**	**73.75**



Flat, 6 x 1.5 x 25

Grit	Item#	Each
200	**508-3276**	**$107.75**
320	**508-3278**	**107.75**



Square, 2 x 2 x 15

Grit	Item#	Each
500	**508-3284**	**$60.00**

A-M Gesswein® Diamond Poli Files – 3mm Shank

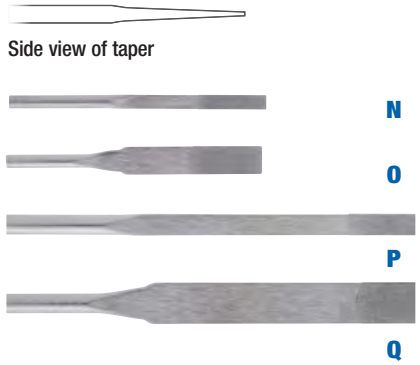
Parallel diamond machine files for use in Ultramax Round Tool Holders. All have 3mm shanks. Measure approx. 2" long. Plated ends measure 5/8" long.

Style	Shape	W x Thick	Grit	Item#	Each
A. Flat		2 x 1mm	150	**240-1120***	**$12.50**
B.		3 x 1mm	150	**240-1130**	**12.50**
C.		4 x 1mm	150	**240-1140**	**12.50**
D.		5 x 2mm	150	**240-1150**	**12.50**
E. Three-Square		2mm	150	**240-1520***	**12.50**
F.		3.5mm	150	**240-1535**	**12.50**
G.		4.5mm	150	**240-1545**	**12.50**
H. Crossing		2 x 1mm	150	**240-1410***	**12.50**
I. Round		1mm	150	**240-1310**	**12.50**
J.		2mm	150	**240-1320***	**12.50**
K.		3mm	150	**240-1330**	**12.50**
L. Flat		4 x 1mm	150	**240-1230***	**12.50**
M. Knife		4 x 1mm	150	**240-1610***	**12.50**
*6-Piece Set (one of each asterisked item)				**240-1706**	**71.00**
12-Piece Set (one of each except #240-1150)				**240-1712**	**142.00**

N-Q Gesswein® Tapered Diamond Poli Files – 3mm Shank

Tapered diamond machine files for use in Ultramax Round Tool Holders. All have 3mm shanks. Plated ends measure 15mm (19/32") long with 1.4–0.3mm taper.

Style	Size (mm)	200 grit Item#	400 grit Item#	600 grit Item#	Each
N. Flat	3 x 56	**241-0814**	**241-0815**	**241-0816**	**$12.50**
O.	6 x 56	**241-0817**	**241-0818**	**241-0819**	**13.75**
P.	3 x 72	**241-0820**	**241-0821**	**241-0822**	**12.50**
Q.	6 x 72	**241-0823**	**241-0824**	**241-0825**	**13.75**
				Item#	Each
12-Piece Set (one of each)				**241-0813**	**$149.75**



R. ULTRAMAX® UM-1200 Sintered Diamond Machine Files – 3mm Shank

Feature solid diamond portion that measures 20mm (approx. 3/4") long x 1.5mm thick. Shape to reach tight areas. Have 3mm shanks. Use with proper tool holder (500-0109 see p. 465).

Size (W x L)	200 grit Item#	400 grit Item#	600 grit Item#	Each
6 x 72mm	**500-0126***	**500-0127***	**500-0128**	**$49.95**

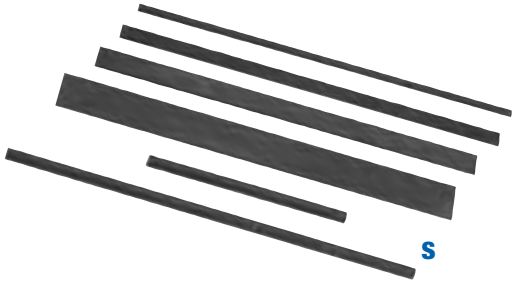
Supplied with ULTRAMAX UM-1200.

S. SUPER Ceramic Diamond Stones

SUPER Ceramic Diamond (SCD) Stones combine ceramic fibers with multiple layers of evenly distributed diamond particles to ensure continuous cutting action. SCD Stones will cut and polish flat to a surface, allowing fast and accurate polishing in open areas. SCD Stones are perfect for polishing ribs, hard-to-reach slots and sidewalls, and milled or EDM flat surfaces. Their strong, durable ceramic fiber construction makes them ideal for use in ultrasonic polishers and mechanical profilers or by hand. Available in flat and round shapes in four color-coded grits.

Style	Size (mm)	Black 200 Grit Item#	Gray 400 Grit Item#	Green 600 Grit Item#	Aqua 800 Grit Item#	EACH Prices* 1-4	5+
Flat	**1 x 2 x 100**	**351-0797**	**351-0798**	**351-0799**	**351-0815**	**$16.50**	**$14.85**
	1 x 4 x 100	**351-0800**	**351-0801**	**351-0802**	**351-0816**	**30.00**	**27.00**
	1 x 6 x 100	**351-0803**	**351-0804**	**351-0805**	**351-0817**	**45.00**	**40.50**
	1 x 10 x 100	**351-0806**	**351-0807**	**351-0808**	**351-0818**	**59.00**	**53.10**
Round	**3 x 50**	**351-0809**	**351-0810**	**351-0811**	**351-0819**	**40.00**	**36.00**
	3 x 100	**351-0812**	**351-0813**	**351-0814**	**351-0820**	**88.00**	**79.20**

Quantity discount for orders of one item number only; not assorted.



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NEW SuperStone

Ceramic Stones

Strong yet incredibly flexible!

New Super Stone (NSS) offers an improved cutting ability, increased heat resistance, and longer life. Made of long ceramic fibers that will not break even under the most strenuous conditions, the NSS can be used in ultrasonic polishers, reciprocating profilers, or by hand (see Ceramic Stone Holders on p. 26).

These strong yet flexible stones are ideal for polishing small intricate areas on all types of metals producing consistent and uniform surface finishes. NSS is non-loading and can be shaped with the Super Dresser #351-0300 (see p. 26). Available in 8 easy to identify color coded grits from 120 to 1200. Made in Japan.

For our selection of Cristone Ceramic Stones see p. 27.

FLAT Stones

Dimensions (mm)	Emerald 120 Grit Item#	Gold 180 Grit Item#	Lt. Brown 300 Grit Item#	Orange 400 Grit Item#	Gray 600 Grit Item#	Blue 800 Grit Item#	White 1000 Grit Item#	Red 1200 Grit Item#	EACH Prices* 1-4	5+
0.5 x 1 x 100	355-0101	355-0201	355-0401	355-0501	355-0601	355-0701	355-0801	355-0901	**$9.95**	**$8.96**
0.5 x 2 x 100	355-0102	355-0202	355-0402	355-0502	355-0602	355-0702	355-0802	355-0902	**13.50**	**12.15**
0.5 x 4 x 100	355-0103	355-0203	355-0403	355-0503	355-0603	355-0703	355-0803	355-0903	**20.90**	**18.81**
0.5 x 6 x 100	355-0104	355-0204	355-0404	355-0504	355-0604	355-0704	355-0804	355-0904	**31.45**	**28.31**
0.5 x 10 x 100	355-0105	355-0205	355-0405	355-0505	355-0605	355-0705	355-0805	355-0905	**41.25**	**37.13**
0.8 x 4 x 100	355-0108	355-0208	355-0408	355-0508	355-0608	355-0708	355-0808	355-0908	**20.90**	**18.81**
0.8 x 6 x 100	355-0109	355-0209	355-0409	355-0509	355-0609	355-0709	355-0809	355-0909	**31.45**	**28.31**
0.8 x 10 x 100	355-0110	355-0210	355-0410	355-0510	355-0610	355-0710	355-0810	355-0910	**41.25**	**37.13**
1 x 1 x 100	355-0111	355-0211	355-0411	355-0511	355-0611	355-0711	355-0811	355-0911	**9.95**	**8.96**
1 x 2 x 100	355-0112	355-0212	355-0412	355-0512	355-0612	355-0712	355-0812	355-0912	**12.00**	**10.80**
1 x 4 x 100	355-0113[a]	355-0213[a]	355-0413[a]	355-0513	355-0613	355-0713[a]	355-0813	355-0913[a]	**20.90**	**18.81**
1 x 6 x 100	355-0114	355-0214	355-0414[a]	355-0514[a]	355-0614[a]	355-0714[a]	355-0814[a]	355-0914	**31.45**	**28.31**
1 x 10 x 100	355-0115	355-0215	355-0415	355-0515	355-0615	355-0715	355-0815	355-0915	**41.25**	**37.13**
1.5 x 4 x 100	355-0118	355-0218	355-0418	355-0518	355-0618	355-0718	355-0818	355-0918	**31.25**	**28.13**
1.5 x 6 x 100	355-0119	355-0219	355-0419	355-0519	355-0619	355-0719	355-0819	355-0919	**47.30**	**42.57**
1.5 x 10 x 100	355-0120	355-0220	355-0420	355-0520	355-0620	355-0720	355-0820	355-0920	**62.45**	**56.21**
2 x 4 x 100	355-0123	355-0223	355-0423	355-0523	355-0623	355-0723	355-0823	355-0923	**41.25**	**37.13**
2 x 6 x 100	355-0124	355-0224	355-0424	355-0524	355-0624	355-0724	355-0824	355-0924	**62.90**	**56.61**
2 x 10 x 100	355-0125	355-0225	355-0425	355-0525	355-0625	355-0725	355-0825	355-0925	**82.50**	**74.25**

** Quantity discount for orders of one item number only; not assorted.*

[a] See Stone & Holder Sets; next page

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NEW SuperStone

- Non-clogging—beautiful polishing results on all metals
- Available in any dimensions in flat/round profiles
- Incredible strength and flexibility
- Color coded—easy to identify
- Available in grits 120 to 1200
- Improved heat resistance
- Great cutting power
- Very long life

ROUND Stones

Dimensions (mm)	Emerald 120 Grit Item#	Gold 180 Grit Item#	Lt. Brown 300 Grit Item#	Orange 400 Grit Item#	Gray 600 Grit Item#	Blue 800 Grit Item#	White 1000 Grit Item#	Red 1200 Grit Item#	EACH Prices* 1-4	5+
2.35 x 50mm ○	355-0131	355-0231	355-0431	355-0531	355-0631	355-0731	355-0831	355-0931	**$18.50**	**$16.65**
2.35 x 100mm ○	355-0132	355-0232	355-0432	355-0532	355-0632	355-0732	355-0832	355-0932	**39.00**	**35.10**
3 x 50mm ○	355-0134	355-0234[b]	355-0434[b]	355-0534	355-0634[b]	355-0734[b]	355-0834	355-0934[b]	**20.45**	**18.41**
3 x 100mm ○	355-0135	355-0235	355-0435	355-0535	355-0635	355-0735	355-0835	355-0935	**39.50**	**35.55**
3.175 x 50mm ○	355-0137	355-0237	355-0437	355-0537	355-0637	355-0737	355-0837	355-0937	**23.50**	**21.15**
3.175 x 100mm ○	355-0138	355-0238	355-0438	355-0538	355-0638	355-0738	355-0838	355-0938	**40.00**	**36.00**

SQUARE Stones

Dimensions (mm)	Emerald 120 Grit Item#	Gold 180 Grit Item#	Lt. Brown 300 Grit Item#	Orange 400 Grit Item#	Gray 600 Grit Item#	Blue 800 Grit Item#	White 1000 Grit Item#	Red 1200 Grit Item#	EACH Prices* 1-4	5+
0.5 x 0.5 x 50mm ▫	355-0141	355-0241[c]	355-0441	355-0541[c]	355-0641	355-0741[c]	355-0841	355-0941[c]	**$7.00**	**$6.30**
0.9 x 0.9 x 50mm ▫	355-0143	355-0243[d]	355-0443	355-0543[d]	355-0643	355-0743[d]	355-0843	355-0943[d]	**7.00**	**6.30**

PRECUT Stones – For Ultrasonic Handpieces

Dimensions (mm)	Emerald 120 Grit Item#	Gold 180 Grit Item#	Lt. Brown 300 Grit Item#	Orange 400 Grit Item#	Gray 600 Grit Item#	Blue 800 Grit Item#	White 1000 Grit Item#	Red 1200 Grit Item#	EACH Prices* 1-4	5+
0.8 x 4 x 40 ▭	355-0160	355-0260	355-0460	355-0560	355-0660	355-0760	355-0860	355-0960	**$9.95**	**$8.96**
0.8 x 6 x 40 ▭	355-0161	355-0261	355-0461	355-0561	355-0661	355-0761	355-0861	355-0961	**16.65**	**14.99**
1 x 4 x 40 ▭	355-0165	355-0265	355-0465	355-0565	355-0665	355-0765	355-0865	355-0965	**9.95**	**8.96**
1 x 6 x 40 ▭	355-0166	355-0266	355-0466	355-0566	355-0666	355-0766	355-0866	355-0966	**16.10**	**14.49**

**Quantity discount for orders of one item number only; not assorted.*

[b–d]See Stone & Holder Sets below

STONE & HOLDER Sets

Set	Contents	Item#	Each
a. Flat set	10 stones + 2 holders: 1 x 4 x 100 (120, 180, 300, 800, 1200 grit) 1 x 6 x 100 (300, 400, 600, 800,1000 grit)	355-1100	$199.00
b. Round set	5 stones + holder: 3 x 50mm (180, 300, 600, 800, 1200 grit)	355-1103	89.00
c. Square set, .5mm	4 stones + holder: 0.5 x 0.5 x 50mm (180, 400, 800, 1200 grit)	355-1105	37.00
d. Square set, .9mm	4 stones + holder: 0.9 x 0.9 x 50mm (180, 400, 800, 1200 grit)	355-1109	37.00

All prices subject to change without notice.

A

A. Finger Guard Safety Tape

Made of surgical-grade gauze coated with natural latex rubber. Sticks only to itself – not to your skin, hair or clothing. Ideal skin protection for grinding and buffing. Length 90 feet.

Description	Item#	Each
Safety Tape, 3/4" Green roll	**816-0203**	**$2.10**
Safety Tape, 3/4" pkg. of 16 rolls	**816-0202**	**32.50**
Safety Tape, 1" Green roll	**816-0199**	**3.05**
Safety Tape, 1" pkg. of 12 rolls	**816-0198**	**34.90**

B

B. 3M® Vetrap™ Bandage Tape

This easy-to-use flexible tape wraps securely around fingers. Stays comfortable and cool, helping maintain your sense of touch. Available in four colors. Sold in 15'L x 2"W rolls.

Description	Item#	EACH Prices 1-4	5-17	18+
Blue Roll	**816-0214**	**$2.31**	**$2.19**	**$1.85**
Green Roll	**816-0215**	**2.31**	**2.19**	**1.85**
Red Roll	**816-0217**	**2.31**	**2.19**	**1.85**
White Roll	**816-0218**	**2.31**	**2.19**	**1.85**

C

C. Leather Finger Cots – USA

Protect fingers during polishing operations. Made of soft leather for a comfortable fit. Available in three sizes: small/medium for ladies' fingers, medium/large for men's fingers and large for men's thumbs and large fingers. Also available with an elastic back for a secure fit on any finger size. Sold in multiples of 10 and money-saving boxes of 1,000.

Description	Dimensions (L x W)	Item# (10pc)	EACH Prices 10-90	100+	Item#	BOX of 1,000
Small/Med. Cots	2 1/4" x 1"	**816-0205**	**$0.79**	**$0.71**	**816-0206**	**$615.00**

(10pc) *10-piece minimum; please order in multiples of 10.*

Description	Dimensions (L x W)	Item#	EACH Prices 1-99	100+	Item#	Box of 1,000
Med./Large Cots	3" x 1 1/2"	**816-0190**	**$2.80**	**$2.52**	**816-0195**	**$2,187.50**
Large Thumb Cots**	2 1/2" x 2"	**816-0186**	**1.69**	**1.52**	**816-0187**	**1,312.50**
Elastic-Back Cots	2 3/4" x 1 3/4"	**816-0188**	**2.78**	**2.50**	**816-0189**	**1,950.00**

***Slightly stiffer leather.*

D E

D-G Leather Finger and Thumb Guards

These thick guards offer greatest protection from compounds, abrasives and heat. Available in suede or grain (smoother surface) leather all with elastic cloth back for a comfortable fit. Thumb guard available in over end style. Finger guards available in open, super (open with more leather covering the side of the finger) and closed end styles.

	Description	Style	Type	Item#	EACH Prices (10pc) 10-90	100+
D.	Finger	Open	Suede	**816-0201**	**$0.88**	**$0.79**
E.	Finger	Super	Suede	**816-0200**	**1.29**	**1.16**
F.	Finger	Closed	Grain	**816-0197**	**1.43**	**1.29**
G.	Thumb	Over End	Grain	**816-0196**	**1.54**	**1.39**

(10pc) *10-piece minimum; please order in multiples of 10.*

F G

H. Rubber Finger Guards

Superior guards for sure grip and extra-long life. Ventilated for comfort. Protect fingers while polishing and handling workpieces. Sold by the dozen.

Description	Style	Item#	DOZEN Prices 1-5	6-11	12+
Small Guards	11	**816-0220**	**$7.95**	**$7.16**	**$6.76**
Medium Guards	12	**816-0225**	**7.95**	**7.16**	**6.76**
Large Guards	13	**816-0230**	**7.95**	**7.16**	**6.76**
X-Large Guards	14	**816-0235**	**7.95**	**7.16**	**6.76**

H

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A, B Latex Finger Cots

Powder-free, antistatic latex finger cots in white or pink for protection from mild chemicals. Available in small, medium and large. Sold by the gross or bulk pack of 1440pcs.

Description	WHITE Item#	GROSS Prices 1-2	3+	PINK Item#	GROSS Prices 1-2	3+
A. Small	816-0250	$4.95	$4.70	816-0255	$5.25	$4.99
Medium	816-0251	4.95	4.70	816-0256	5.25	4.99
Large	816-0252	4.95	4.70	816-0257	5.25	4.99

Description	WHITE Item#	Box of 1440	PINK Item#	BOX of 1440
B. Small	816-0260	$29.95	816-0265	$31.45
Medium	816-0261	29.95	816-0266	31.45
Large	816-0262	29.95	816-0267	31.45

A

B

C. Orange Finger Cots

Premium finger cots feature a roughened surface that provides better gripping and anti-slipping. Durable to provide excellent finger protection. Prevents transfer of fingerprints, sweat and other contaminants to the work piece. The bright orange color makes for easy recognition on your bench. Offered in convenient 10 packs or bulk packs of 100.

Description	Item#	Package of 10 1-2	3+	Item#	PKG. of 100
C. Small	816-0270	$4.50	$4.28	816-0275	$24.50
Medium	816-0271	4.50	4.28	816-0276	24.50
Large	816-0272	4.50	4.28	816-0277	24.50

C

D. Cotton Knit Finger Guards

Provide excellent protection from heat, burns and abrasion during buffing and grinding operations. Made of pure soft cotton yarn with no side seams for a better feel. Small size fits most women, large most men. Sold in multiples of 10 and money-saving boxes of 1,000. Cotton gloves (see p. 573).

Description	Item#	EACH Prices (10pc) 10-90	100+	Item#	BOX of 1,000
Small Guards	816-0207	$0.75	$0.68	816-0208	$610.00
Large Guards	816-0211	0.75	0.68	816-0212	610.00

(10pc) *10-piece minimum; please order in multiples of 10.*

D

See page 573 for Cotton Gloves.

E. MAN-O® Protective Skin Cream

Features unique formulation with solvent, insoluble protectants that guard skin against the toughest solvents, grime and grease, as well as other irritants that can harm and stain. Apply before working to form an invisible shield that lasts for hours. Won't block pores or prevent perspiration. Contains lanolin and glycerin to prevent drying and cracking. Removes easily with soap and water. Silicone-free. Nontoxic. Made in USA.

Description	Item#	Each
12oz.	805-1086	$9.95

E

F. PR-88 Hand Protectant

This glycerine-based compound prevents grease and grime from penetrating your skin. Apply before working to form an invisible shield that lasts for hours. Removes easily with soap and water.

Description	Item#	Each
3.5 oz. Tin	812-0490	$7.95

F

G. HandKind Scrub

Removes a wide range of dirt and soil from the skin including hard to remove polishing compounds and automotive axle grease. HandKind cleans the skin with unmatched completeness. It has been designed to remove the toxic heavy metal ions such as lead and mercury from the skin that accumulate during metal working activities. HandKind uses a unique blend of intense humectant skin conditioners to not only moisturize your skin but to assist in bringing damaged dry skin back to its natural balance. With its crushed natural walnut scrubbers, HandKind Scrub is completely biodegradable and water system safe. HandKind Scrub is truly the most effective hand cleaner available and the only product known to remove toxic metal ions. Its four products in one!

Description	Item#	EACH Prices 1-11	12+
HandKind Scrub with pump, 24 oz.	805-1095	$19.95	$17.96

G

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A

A. MicroFlex® UltraSense™ Powder-Free Nitrile Glove

The alternative to latex!

Powder-free UltraSense is a breakthrough in nitrile technology, providing the fit and feel of latex while eliminating the possibility of natural rubber latex allergic reaction. Provides reliable barrier protection against many hazardous and infectious substances. Highly elastic for easy conformance and reduced fatigue. Textured fingertips offer excellent grip in wet or dry conditions. Ambidextrous. Beaded cuff. Polymer-coated for easy donning. Length: 245mm (9⅝"). Thicknesses: 5.1mil finger, 3.5mil palm. Color: blue. Sold in dispenser box of 100.

Size	Item#	BOX of 100
Small	**805-1072**	**$24.75**
Medium	**805-1071**	**24.75**
Large	**805-1070**	**24.75**

B

B. MicroFlex® NeoPro® EC Glove – Ideal for rhodium plating!

Exceptional comfort in a tough synthetic glove. NeoPro EC offers the barrier protection of a synthetic with the comfort, fit and feel of natural rubber latex. Offers 90% more puncture resistance than natural rubber latex. Resists a broad range of chemicals. Ideal for rhodium plating, electrocleaning and most other plating operations. Textured fingertips provide a secure grip. Extended, beaded cuff guards against splashes and spills. Made of polychloroprene, the generic name for neoprene. Ambidextrous. Powder-free and polymer-coated for easy donning. Length: 300mm (11.8"). Thicknesses: 8.3mil finger, 6.3mil palm, 4.7mil cuff. Color: green. Sold in dispenser box of 50.

Size	Item#	BOX of 50
Small	**805-1052**	**$26.75**
Medium	**805-1051**	**26.75**
Large	**805-1050**	**26.75**

C

C. Latex Gloves

Disposable latex gloves for everyday use. Prevent skin problems that arise from chemical reactions caused by constant exposure to soaps, solvents and other mild chemicals. Powdered to go on and off easily. Available in small, medium and large sizes. Sold in boxes of 100.

Size	Item#	BOX of 100
Small	**805-1043**	**$14.95**
Medium	**805-1041**	**14.95**
Large	**805-1042**	**13.95**

D

D. Heat-Resistant Gloves with Aluminized Back

Gloves are manufactured from 22 oz. basket-weave fiber blended with fiberglass. Aluminized back protects against radiant heat while wool lining protects against contact heat. Specially designed for better cooling, comfort and safety. Gloves have been used in temperatures up to 800°F for brief contact. Wide cuff openings allow gloves to be dropped with the flick of the wrist in case of excess heat buildup. Measure 14" long.

Description	Item#	Each
Heat-Resistant Gloves, pair	**816-1020**	**$53.95**

E F

E, F Heat-Resistant Gloves

For safe, easy handling of hot objects. Gloves are fully lined with black felt and manufactured from 22 oz. basket-weave fiber blended with fiberglass. Ideal for use in temperatures up to 1,000°F for brief contact. Extra-wide cuff openings allow gloves to be dropped with a flick of the wrist in case of molten splash or excess heat buildup.

	Description	Item#	Each
G.	14" Gloves, pair	**816-1015**	**$41.95**
H.	23" Gloves, pair	**816-1016**	**76.50**

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A, B Neoprene Sleeves and Apron

Neoprene sleeves provide lower-arm protection against a wide range of chemicals, oils, acids, caustics and solvents. Feature elastic cuffs on both ends for a secure fit. Measure 18" long. Sold by the pair. Heavy-duty double-coated yellow neoprene apron for broad-spectrum protection from a wide range of chemicals, including acids, caustics and solvents. Features extra-long neck and waist ties. Measures 35"W x 45"L. Weighs 12½ oz. Recyclable.

Description	Item#	Each
A. Neoprene Sleeves, pair	827-1510	$9.20
B. Neoprene Apron	827-1509	29.95

A

B

C. Bib Apron with Pockets

Protects clothing and holds most frequently used tools close at hand. Includes extra-long waist strings for front tying. Made of machine washable heavyweight cotton. Available with or without pockets. Comes in royal blue with our white, screen-printed Gesswein logo. Measures 18½"W x 25"L. Made in USA.

Description	Item#	Each
C. Bib Apron with pockets	827-1201	$19.99
Bib Apron without pockets	827-1200	17.95

C

D. Suede Bib Apron

This durable, comfortable apron protects clothing while you work with power equipment and hand tools. Has no pockets in which debris can be trapped. Made of tanned, split, rust-colored heavyweight suede. Includes adjustable ties with brass grommet reinforcements. One size fits all. Measures 24"W x 36"L.

Description	Item#	Each
Suede Bib Apron	827-1507	$32.00

D

E. Fire-Resistant Apron

Made of fire-resistant fabric ideal for welding applications. Features full-coverage design for protection of neck, chest and lap, small chest pocket, large waist pocket, bottom flap for catching runaway parts, comfortable neck band and extra-long waist strings for front tying. Comes in navy blue. One size fits all. Measures 27"W x 36"L.

Description	Item#	Each
Fire-Resistant Apron	827-1508	$27.80

E

F. Lab Coat

Full-length coat with long sleeves, notched lapel, hemmed cuffs and bottom. Includes two breast pockets, two hip pockets and reinforced side slit for easy access to inside pocket. Made of permanent-press, washable polyester/cotton blend. Comes in white with royal blue embroidered Gesswein logo. Can be burned to reclaim precious metals. Made in USA.

Description	Fits Sizes	Item#	Each
Small Men's Coat	36–38	827-1500	$58.50
F. Medium Men's Coat	40–44	827-1501	58.50

F

G. Klear-Vue Safety Shield

Sturdy, crystal-clear plastic shield almost ⅜" thick. Protects you from flying debris while you work at the bench. Has cutouts for your wrists that allow you to hold your hands and tools at a normal working angle. More comfortable and convenient than a grinding box—use when gold containment is not a factor. Provides an extra barrier that protects face, neck and clothing from dust and dirt kicked up by abrasive wheels, polishing compounds and more. Does not eliminate the need for safety glasses. Measures 7"W x 6⅛"D x 9⅞"H.

Description	Item#	Each
Klear-Vue Safety Shield	857-1000	$82.00

G

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A

A. 3M™ Half-Facepiece Respirator

Protects you from dusts, mists and airborne contaminants. NIOSH rated N95 for protection from respirable silica (in investment, quartz, tripoli and more). Also suitable for rhodium plating. Features a soft, pliable silicone face seal for a secure, gapless fit on most every face shape. Extremely comfortable to wear, especially for extended periods of use. Roomy nose chamber and special 3M Cool Flow valve ensure easy natural breathing while reducing heat and condensation in the facepiece. Complete respirator includes facepiece, two deluxe cartridges, two deluxe prefilters and two retainer rings. NIOSH approved.

Description	Item#	Each
Half-Facepiece Respirator	**805-1035**	**$51.40**
Replacement Deluxe Cartridges, pair	**805-1036**	**15.05**
Replacement Deluxe Prefilters, pair	**805-1037**	**4.00**
Replacement Retainer Rings, pair	**805-1038**	**5.25**

B

C

D

B-D 3M™ Disposable Particulate Respirators

Classic disposable N95 *particulate* respirator designed to help provide comfortable and protection against certain non-oil based particles. Features Advanced Electrostatic Media, welded strap attachment, soft nose foam, and an adjustable noseclip to help ensure a custom and secure seal.

Disposable N95 *particulate flatfold* respirator features soft inner material and 3M™ Cool Flow™ Valve to provide comfortable, reliable respiratory protection. Ideally suited for work situations involving heat, humidity, or long periods of wear.

Economical N95 disposable *particulate welding* respirator provides respiratory protection for applications where metal fumes may be present. Features 3M™ Cool Flow™ Valve, braided headband and adjustable M-noseclip providing a custom and secure seal, an economical option for welders.

Description	Item#	CASE Prices 1-2	3+
B. Particulate, 20 per case	**805-0995**	**$18.65**	**$17.72**
C. Particulate Flatfold, 10 per case	**805-0997**	**21.15**	**20.09**
D. Particulate Welding, 10 per case	**805-0999**	**31.20**	**29.64**

E

E. Corded Earplugs

These soft foam tapered plugs fit easily and securely in the ear. Made of hypoallergenic material. Have noise reduction rating of 29 dB when used as directed. Connected by a braided plastic cord that prevents loss. Easy to carry and handy to have for visitors who might be exposed to loud noise. Sold in packages of 10 pairs and boxes of 100 pairs (each pair is individually packaged for cleanliness).

Description	Item#	Each
Corded Earplugs, pkg. of 10 pairs	**805-1061**	**$3.15**
Corded Earplugs, box of 100 pairs	**805-1060**	**30.30**

F

F. Face Shield – Complete protection with excellent optics.

Lightweight plastic shield for full face and neck protection while grinding, drilling or polishing. Can be worn over dust masks, respirators and glasses. Features pivoting visor for easy raising and lowering, molded visor edge for reinforcement, cushioned vinyl comfort band and adjustable headbands. Visor measures 8"L x 12"W x .040" thick. Does not eliminate need for safety glasses.

Description	Item#	Each
D. Face Shield	**270-0210**	**$21.00**
Replacement Visor	270-0212	4.65
Replacement Vinyl Sweatband	270-0214	1.48

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A. Safety Glasses

Comfortable, lightweight safety glasses with high-impact plastic lenses for full eye protection when drilling, polishing and more. One size fits all. Meet ANSI Z87.1 requirements.

Description	Item#	Each
Safety Glasses	**270-0205**	**$4.30**

A

B. Aspen Safety Glasses

Our Aspen Safety Glasses provide eye protection against most common eye hazards of polishing and benchwork except for severe impacts. Feature polycarbonate lenses, browbar and side shields. Also offer UV protection. Meet ANSI Z87.1 requirements.

Description	Frame	Item#	Each
Aspen Safety Glasses	Clear plastic	**270-0123**	**$9.95**

B

C. Panaspec Plus Safety Glasses

Feature impact-resistant clear polycarbonate lenses that provide eye protection against most common eye hazards of benchwork, polishing and more. Side panels and browbar help provide protection from the side and from above the eye. Available in three different polycarbonate frame colors. Meet ANSI Z87.1 requirements.

Description	Item#	Each
Glasses with Smoke Gray Frame	**270-0100**	**$7.50**
Glasses with Clear Frame	**270-0101**	**7.50**
Glasses with Brown Frame	**270-0102**	**7.25**
Replacement Lens (clear)	270-0112	3.60

C

D. Safety Goggles

A must for polishing, buffing and grinding. Comfortable and lightweight, they easily fit over glasses. Have polycarbonate lens. The sides and top are perforated to reduce fogging. One size fits all. Meet ANSI Z87.1 requirements.

Description	Item#	EACH Prices 1-2	3+
Safety Goggles	**270-0200**	**$9.50**	**$9.03**

F. Bausch & Lomb® Eye Wash

This eye irrigating solution flushes away foreign particles, chlorine and other eye irritants. Gently cleanses and soothes irritated eyes. Keep on hand for eye emergencies. Includes sterile eye wash cup. Sold in 4 oz. dropper bottles.

Description	Item#	Each
Eye Wash	**272-1002**	**$5.99**

F

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A

A. Benchtop Sandblaster – Dual Entry

Compact unit with solid molded construction for eliminating annoying leaks, large viewing glass, adjustable pressure regulator and self-cleaning nozzle with replaceable orifice. Has left-hand and right-hand heavy-duty rubber gloves and foot pedal blast control. It sits comfortably atop the workbench and can be easily moved when not in use. Holds and recirculates coarse or fine media, including matte sand, crushed ruby or glass beads (see p. 478). Includes two replacement ceramic orifices, internal light bulb and 5 lbs. Quartz abrasive.

Specifications:

Media Capacity: 5 lbs.
Air requirement: 25–100 PSI at 2.4 CFM
Dimensions: 11½"W x 12"D x 18"H
Ship. Wt.: 18 lbs.

	Description	Electrical	Item#	Each
A.	Dual Sandblaster	110V, 50/60Hz	**854-0060**	**$525.00**
		220V, 50/60Hz	**854-0065**	**525.00**
	Replacement Viewing Panel		854-0056	27.00
	Replacement Nozzle Assembly Kit (two ceramic orifices and two setscrews)		854-0057	39.25
	Replacement Gloves, pair		854-1278	11.75

B

B. Wolf™ Sandblaster – Dual Entry

This compact unit provides all the features you've wanted in a sandblaster: crystal-clear acrylic cabinet lets in plenty of light for easy viewing of work in progress; large lid opens wide to accommodate big pieces and is lined with replaceable Protective Shield to prevent frosting; pivoting nozzle adjusts to differently sized pieces; on/off switch located inside the cabinet offers quick flow control; rear-mounted air filter eliminates clump-causing moisture and includes a quick-disconnect fitting for your air hose; integral dust filter and lid gasket keep hazardous dust out of the workplace; and metal grate holds pieces above the abrasive media. Permits two-handed operation for easy working. Holds and recirculates coarse through fine media, including matte sand, crushed ruby or glass beads (see p. 478). Imported.

Specifications:

Media Capacity: 5 lbs.
Air Requirement: 42–70 PSI
Dimensions: 19"W x 17"D x 16"H
Ship. Wt.: 19 lbs.

	Description	Item#	Each
B.	Wolf Sandblaster	**854-0080**	**$610.00**
	Replacement Protective Shield	854-0081	16.95

See page 478 for more Sandblasting Medias.

C

C. Crushed Ruby

Synthetic ruby crushed to a 212–300 micron range for imparting a unique matte finish with a subtle sparkle. Provides best results with 60–80 PSI of air pressure. Cannot be used with Microetcher due to micron size. Sold in 5 lb. package.

Description	Micron	Item#	Each
Crushed Ruby, 5 lbs.	212–300	**854-1297**	**$149.00**

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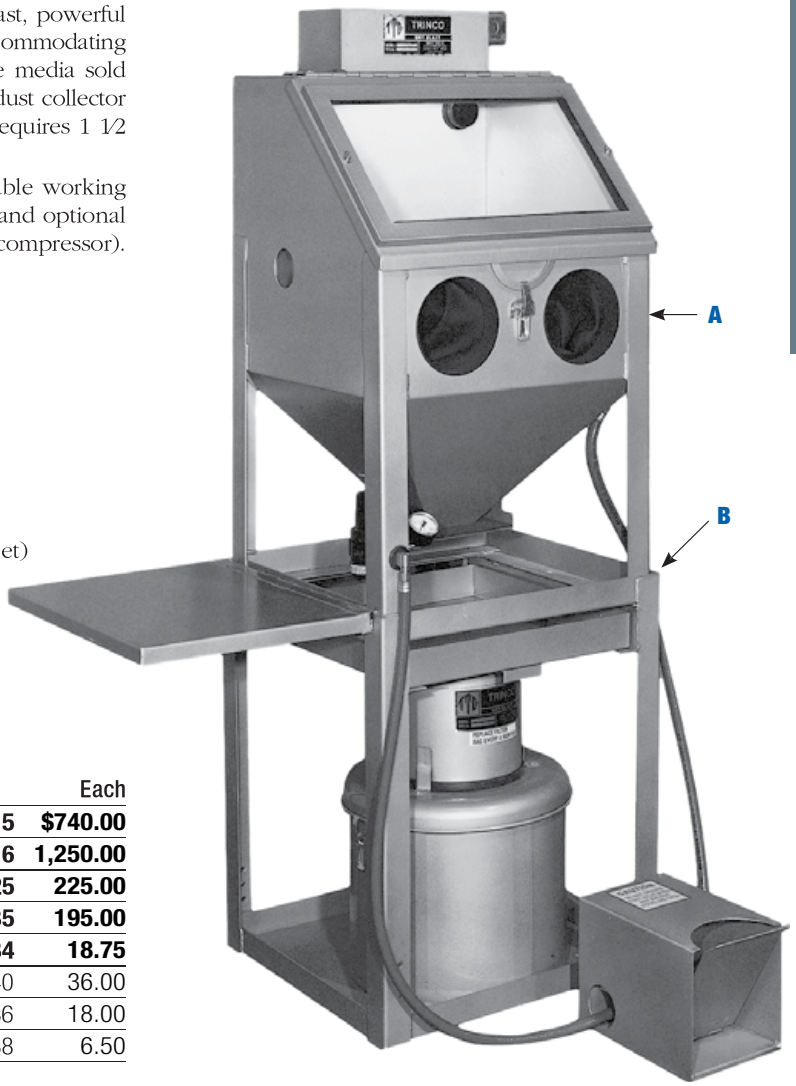
A, B Power Sandblaster #20

Our heavy-duty Power Sandblaster #20 features 6 CFM gun for fast, powerful blasting and large front-opening door and work chamber for accommodating large or multiple parts. Holds and recirculates 20 lbs. of abrasive media sold separately (see p. 478). Removes fine dust particles via a built-in dust collector with easily replaceable filter for safe, efficient, clean operation. Requires 1 1⁄2 HP air compressor.

Can be mounted on a bench or an optional stand at a comfortable working height. Accepts optional pencil gun attachment with 1⁄16" orifice and optional 12 CFM gun jet for double the blasting power (requires 3 HP air compressor). Made in USA.



Features:

- 14-gauge welded steel construction
- Heavyweight rubber gloves
- Dust collection system
- Fluorescent light
- Double-laminated safety viewing glass
- 6 CFM tungsten carl nozzle and jet
- Trapdoor for easy n
- Pressure regulator a
- Safety foot valve bla

Specifications:

Airflow:	6 CFM (12 CFM with optional gun jet)
Dimensions:	
Overall:	21"W x 18½"D x 38½"H
Inside:	20"W x 18"D x 18"H
Door Opening:	20"W x 15"H
Viewing Glass:	18"W x 10"H
Dust Collector:	15" dia. x 24"H
Ship. Wt.:	165 lbs.

	Description	Electrical	Item#	Each
A.	Sandblaster #20	115V, 1 Ph, 60Hz	**854-0015**	**$740.00**
		230V, 1 Ph, 50/60Hz	**854-0016**	**1,250.00**
B.	Optional Stand with Swing-Out Shelf		**854-0025**	**225.00**
	Optional Pencil Gun Attachment		**854-0035**	**195.00**
	Optional 12 CFM Gun Jet		**854-0034**	**18.75**
	Replacement 24" Gloves, pair		854-0040	36.00
	Replacement Dust Filter		854-0036	18.00
	Replacement Viewing Glass Shields, pkg. of 10		854-0038	6.50

C. Microetcher™ Model E

A reliable, precise miniature tool designed for jewelers. Small in size yet powerful enough for devesting castings, removing oxides, etching, texturing, preparing surfaces for soldering, creating matte surface finishes and detailing, especially in tight areas. Features a ½" diameter handpiece with tungsten carbide tip, extra-flexible 6' air line and sensitive finger control valve for precise on/off action. Use a Prefilter/Coalescing Filter #850-7353 (see p. 248) for your compressed air line to prevent moisture from entering the media reservoir and clogging the sandblaster. Recommended for use with Aluminum Oxide #854-1294, Jet Brite Glass Beads #810-1200 or Glass Beads #854-1291 (see p. 478). Requires 60–100 PSI air supply.

Includes:

- Handpiece with replaceable 0.048" carbide tip
- Push-button finger control valve
- Abrasive reservoir with two quick-switch interchangeable jars for rapid media change.
- 6' flexible air line with fittings

Description	Item#	Each
Microetcher Model E	**854-1283**	**$168.00**

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Sandblasting Medias

Sandblasting abrasive medias have many different applications, including cleaning, peening metal, removing investment from cast parts, removing imperfections, blending surfaces, deburring, finishing, decorating and descaling. Work is cleaned, deburred, decorated and cold-worked without etching, removing surface details or leaving undesirable residues.

A

A. Aluminum Oxide

Aluminum oxide, 90 micron, tan in color. Allows rapid removal of oxides, scales, cements, resins and investment. Excellent for soldering and preparing metallic surfaces for bonding. Can be used in any sandblaster. Sold in 1 lb. package.

Description	Micron	Item#	EACH Prices 1-4	5+
Aluminum Oxide, 1 lb.	90	**854-1294**	**$19.75**	**$16.79**

B

B. Matte Sand

Graded aluminum oxide in a 300–350 micron range for imparting a beautiful matte finish coarser than glass beads and slightly finer than crushed ruby. Produces a finish similar to the traditional quartz abrasive but contains no silica. Yields best results with 50–80 PSI of air pressure. Cannot be used with Microetcher due to micron size. Sold in 5 lb. package.

Description	Micron	Item#	EACH Prices 1-4	5+
Matte Sand, 5 lbs.	300–350	**854-1298**	**$42.50**	**$40.38**

C

C. Crushed Ruby

Synthetic ruby crushed to a 212–300 micron range for imparting a unique matte finish with a subtle sparkle. Provides best results with 60–80 PSI of air pressure. Cannot be used with Microetcher due to micron size. Sold in 5 lb. package.

Description	Micron	Item#	Each
Crushed Ruby, 5 lbs.	212–300	**854-1297**	**$149.00**

D

D. Jet Brite Glass Beads

Glass beads in the 50–105 micron range coated with silicone to repel moisture. Stay separated to prevent clogging of sandblaster. Impart an attractive satin-blasted finish. Can be used with any sandblaster. Air pressure must be kept under 45 lbs. to obtain best results and prevent beads from shattering. Sold in 5 lb. package.

Description	Micron	Item#	EACH Prices 1-4	5+
Jet Brite Glass Beads, 5 lbs.	50–105	**810-1200**	**$34.00**	**$32.30**

E

E. Glass Beads

Glass beads, 100 micron. Actual round beads, not cupels (oval-shaped beads with seams that crack easily), so they cost less in the long run. Impart an attractive satin-blasted finish. Can be used with any sandblaster. Air pressure must be kept under 45 lbs. to obtain best results and prevent beads from shattering. Sold in 5 and 25 lb. packages.

Description	Micron	Item#	Each
Glass Beads, 5 lbs.	100	**854-1291**	**$18.50**
Glass Beads, 25 lbs.	100	**854-1292**	**69.95**

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A. SilentAire Compressor – Quiet yet powerful!

Premium value model with cooling fins for improved ventilation and Filter-Regulator with auto-drain feature and condensate bottle. Coalescent Filter to 0.01 micron.

So quiet you'll barely know it's there. Makes about as much noise as a refrigerator, so you can keep it under your table and work without distraction. Features powerful 1/2 HP motor that provides over 2 CFM of air. Handles up to 10 large Wax Injectors. Fully automatic. Includes handle for easy carrying. Measures 13" dia. x 25"H. Weighs 58 lbs. May require additional filter at the air tool to eliminate condensation that can form in very long airlines (see page 248). Accepts ¼" male fittings (see below). Made in Italy.

Features:

- Tank and line pressure gauge
- Line pressure regulator
- Moisture trap and filter
- Safety valve
- Air-intake filter

Specifications:

Motor	1/2 HP
Max. Pressure	114 PSI
Tank Capacity	4 gals.
Displacement	2.15 CFM
Noise Level	40 dB

	Description	FOB	Electrical	Item#	Each
A.	SilentAire Compressor	CT	110V	**265-3100**	**$1,175.00**
	SilentAire Compressor	TX	110V	**265-3101**	**1,145.00**
	SilentAire Compressor	CT	220V, 50/60Hz	**265-3102**	**1,225.00**
	Replacement Oil, 22 oz.			265-3103	27.00

A

B, C Miniature Prefilter/Coalescing Filter Assembly

Ideal for applications requiring dry and extremely clean air. Designed for air compressors rated up to 3.5 CFM. Prefilter removes liquid and solid particles down to 5 microns; coalescing filter removes particles down to 0.01 micron. Use optional bracket to mount on wall or bench. For best results, mount as close to the tool as possible to capture all moisture from air compressor line before it enters the tool. Maximum inlet pressure: 150 PSI. Ports: ¼".

	Description	Item#	Each
B.	Filter Assembly	**850-7353**	**$109.00**
C.	Mounting Bracket	**850-7359**	**14.50**
	Replacement Prefilter (white)	850-7337	19.95
	Replacement Coalescing Filter (green)	850-7357	62.00

B

C

D-N Quick Disconnect Air Hose and Fittings

Sturdy ¼" O.D. nylon air hose with .040" wall thickness and a collection of timesaving quick-disconnect fittings. To connect, just push air hose into fitting—it automatically locks in place. To disconnect, push back plastic ring on fitting and pull air hose out. The ¼" and ⅛" male fittings work with a variety of sandblasters, wax injectors, sprue cutters and more. Use ¼" males for air filters, regulators and vacuum pumps.

	Description	Item#	Per Foot
D.	Nylon Air Hose, ¼" O.D.	**265-2286**	**$0.94**
	Description	**Item#**	**Each**
E.	QD Connector, Male, ¼"	**265-2276**	**$6.85**
F.	QD Elbow, Male, ¼"	**265-2288**	**7.80**
G.	QD Swivel Elbow, Male, ⅛"	**265-2291**	**5.96**
H.	QD Swivel T-Connector, Male, ¼"	**265-2278**	**7.70**
I.	QD Connector, Male, ⅛"	**265-2277**	**3.75**
J.	Nipple Reducer, ¼"–⅛"	**265-2289**	**3.95**
K.	Plug for QD ¼" Connectors	**265-2283**	**1.60**
L.	Coupling, Female, ¼" to ¼"	**265-2284**	**2.75**
M.	QD Union (Straight), ¼"	**265-2282**	**4.65**
N.	QD Union T, ¼"	**265-2281**	**6.65**

D

E F G H

I J K L M N

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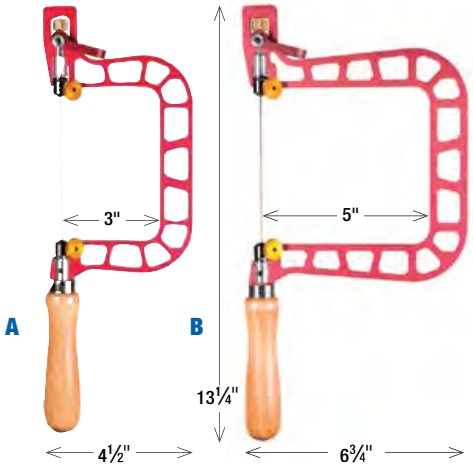


A, B Knew Concepts Precision Saw Frames

Cam Lever Tension

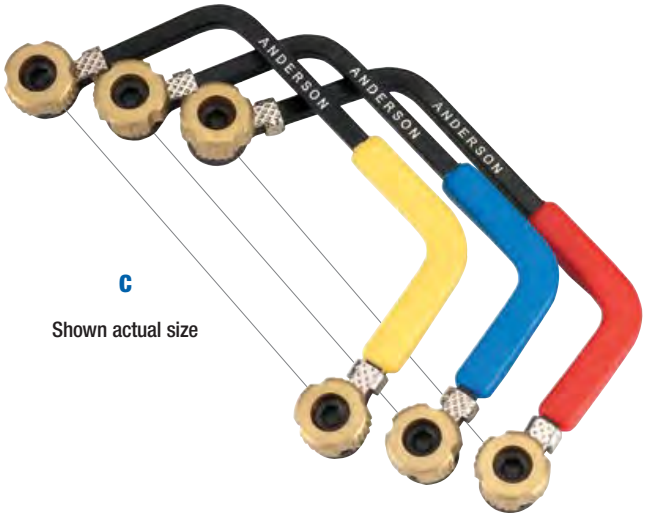
New and improved saws from Knew Concepts. Designed for rapid, repetitive blade changes, when piercing for example. The tension does not change when re-setting the blade. Simply flip the cam lever forward to release tension, re-position and clamp the blade, and flip the lever to the rear, and you are sawing at proper tension.

Knew Concepts Saws are designed for maximum rigidity to eliminate or minimize blade breakage. Frames are made of heat treated aluminum with cutouts to further reduce the weight making these the lightest and most comfortable saw frames in the industry.

The unique blade-tensioning system makes mounting the sawblade extremely fast and easy (and without the usual dents in your sternum).

Clinical trials have shown that the color red promotes accuracy so Knew Concepts has chosen this color for their saw frames. Available in 2 depths, 3" and 5". Both frames accommodate standard 5⅛" jeweler's sawblades.

	Description	Item#	Each
A.	3" Saw with Cam Lever	**812-1297**	**$65.00**
B.	5" Saw with Cam Lever	**812-1298**	**84.95**



C

Shown actual size

C. Miniature Saw Frames

These sturdy, well-made Miniature (2⅝" Length) Saw Frames from goldsmith David Anderson are perfect for performing delicate operations such as gem setting or making relief cuts on prongs which have already been partially folded over stones. Available in 3 colors to quickly and easily differentiate between different blade sizes or allow easy differentiation among users. Throat depth: approximately 1¼". Weighs only 0.54 oz.

		EACH Prices		
Description	Item#	1-2	3-5	6+
Red	**187-1175**	**$9.50**	**$9.03**	**$8.55**
Blue	**187-1176**	**9.50**	**9.03**	**8.55**
Yellow	**187-1177**	**9.50**	**9.03**	**8.55**
Set of All 3	**187-1178**	**24.50**	**23.28**	**22.05**

D

D. Gesswein® Lube-Stik

Use on grinding, cutting, drilling, piercing or similar tools to speed up production and increase tool life. Reduces friction and heat buildup so that tools stay sharper, work faster and cut smoother. Easy to use—just run your tools into the soft lubricant every so often. Can also be used to reduce the effort needed for drawing operations. Supplied in a handy push-up dispenser tube.

		EACH Prices	
Description	Item#	1-9	10+
Lube-Stik	**816-2460**	**$5.25**	**$4.73**

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A. Jeweler's Sawframe – With end screw

Quality steel sawframe with end screw and comfortable wooden handle. Holds sawblades up to 6" long. End screw allows precise adjustment of blade tension. Imported.

Description	Depth	Item#	EACH Prices 1-2	3+
Small with End Screw	2⅞"	**187-1026**	**$10.95**	**$9.86**

A

B-D Flat Sawframes

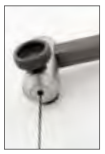
Quality adjustable steel frames in four convenient sizes. Feature thumbscrews for quick tightening and loosening of sawblades and hardened steel plates with serrated surfaces for firmly holding sawblades up to 6" in length. Adjust to allow use of broken sawblades. Have comfortably shaped hardwood handles. Imported.

	Description	Depth	Item#	EACH Prices 1-2	3+
B.	Small Flat	2¼"	**187-1159**	**$6.50**	**$5.85**
	Med. Flat	2⅞"	**187-1160**	**8.45**	**7.61**
C.	Large Flat	3¾"	**187-1170**	**9.45**	**8.51**
D.	X-Large Flat	4¾"	**187-1171**	**11.15**	**10.04**

B

C

D



E

F

E, F Swiss Sawframes

Spring steel frames with aluminum guide posts and guides, holes at both ends for quick blade insertion and perfect alignment every time. Feature easy-lock mechanism that prevents wobble, reducing blade breakage. Have ultra-lightweight rubber-coated sure-grip handles for easier cutting and reduced arm fatigue. Available fixed for standard 5¼" jeweler's sawblades or adjustable for broken blades. Made in Switzerland.

	Description	Depth	Item#	EACH Prices 1-2	3+
E.	Adjustable Swiss	2¾"	**187-1120**	**$16.50**	**$14.52**
F.	Fixed Swiss	2¾"	**187-1122**	**18.30**	**16.10**

G

H

G, H Apprentice's Sawframes

Beautiful chrome-plated sawframes priced low enough for students. Feature thumbscrews and slightly oversized polished wooden handles. Slightly more flexible for easier tightening of sawblades. Available in fixed style for holding standard-size blades and adjustable style for holding both standard-size and broken blades.

	Description	Depth	Item#	EACH Prices 1-2	3+
G.	Fixed Apprentice	3¼"	**187-1180**	**$5.80**	**$5.22**
H.	Adjustable Apprentice	3¼"	**187-1185**	**6.50**	**5.85**

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Sawblade Specifications

Blade Size	Blade Thickness	Blade Depth	Approx. Teeth per inch	Recommended for: (B&S) Gauge	Drill Size for Piercing
8/0	.0063"	.0126"	89	up to 26	80
7/0	.0067"	.0134"	86	24–26	80
6/0	.0071"	.0142"	81	24	79
5/0	.0079"	.0157"	76	22–24	78
4/0	.0087"	.0173"	71	22	77
3/0	.0094"	.0189"	66	22	76
2/0	.0102"	.0205"	61	20–22	75
0 (1/0)	.0110"	.0220"	56	18–22	73
1	.0118"	.0236"	51	18–20	71
2	.0134"	.0276"	46	16–18	70
3	.0142"	.0295"	41	16–18	68
4	.0150"	.0315"	38	16–18	67
5	.0157"	.0335"	36	16	65
6	.0173"	.0374"	33	14	58
7	.0189"	.0402"	30	12	57
8	.0197"	.0441"	28	12	55

A

A. Pike Platinum Jeweler's Sawblades

These blades are tougher and more durable than standard jeweler's sawblades. Ideal for platinum because teeth stay sharper longer. Measure 5¼" (13cm) long. Made in Switzerland. Sold by the gross.

Size	Thickness	Width	Approx. Teeth Per Inch	Item#	GROSS Price
4/0	0.009"	0.017"	64	**187-0500**	**$27.20**
3/0	0.010"	0.019"	57	**187-0501**	**24.65**
2/0	0.010"	0.021"	53	**187-0502**	**24.65**
1/0	0.011"	0.023"	51	**187-0503**	**24.65**
1	0.012"	0.025"	47	**187-0504**	**24.65**
2	0.013"	0.027"	44	**187-0505**	**24.65**

B

B. Skip-Tooth Sawblade

Designed for smooth wax cutting. Teeth are widely spaced to prevent clogging. Measures 13cm (5¼") long. Sold by the dozen.

Description	Item#	DOZEN Prices 1-2	3+
Skip-Tooth Sawblade	**186-9060**	**$4.20**	**$3.36**

C

C. Spiral Sawblade

For cutting hard wax models. Teeth are spaced to prevent clogging. Circular design permits cutting in all directions. Measures 13cm (5¼") long. Sold by the dozen.

Description	Item#	DOZEN Prices 1-2	3+
Spiral Sawblade	**186-9050**	**$4.20**	**$3.36**

D

D. Diamond Sawblades

Consist of piano wire electroplated with diamond particles. Make quick work of sawing glass, ceramic and stones. Available in four grits. Fit standard jeweler's sawframes. Measure 5⅜" long. Plated portion measures approx. 3" long. Sold individually.

Grit	Approx. Diameter	Item#	EACH Prices 1-2	3+
60 Coarse	0.058"	**226-1500**	**$8.95**	**$8.06**
100 Medium-Coarse	0.048"	**226-1505**	**8.95**	**8.06**
120 Medium	0.045"	**226-1510**	**8.95**	**8.06**
140 Medium-Fine	0.043"	**226-1515**	**8.95**	**8.06**

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A. Herkules® "White Label" Piercing Sawblades

High-quality sawblades made of a special alloy steel. Feature teeth that are uniform in size, shape and sharpness for fast, easy cutting. Can be used on both hand- and power-driven tools that have a blade clamping device. Measure 13cm (5¼") long. Made in Germany.

A

Size	Thickness	Width	Approx. Teeth Per Inch	Item#	Dozen	Item#	GROSS Prices 1-2	3-5	6+
8/0	0.0063"	0.0126"	89	**185-0080**	**$4.45**	**186-0080**	**$31.85**	**$30.26**	**$27.71**
7/0	0.0067"	0.0134"	86	**185-0070**	**4.30**	**186-0070**	**30.25**	**28.74**	**26.32**
6/0	0.0070"	0.0142"	81	**185-0060**	**4.10**	**186-0060**	**27.15**	**25.79**	**23.62**
5/0	0.0080"	0.0157"	76	**185-0050**	**3.60**	**186-0050**	**26.00**	**24.70**	**22.62**
4/0	0.0086"	0.0173"	71	**185-0040**	**3.30**	**186-0040**	**22.90**	**21.76**	**19.92**
3/0	0.0095"	0.0189"	66	**185-0030**	**2.95**	**186-0030**	**20.45**	**19.43**	**17.79**
2/0	0.0103"	0.0205"	61	**185-0020**	**2.95**	**186-0020**	**21.25**	**20.19**	**18.49**
0	0.0110"	0.0220"	56	**185-0010**	**2.95**	**186-0010**	**21.95**	**20.85**	**19.10**
1	0.0120"	0.0236"	51	**185-0100**	**3.00**	**186-0100**	**21.25**	**20.19**	**18.49**
2	0.0134"	0.0276"	46	**185-0200**	**3.00**	**186-0200**	**21.25**	**20.19**	**18.49**
3	0.0140"	0.0295"	41	**185-0300**	**3.00**	**186-0300**	**21.25**	**20.19**	**18.49**
4	0.0150"	0.0315"	38	**185-0400**	**3.00**	**186-0400**	**21.25**	**20.19**	**18.49**
5	0.0158"	0.0335"	36	**185-0500**	**3.30**	**186-0500**	**23.00**	**21.85**	**20.01**
6	0.0173"	0.0374"	33	**185-0600**	**3.30**	**186-0600**	**25.90**	**24.61**	**22.53**
7	0.0189"	0.0402"	30	**185-0700**	**4.40**	**186-0700**	**32.70**	**31.07**	**28.45**
8	0.0197"	0.0441"	28	**185-0800**	**4.80**	**186-0800**	**34.85**	**33.11**	**30.32**
10	0.0215"	0.0551"	24	**185-1000**	**5.40**	**186-1000**	**41.95**	**39.85**	**36.50**
12	0.0236"	0.0650"	19	**185-1200**	**6.75**	**186-1200**	**49.30**	**46.84**	**42.89**
14	0.0236"	0.0709"	18	**185-1400**	**7.50**	**186-1400**	**55.50**	**52.73**	**48.29**

B. SUPRA® Golden Piercing Sawblades – The world's finest sawblades at great prices!

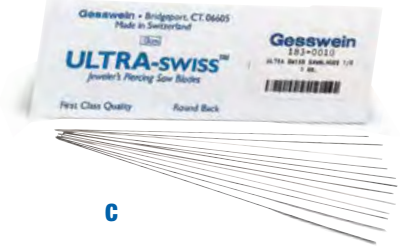
Extremely flexible straw-colored sawblades made of the finest steel using the latest technology. Cut straight and stay sharp. Can be used on both hand- and power-driven tools that have a blade clamping device. Measure 13cm (5¼") long. Made in Germany. Sold by the gross.

B

Size	Thickness	Width	Approx. Teeth Per Inch	Item#	GROSS Prices 1-2	3-5	6+
6/0	0.0070"	0.0140"	82	**187-0060**	**$29.95**	**$26.96**	**$23.96**
5/0	0.0080"	0.0157"	80	**187-0050**	**26.50**	**23.85**	**21.20**
4/0	0.0086"	0.0175"	72	**187-0040**	**23.95**	**21.56**	**19.16**
3/0	0.0095"	0.0190"	66	**187-0030**	**21.80**	**19.62**	**17.44**
2/0	0.0103"	0.0204"	62	**187-0020**	**21.80**	**19.62**	**17.44**
0	0.0110"	0.0220"	56	**187-0010**	**21.80**	**19.62**	**17.44**
1	0.0120"	0.0240"	52	**187-0100**	**21.80**	**19.62**	**17.44**
2	0.0134"	0.0276"	48	**187-0200**	**21.80**	**19.62**	**17.44**
3	0.0140"	0.0290"	46	**187-0300**	**21.80**	**19.62**	**17.44**

C. ULTRA-Swiss™ Piercing Sawblades

Extremely flexible straw-colored sawblades made of a special steel alloy. Break less often and last much longer than ordinary sawblades, even under rough conditions. Have rounded backs for sawing curves with more control. Measure 13cm (5¼") long. Made in Switzerland. Sold by the gross.



C

Size	Thickness	Width	Approx. Teeth Per Inch	Item#	GROSS Prices 1-2	3-5	6+
6/0	0.0070"	0.0140"	82	**183-0060**	**$36.55**	**$32.90**	**$29.24**
5/0	0.0080"	0.0157"	80	**183-0050**	**32.90**	**29.61**	**26.32**
4/0	0.0086"	0.0175"	72	**183-0040**	**25.50**	**22.95**	**20.40**
3/0	0.0095"	0.0190"	66	**183-0030**	**23.00**	**20.70**	**18.40**
2/0	0.0103"	0.0204"	62	**183-0020**	**23.00**	**20.70**	**18.40**
0	0.0110"	0.0220"	56	**183-0010**	**23.00**	**20.70**	**18.40**
1	0.0120"	0.0240"	52	**183-0100**	**23.00**	**20.70**	**18.40**
2	0.0134"	0.0276"	48	**183-0200**	**23.00**	**20.70**	**18.40**
3	0.0140"	0.0290"	46	**183-0300**	**23.00**	**20.70**	**18.40**

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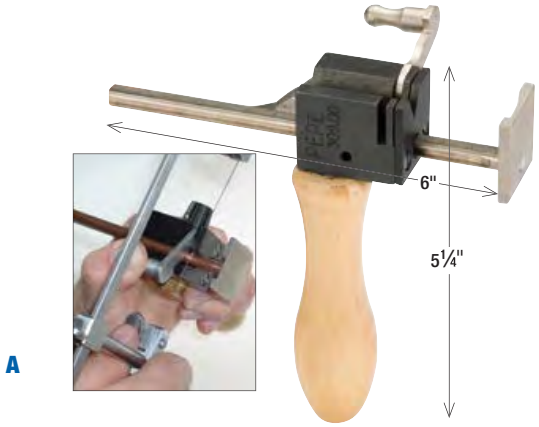
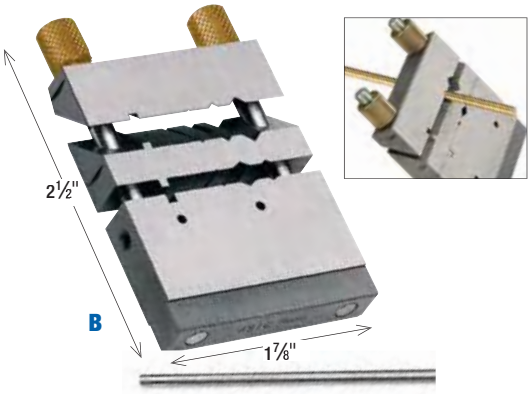


A

A. PEPETOOLS Tube Cutter

Lets you make straight cuts on tubing for jewelry manufacturing or repair. Features 1–13cm ruler and precision-machined components for fast, consistent cutting and comfortable wooden handle. Easy to use: just place stock in V-shaped jig, slide out to desired length, secure with built-in holder, position sawblade in guide and cut. Jewelers saw frame and blade not supplied with unit.

Description	Item#	Each
Tube Cutter	**812-1291**	**$49.00**

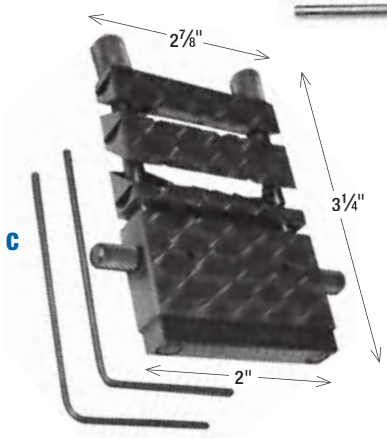


B

B. Premium Jewelers Miter Jig

A high-quality three-section cutter for making ultra-precise 45° and 90° angled cuts on tubing or wire. Upper locking screws allow adjustment for large or small stock. Adjusting screws and guides ensure exact repetition of desired lengths. Can be held in hand or secured with a bench vise for stability. High Precision machined. 58 Rockwell hardness. Includes instructions. Measures 2½" x 1⅞". Made in France.

Description	Item#	Each
Premium Jewelers Miter Jig	**812-1289**	**$221.00**



C

C. Miter Cutting Jig

Precision manufactured tool for cutting, bending and scoring sheet and wire, 62-65 RC. Available angles 45°, 60°, 90°, 120° and 135°. Includes stop for repeated cuts. Made of high carbon tool steel. Nine grooves are designed to hold a wide range of wire and tubing. Measures 3¼" x 2⅞".

Description	Item#	Each
Miter Cutting Jig	**812-1287**	**$109.00**

D

D. Matt™ Miter Box and Saw Set

Includes extruded aluminum miter box with stop-lock and steel back saw. Slices wax bars, rods and ring tubes into tablets with perfectly straight and parallel walls or tapered sides. Miter box holds the ring tube firmly in place to eliminate hand strain. Stop-lock lets you cut multiple tablets of the same thickness. Rugged steel sawblade cuts through tubes with very little effort, leaving a smooth finish. Miter box measures 6"L x 2"W. Sawblade measures 6½"L x 2"D.

	Description	Item#	Each
D.	Miter Box and Saw Set	**265-2346**	**$55.00**
	Replacement Sawblade	265-2348	17.00

E

E. Razor Saw

A must for cutting metal, wood and plastic rod and tubing. Features specially hardened, rigid thin blade with fine teeth (32 teeth per inch) ideal for making straight cuts. Lets you cut with light pressure to prevent tubing collapse. Measures 9⅛" overall length. Blade measures 4½"L x 7/16"D.

Description	Item#	Each
Razor Saw	**812-1281**	**$6.50**

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A. PEPETOOLS Jump Ringer JRM2 – Better Than Ever!

Made in the USA

The perfect set for winding your own jump rings easily in consistent sizes. Use the Rotary Winder and winding rods to wrap wire into a coil, which can then be cut into jump rings using the circular saw-blade in your #30 handpiece. Ship. Wt. 8lbs. Made in USA.

- Includes Rotary Winder, 20 steel winding rods, circular sawblade, handpiece holder, precision machined cutting box, and aluminum base (9"L x 4½"W).
- Winding rods are 4" long in mm sizes: 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, and 12.0mm.
- Included 1¼" circular sawblade cuts up to 18 gauge/1.0mm soft wire. Optional 1½" sawblade cuts up to 16 gauge/1.2mm.

	Description	Item#	Each
A.	PEPETOOLS Jump Ringer	**856-0445**	**$189.00**
	Optional Circular Sawblade 1½"	**856-0443**	**15.00**
	Replacement Sawblade 1¼"	856-0442	12.00

A

B, C Jump Ringer™ System

A money-saving system for making your own jump rings in seconds!

Make perfectly uniform jump rings with inside diameters from 1.5mm to over 25.4mm (1"). Cuts plain and fancy gold, silver, gold-filled, copper, brass, aluminum and niobium wire. Will not cut iron, steel, titanium or platinum wire.

Features precision-engineered winder with greased nylon bearings for ultra-smooth action. Winds stock wire into a coil, which you then place in a holder and cut apart into jump rings using your flex-shaft and a #30 handpiece with the supplied rotary sawblade. Has unique safety guard/guide that protects your fingers during cutting and ensures jump rings are cut straight and on-center.

Jump Ringer System includes winder, 5" coil, coil holder, safety guard/guide for your #30 handpiece, rotary sawblade with mandrel, chuck key and three round steel mandrels in 0.094", 0.141" and 0.234" diameters. **Works with Mandrel Sets listed below to make jump rings in a wide range of sizes and shapes.** If you have your own method of cutting, you can purchase the Winding Set separately. Includes winder, chuck key and three round steel mandrels. Or if you have your own method of winding, you can purchase the Cutting Set separately. Includes coil holder, safety guard/guide for your #30 handpiece and rotary sawblade with mandrel.

	Description	Item#	Each
B, C	Complete Jump Ringer System (B and C)	**815-2011**	**$348.00**
B.	Jump Ringer Winding Set	**815-2014**	**124.75**
C.	Jump Ringer Cutting Set	**815-2013**	**248.90**
	Replacement Sawblade	815-2015	12.99

View instructional video at www.gesswein.com

B

C

D-F Jump Ringer™ – Mandrel Sets

Use with your Jump Ringer. Oval and Square Mandrel Sets include seven brass mandrels each and require use of Multi-Shape Coil Holder to securely hold when cutting. Round Mandrel Set includes 16 round steel mandrels. All mandrels measure 3¾" long.

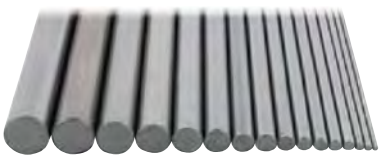
Mandrel Sizes:

- Oval Mandrel Set: 1.4 x 2.6, 2.1 x 3.4, 2.7 x 4.4, 3.8 x 6.2, 4.3 x 7.5, 6.2 x 11.5 and 9.2 x 14.6mm sizes
- Square Mandrel Set: 2.0, 3.0, 3.5, 4.5, 6.0, 9.0 and 12.0mm sizes
- Round Mandrel Set: 0.063", 0.078", 0.094", 0.125", 0.141", 0.156", 0.172", 0.188", 0.219", 0.234", 0.281", 0.313", 0.359", 0.391", 0.438" and 0.469" diameters.

	Description	Item#	Each
D.	Oval Mandrel Set	**815-2034**	**$56.00**
E.	Square Mandrel Set	**815-2036**	**56.00**
F.	Round Mandrel Set	**815-2020**	**95.45**
	Multi-Shape Coil Holder	**815-2038**	**124.75**

D

E



F

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A

A. Pneumatic Stone Setting Machines – The unit of choice for setting diamonds, colored stones and even synthetics with impressive speed and precision.

Available either with a table (also includes a tilting table for angle setting), or as a table top unit, these machines are a must for all jewelry manufacturers. These units represent a big leap forward in stone setting technology letting you quickly and easily tube set, burnish, bezel and bead set both flat and curved surfaces, as well as channel set in single and double rows. Simplifies many complicated procedures, taking the guesswork out of difficult jobs. Offers the precise control you need each and every time to set stones perfectly.

Both machines come with appropriate holders for both ring and flat items. The Table Top model includes two rollers and two punches for setting round stones, while the Setting Machine with Table version includes six rollers and six punches for setting round stones. Sizes 1.75, 2.00, 2.25, 2.50, 2.75 and 3.00mm are available standard diameters but other sizes are also available. Please discuss your requirements when placing your order.

Features:

- Easy to learn and operate, even for novices—requires no special stone setting experience.
- Lets you set stones quickly and consistently, making it perfect for high-volume production.
- Eliminates the need for time-consuming manual setting.
- Has precision-machined tooling for easy changing.

Specifications:	Setting Machine with Table	Table Top Model
Electrical:	220V, 1 Ph, 100W, 50/60Hz	220V, 1 Ph, 100W, 50/60Hz
Dimensions:	39½"W x 27½"D x 55"H	15¾"W x 9"D x 23⅝"H
Table Height:	32"	—
Air Requirement:	90 PSI	90 PSI
Pressure Readout:	Digital	Analog
Net Wt./Ship. Wt.:	250 lbs./414 lbs.	115 lbs./132 lbs.
Item#	**265-0349**	**265-0348**
	Please Call for Pricing	**Please Call for Pricing**

B

B. Premium Loose Stone Detector – Identify loose stones quickly and definitively.

Efficiently isolate stones that are loose from those that are not. Invaluable for checking settings after ring sizing. Works especially well for clusters of many small stones, such as pavé settings. Saves time over traditional methods.

Easy to use: slide your ring onto the padded mandrel, turn on unit and experiment with different vibration frequency and power settings until you are positively satisfied that every setting is sound. Includes a magnifier with flexible stand for taking a good, close look at potential problem areas as the detector vibrates. Combine that with your own light source, and no loose stone will escape your attention (see lighting pp. 335-339).

Compact enough (12⅝"W x 9⅝"D x 8¼"H) to store out of the way. Finished in matte black to eliminate most distracting reflections. Electrical: 110V. Weighs 22 lbs.

Description	Item#	Each
Premium Loose Stone Detector	**857-0030**	**$3,995.00**

C

C, D Marathon Micromotor Systems for Setters

Available as a complete set with the Marathon Controller, 35,000rpm Rotary Handpiece, Foredom Hammer Handpiece and On/Off Rheostat or simply the Marathon Controller with the Foredom Hammer Handpiece only.

The Marathon Micromotor Controller features dial adjustable speed control, overload cutoff switch, forward/reverse switch, and accepts a variable speed foot rheostat and a wide variety of micromotor handpieces. Electrical: 110~220V, 50/60Hz. Output voltage: 0–30V DC (continuously variable). Measures 4½"W x 5¾"D x 3¾"H. Weighs 2.6 lbs.

The 35,000rpm Rotary Handpiece features a well-balanced ergonomic design that fits in your hand like a pen, convenient quick-tool-change mechanism and flexible phone-type cord. Measures 6"L x 1" to ⅝" dia. Weighs 7.5 oz.

The Foredom Hammer Handpiece is perfect for stone setting - prong work and channel. Also used for texturing and for engraving using the included graver holding attachment. Three anvils with threaded shanks, wrench, tightening pins and an adaptor for non threaded anvils, motor brushes and a handpiece tray included.

D

	Description	Item#	Each
C.	Marathon Controller, Rotary Handpiece with 3/32" Collet, On/Off Rheostat, Foredom Hammer Handpiece	**510-2930**	**$849.00**
D.	Marathon Controller, Foredom Hammer Handpiece (no Rheostat)	**510-2935**	**675.00**
	Optional Variable Speed Rheostat for Marathon	**510-2940**	**60.00**
	Foredom Hammer Handpiece	**510-1280**	**595.00**

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A. JETT SETT® Thermoplastic and Tools

Make your own custom tools!

JETT SETT is an easy-to-use thermoplastic material for making fixturing devices, forming tools, custom tool handles and more. Becomes smooth and pliable when placed in hot water (140-160°F), at which point it can be formed into any shape desired. Hardens in just minutes when exposed to air and even faster when placed in cold water. Extremely tough and durable. To remove parts from JETT SETT and reuse, just immerse in hot water until soft again.

A

Fixturing Devices

Here are just some of the things you can make with JETT SETT:

- Fixturing devices for holding, setting and engraving any jewelry item.
- Custom-grip file and graver handles.
- Nonmarring surfaces for pliers and vises.
- Custom hammer heads that won't mar the metal you hammer.

Custom Grip Handle

Custom Hammer Heads

Description	Item#	Each
JETT SETT, 1 lb. pkg.	**816-1580**	**$36.00**

B. JETTBasic

A slightly more tacky form of JETT SETT with no ceramic content. Adheres well to smooth surfaces such as bezels when hot. Hardens and loses tackiness when completely cool. Clear in color, can also be used to make customized tool handles. Sold in 1 lb. bags.

B

Description	Item#	Each
JETTBasic, 1 lb. pkg.	**816-1591**	**$21.95**

C. GRS® Thermo-Loc®

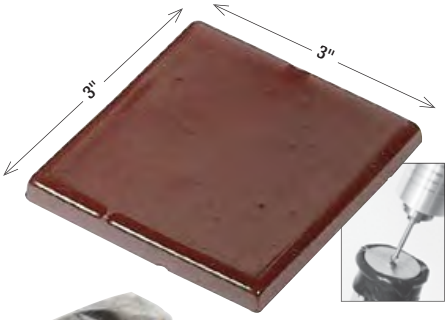
Very tough work-holding plastic. Softens with heat to clay-like pliable consistency so you can form it around an endless variety of workpieces. Turns rock-hard once it cools to hold items securely. Economical and practical—can be reused again and again. Neutral gray in color to prevent eyestrain, even under bright work lights. Heat in a microwave oven on the pad included with the Starter Kit, in a conventional oven, in hot water or with a heat gun (be sure to follow proper heating instructions).

C

Description	Item#	Each
Thermo-Loc, ½ lb.	**816-1592**	**$19.95**
Thermo-Loc, 1 lb.	**816-1593**	**33.95**
Thermo-Loc, 5 lbs.	**816-1594**	**139.95**
Thermo-Loc Starter Kit (includes 1 lb. Thermo-Loc and microwave-safe 6" x 6" pad)	**816-1597**	**42.95**

D. Diamond D Cement

Shellac mixed with wax to make it stronger and less brittle. When melted and applied to a wooden dowel, it securely holds diamonds and other stones for polishing. Also holds jewelry that's too small for conventional clamps. Easy to melt and use repeatedly. Can be pulled from setting when work is complete. Sold in 3 oz. cakes.



D

Description	Item#	Each
Diamond D Cement, 3 oz. cake	**811-2600**	**$26.95**

E. Orange Flake Shellac

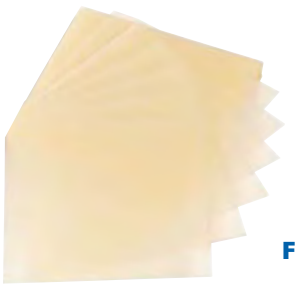
Used to hold small objects firmly for stone setting and engraving. Softens when heated. Hardens quickly in cold water. Articles can be removed by dipping in alcohol.

E

Description	Item#	Each
Orange Flake Shellac, 1 lb.	**816-1100**	**$32.00**
Orange Flake Shellac, ½ lb.	**816-1101**	**16.50**

F. Layout Wax Sheets

Place one of these transparent wax sheets on top of your jewelry drawing, then position the stones. Provides an excellent way to visualize your finished design prior to stone setting. Thickness: 24-gauge. Measure 4" x 4". Sold in boxes of 32.



F

Description	Item#	Each
Layout Wax Sheets, box of 32	**263-1000**	**$19.25**

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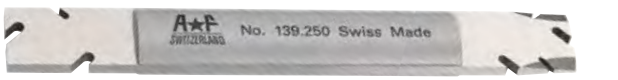

A. Prong Opening Pliers

Open prongs without fracturing stones. Use grooved jaw to hold prong in place and angled jaw to slip under prong and raise it. Avoid putting pressure on top of stone to prevent marring and scratching. Feature box joint for stability, perfectly aligned tapered jaws, double leaf springs and cushion grips. Measure 4½" long. Made in Germany.

Description	Jaw Length	Item#	EACH Prices 1-2	3+
Prong Opening	15/16"	**180-0020**	**$25.60**	**$23.04**

B. Prong Closing Pliers

Close prongs over stones without slipping. Use curved, tapered jaws with grooved tips to hold prong securely. Feature box joint for stability, perfectly aligned jaws, double leaf springs and cushion grips. Measure 4½" long. Made in Germany.

Description	Jaw Length	Item#	EACH Prices 1-2	3+
Prong Closing	15/16"	**180-0025**	**$25.60**	**$23.04**

C, D Stone Setting Pliers

Ideal for tightening prongs. Feature box joints for stability. Available in deluxe and economy styles. Measure 4¾" long.

	Description	Item#	EACH Prices 1-2	3+
C.	Deluxe German	**181-2900**	**$30.85**	**$29.31**
D.	Economy Imported	**181-2950**	**12.95**	**-**

E. Prong Pusher

Steel tool with flat end for pushing crown points or prongs onto stone. Also for forcing bezel around stones. Mounted in wooden handle. Measures approximately 3½" long.

Description	Item#	EACH Prices 1-2	3+
Prong Pusher	**816-0100**	**$2.75**	**$2.48**

F. Bezel Pusher

For pushing and rolling bezel around stone. Polished and grooved tip. Measures approximately 3½" long. Made in USA.

Description	Item#	Each
Bezel Pusher	**816-0110**	**$11.65**

G. Swiss Prong Lifter – Precise and accurately ground.

You need top quality in a frequently used tool. This prong lifter is sturdy and well-balanced. Its special hardened steel will not chip or wear. The seven precision-ground slots easily fit all sizes and types of prongs so they can be lifted easily and safely when remounting, resetting or retipping. Greatly reduces risk of damage to stone. Comfortable plastic handle is firmly bonded to tool. Measures 4¾"L x ½"W x ⅛" (3.3mm) thick. Made in Switzerland.

Description	Item#	Each
Swiss Prong Lifter	**816-0090**	**$58.95**

H. Precision Prong Lifter

This highly tempered prong lifter provides easy access to small prongs. Measures only 4"L x 0.079" (2mm) thick, so it's easy to maneuver in even the tiniest settings. Durable and precise. Made in USA.

Description	Item#	Each
Precision Prong Lifter	**816-0092**	**$12.95**

I. Bezel Roller

Has a half-round, highly polished steel head for rolling bezels around stones in rings, pendants and broaches. Measures approximately 4" long.

Description	Item#	EACH Prices 1-2	3+
Bezel Roller	**816-0120**	**$3.25**	**$2.93**

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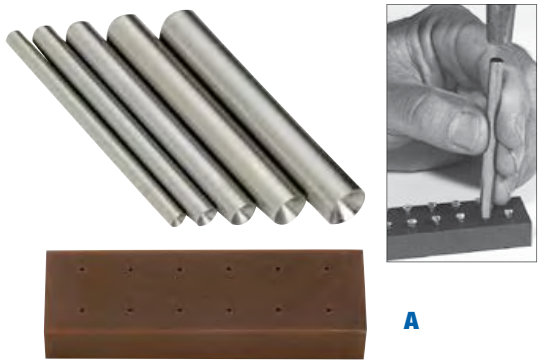
A. Final Touch Stone Setting System

Tightens all prongs with one tap to make stone setting incredibly fast. Stones never chip or crack because the force is evenly distributed on all prongs. Works on all round prong settings, including 4-prong, 6-prong, snap-in and hand-set. Easy to use: seat round stones level in setting (no need to tighten prongs), place earring posts into holes in the urethane base, hold punch straight on setting, and tap punch with hammer.

Includes:

- Five hardened steel punches in 2.0-3.4mm, 2.8-5.2mm, 3.2-6.6mm, 4.9-8.6mm and 5.6-10.0mm sizes
- Urethane base for holding posts

Description	Item#	Each
Final Touch Stone Setting System	**816-0096**	**$56.75**



A

B. Gem Setting Graver Outfit

Includes six shaped gravers for setting diamonds and other stones in modern settings, six comfortably shaped wooden handles for working ease and a model plate that shows various steps needed for project completion.

Description	Item#	Each
Gem Setting Graver Outfit	**166-8000**	**$68.40**

B

C. Round Tennis Bracelet Holder

This versatile bracelet holder saves time when setting stones. Eliminates messy shellac and firmly holds bracelets up to 7mm wide without marring or distorting. Lets you easily sets stones in prong, channel and pavé settings with the assurance that bracelets will always stay in place. Provides extra space for accommodating clasps. Made of sturdy aluminum. Hex wrench included. Measures 3½" diameter.

Description	Item#	Each
Round Tennis Bracelet Holder	**840-4205**	**$26.95**

C

D. Setter's Tube Holder Set

Set of seven spring-tempered three-jaw collets with wooden handle. Holds tubes from 1/32" to 1/4" in diameter while stone setting without causing them to collapse.

Description	Item#	Each
Setter's Tube Holder Set	**840-4225**	**$17.90**

D

E. Claw Setting Jig

Easily makes small or large four-, six- and eight-prong claw settings for 0.15-2 carat stones. The base unit holds the chosen jig, and the length of wire used is based upon the size of the stone to be set—larger, deeper stones require longer wires. Filing and soldering can be done with the setting still on the jig.

Description	Item#	Each
Claw Setting Jig	**816-1465**	**$24.50**

For GRS BenchMate
See page 568.

E

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A

B

C

A. Curved and Slim Burnisher

Curved and slim for hard-to-reach areas. Polished steel tip and wooden handle. Great for jewel settings. Blade measures 1¾" long. Made in USA.

Description	Item#	EACH Prices 1-2	3+
Curved and Slim Burnisher	**811-1880**	**$12.00**	**$10.80**

B, C Steel Burnishers

Polished steel tips with wooden handles. For use on bezels and larger surfaces. Measure approximately 6" overall length. Blades measure 2 long. Made in USA.

	Description	Item#	EACH Prices 1-2	3+
B.	Straight Burnisher	**811-2100**	**$12.00**	**$10.80**
C.	Curved Burnisher	**811-1900**	**12.00**	**10.80**

D

Shown actual size

D. Margin Roller Burnisher – 3/32" Shank

For burnishing over scratches in gold, making it possible to salvage many pieces without gold loss. Can also be used for burnishing over microporosity in castings. The 3/16" (5mm) head consists of five steel rollers that act as rotating mallets. Measures approximately 1¾" long with 3/32" shank for use with handpiece.

Description	Item#	EACH Prices 1-2	3+
Margin Roller Burnisher	**811-2150**	**$19.95**	**$17.96**

E
F
G
H
I

E-I Tungsten Carbide Burnishers and Scrapers

Feature highly polished tungsten carbide tips. Ideal for safe burnishing of platinum because tungsten carbide is noncontaminating. Also produce a brilliant finish on gold. Measure approximately 6⅜" overall length. Tips measure 1" long. Select between 2mm, 3mm or 4mm burnishers or 3mm and 5mm triangular cut scrapers. Scrapers are extremely sharp on all three sides and come to a sharp point. Also deal for cleanly removing flash and other casting defects from hard-to-reach areas. Measure approx. 6⅜" overall length, including handle. Tips measure approximately ⅞" long.

	Description	Item#	Each
E.	2mm Burnisher	**811-1849**	**$19.50**
F.	3mm Burnisher	**811-1850**	**19.50**
G.	4mm Burnisher	**811-1851**	**19.50**
H.	3mm Scraper	**816-0161**	**18.50**
I.	5mm Scraper	**816-0162**	**20.75**
	Burnisher/Scraper Set of 5 above	**811-2155**	**84.00**

Shown actual size

J

J. Busch® Carbide Starlight Polishers

Made of the finest carbide. Impart a unique high gloss on precious metals such as gold and platinum. Have 3/32" shanks.

Description	Item#	Each
Point	**122-7135**	**$34.78**
Barrel	**122-7133**	**47.66**
Cylinder	**122-7136**	**34.78**
Cone	**122-7134**	**47.60**
4-Piece Set (one each)	**122-7137**	**153.00**

Use high RPM for best results.

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A, B SonoCraft Burnishers – Ultrasonic Porosity Removers

SonoCraft units were designed especially for professional jewelers to remove porosity and other surface imperfections quickly and easily. But they are also amazing surface finishers with excellent reach into the tiniest areas: polishing under cathedral settings and cleaning up half round rails. You can polish and burnish areas that are almost impossible to reach by hand which traditionally had to be done with a magnetic tumbler. Both units include power pack, lightweight handpiece, on/off foot switch, wrenches and instructions.

Select between two powerful units:

The **ST-50** comes with one burnishing tip and works on softer metals such as gold and silver. It operates in a continuous mode with a constant fast impact governed by a Variable Rheostat dial. Used for burnishing and polishing.

Our **ST-60** includes five tips and works on the softer metals as well as hard metals such as platinum. A very versatile machine, the ST-60 has four ultrasonic modes:

Single Hit Mode: Tightens beads on to stones with minimal or no touchup needed.

Intermittent Mode (Slow): Slowly repeating impacts for light engraving.

Intermittent Mode (Rapid): Rapidly repeating impacts for engraving.

Continuous Mode: Constant fast impact for burnishing and polishing.

Benefits:

- Advanced ultrasonic technology drastically reduces finishing time for increased productivity.
- Automatic frequency adjustment provides optimal efficiency for excellent finishing results.
- High output power handles all kinds of metals with ease.

Specifications:	**ST-50**	**ST-60**
Works on	Gold, Silver and other soft metals	Gold, Silver, Platinum and other hard metals
Max. Power Output	30 Watts	40 Watts
Operating Frequency	24kHz	25kHz
Power Consumption	120VA	120VA
Output Adjustment	Continuously variable	Continuously variable
Handpiece Weight	7 oz.	4.5 oz. (without cord)
Electrical	110V or 220V, 50/60Hz	110V or 220V, 50/60Hz
Power Pack Dimensions	6⅞" W x 6⅞" D x 3 3/16" H	5¾" W x 7¼" D x 5" H
Ship. Weight	5.4 lbs.	6.25 lbs.

Both units includes power pack, lightweight handpiece, on/off foot switch, wrench and instructions. ST-50 includes Carbide Tip only. ST-60 includes all 5 tips.

5 tips included with the ST-60

	Description	Item#	Each
A.	SonoCraft III Ultrasonic ST-50, 110V	**510-0880**	**$1,990.00**
	SonoCraft III Ultrasonic ST-50, 220V	**510-0881**	**1,990.00**
B.	SonoCraft Ultrasonic ST-60, 110V	**510-0885**	**3,950.00**
	SonoCraft Ultrasonic ST-60, 220V	**510-0886**	**3,950.00**
	ST-60 Tip, V-shape Chisel, 60°	510-0887	130.00
	ST-60 V-shape chisel, 90°	510-0888	130.00
	ST-60 Tip, Flat Graver	510-0889	93.00
	ST-60 Tip, Round Graver	510-0890	125.00
	ST-60 Tip, Burnishing Tool	510-0891	125.00
	ST-50 Carbide Tip	510-0882	68.00

C. Setting Burnisher Set

Set of 18 setting closers, or burnishers, ranging in size from ½ point to 1.75 carats. For burnishing tubes over stones. Includes heavy-duty handle and attractive hardwood box. Made in Europe.

Description	Item#	Each
Setting Burnisher Set	**811-2165**	**$159.00**

C

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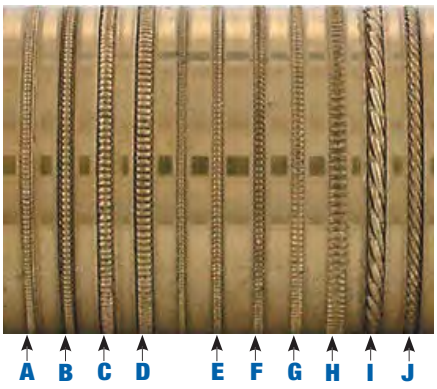
Samples of patterns



A-J Large Millgrain Wheels

Create decorative borders around edges of rings or bracelets. To use, mount ring on lathe, use turning tool to cut flat shoulder into each ring edge, and bring wheel onto shoulder. Wheels measure 6mm dia. on ⅛" sq. x 2½"L steel shanks. Male wheels have raised beads.

	Description	Approx. Design Width (mm)	Item#	Each
A.	Female 8	0.65	**820-5000**	**$65.00**
B.	Female 10	0.85	**820-5002**	**65.00**
C.	Female 12	1.05	**820-5004**	**65.00**
D.	Female 14	1.20	**820-5006**	**65.00**
E.	Male 8	0.65	**820-5008**	**65.00**
F.	Male 10	0.85	**820-5010**	**65.00**
G.	Male 12	1.05	**820-5012**	**65.00**
H.	Male 14	1.20	**820-5013**	**65.00**
I.	Rope 1 (medium)	1.25	**820-5014**	**65.00**
J.	Rope 2 (small)	0.95	**820-5016**	**65.00**

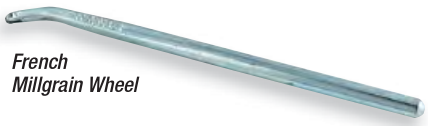
For use with Millgrain Machine p. 494

Large Millgrain Wheel

For GRS Setting Machines see page 568.

K-L French Millgrain Wheels

Cup-shaped wheels with equally spaced depressions for making uniform beaded imprints on jewelry. Mounted on steel shafts. Can be used by hand or with GRS power engravers. Smallest is size 0.



French Millgrain Wheel

K

L

Size	Depression	Shank	Item#	EACH Prices 1-9	10+
0	Oval	Round	**820-6050**	**$9.95**	**$8.29**
0	Oval	Square	**820-6060**	**10.85**	**9.04**
1	Oval	Square	**820-6100**	**10.85**	**9.04**
2	Oval	Square	**820-6150**	**10.85**	**9.04**
2	Oval	Round	**820-6175**	**10.85**	**9.04**
3	Oval	Square	**820-6200**	**10.85**	**9.04**
3	Oval	Round	**820-6230**	**10.85**	**9.04**
4	Oval	Square	**820-6250**	**10.85**	**9.04**
5	Oval	Square	**820-6300**	**10.85**	**9.04**
5R	Round	Square	**820-6325**	**9.95**	**8.29**
6	Oval	Square	**820-6350***	**9.95**	**8.29**
6R	Round	Square	**820-6375**	**10.85**	**9.04**
7	Oval	Square	**820-6400***	**10.85**	**9.04**
7R	Round	Square	**820-6425**	**10.85**	**9.04**
8	Oval	Square	**820-6450***	**10.85**	**9.04**
8R	Round	Square	**820-6455**	**10.85**	**9.04**
9	Oval	Square	**820-6500***	**10.85**	**9.04**
9	Oval	Round	**820-6510**	**10.85**	**9.04**
9R	Round	Square	**820-6505**	**10.85**	**9.04**
10	Oval	Square	**820-6550***	**10.85**	**9.04**
10	Oval	Round	**820-6560**	**10.85**	**9.04**
10R	Round	Square	**820-6551**	**10.85**	**9.04**
11	Oval	Square	**820-6552**	**10.85**	**9.04**
11	Oval	Round	**820-6570**	**10.85**	**9.04**
11R	Round	Square	**820-6555**	**10.85**	**9.04**
12	Oval	Square	**820-6650***	**10.85**	**9.04**
13	Oval	Square	**820-6651**	**10.85**	**9.04**
14	Oval	Square	**820-6660**	**10.85**	**9.04**
15	Oval	Square	**820-6662**	**10.85**	**9.04**
K.	7-Piece Set (asterisked wheels and holder #840-4350)		**820-6655**	**56.95**	-
L.	Millgrain Wheel Holder		**840-4350**	**9.90**	-

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A, B French Beading Tools

Used to form beads for holding diamonds, half-pearls and other stones in mountings. Have 2.6mm shanks.

	Size	Item#	3pc	EACH Prices 3-9	12-141	144+
A.	#2	810-1402		$1.85	$1.57	$1.30
	#4	810-1404		1.85	1.57	1.30
	#6	810-1406		1.85	1.57	1.30
	#7	810-1407		1.85	1.57	1.30
	#8	810-1408		1.85	1.57	1.30
	#9	810-1409		1.95	1.66	1.37
	#10	810-1410		1.95	1.66	1.37
	#11	810-1411		1.85	1.57	1.30
	#12	810-1412		1.95	1.66	1.37
	#13	810-1413		1.85	1.57	1.30
	#14	810-1414		1.85	1.57	1.30
	#16	810-1416		1.85	1.57	1.30

	Set with Wood Handle	Item#	EACH Prices 1-2	3+
B.	12-Piece Set (one each of above)	810-1400	$25.85	$21.97

A

B

C-E Swiss Beading Tools

Made of fine hardened tool steel with precise concave tips to form smooth beads and make well-defined, consistent size graduations. Have 2.6mm shanks. Measure 2⅜" long.

	Size	Dia. (mm)	Item#	3pc	EACH Prices 3-9	12+	Item#	Pkg. of 100
C.	#0	0.25	810-1252		$1.15	$0.92	810-1300	$67.00
	#1	0.30	810-1254		1.15	0.92	810-1301	67.00
	#2	0.35	810-1256		1.15	0.92	810-1302	67.00
	#3	0.40	810-1258		1.15	0.92	810-1303	67.00
	#4	0.45	810-1260		1.15	0.92	810-1304	67.00
	#5	0.50	810-1262		1.15	0.92	810-1305	67.00
	#6	0.55	810-1264		1.15	0.92	810-1306	67.00
	#7	0.60	810-1266		1.15	0.92	810-1307	67.00
	#8	0.65	810-1268		1.15	0.92	810-1308	67.00
	#9	0.70	810-1270		1.15	0.92	810-1309	67.00
	#10	0.75	810-1272		1.15	0.92	810-1310	67.00
	#11	0.80	810-1274		1.15	0.92	810-1311	67.00
	#12	0.85	810-1276		1.15	0.92	810-1312	67.00
	#13	0.90	810-1278		1.15	0.92	810-1313	67.00
	#14	0.95	810-1280		1.15	0.92	810-1314	67.00
	#15	1.00	810-1282		1.15	0.92	810-1315	67.00
	#16	1.05	810-1284		1.15	0.92	810-1316	67.00
	#17	1.10	810-1286		1.15	0.92	810-1317	67.00
	#18	1.15	810-1288		1.15	0.92	810-1318	67.00
	#19	1.20	810-1290		1.15	0.92	810-1319	67.00
	#20	1.25	810-1292		1.15	0.92	810-1320	67.00
	#21	1.30	810-1294		1.15	0.92	810-1321	67.00
	#22	1.35	810-1296		1.15	0.92	810-1322	67.00

	Sets with Wood Handle	Item#	EACH Prices 1-2	3+
D.	12-Piece Set (sizes 5–16 listed above)	810-1250	$20.80	$17.68
E.	23-Piece Set (one each of above)	810-1298	25.95	22.06

C

D

E

F-H Beading Tool Accessories

Hardened, tempered and polished steel plates for sharpening or reshaping worn beading tools. Comfortable tool holder sold in package of 3.

	Description	Item#	Each
F.	12-Bead Plate	810-1450	$27.50
G.	40-Bead Plate	810-1500	79.00
H.	Beading Tool Holders, pkg. of 3	816-3095	5.75

F

G

H

3pc *Three-piece minimum; please order in multiples of three.*

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A

A. Millgrain Machine

Cold-forms designs on rings without stripping away any precious metal. Use with any of our Large Millgrain Wheels (see p. 492). Features contoured handle and precision spindle for easy rotation and four mounting holes in base for bolting to your workbench. Includes 10 collets for ring sizes 2–13, millgrain wheel and Allen key. Weighs 24lbs.

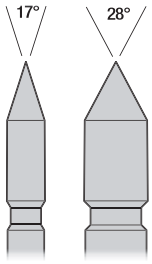
	Description	Item#	Each
A.	Millgrain Machine	**820-6700**	**$550.00**
	Replacement Collet Set, 10 pc.	820-6705	15.00

B
C
D

B-D Bezel Mandrels

Although primarily used to form bezels, these mandrels are also used to shape decorative ornaments and to make chain links. Made of hardened and polished steel. Measure 11" overall length. Mandrel portions measure approximately 8" long with ½"-⅛" taper.

	Description	Item#	EACH Prices 1-2	3+
B.	Square Mandrel	**841-1300**	**$27.60**	**$24.84**
C.	Oval Mandrel	**841-1305**	**25.60**	**23.04**
D.	Round Mandrel	**841-1310**	**25.60**	**23.04**



E

E. Bezel Block and Punch Sets

Each includes precision-machined block and punch. Used to punch and form bezels from flat stock. Made of hardened, tempered, polished steel. Made in Italy.

	Description	Holes	Punch Angle	Item#	Each
E.	Round Set	20 (5–20mm)	17°	**815-2050**	**$105.00**
	Round Set	20 (5–20mm)	28°	**815-2055**	**105.00**
	Oval Set	11 (4–14mm)	17°	**815-2060**	**179.00**
	Heart Set	11 (5–15mm)	17°	**815-3000**	**349.00**

F

F. High-Speed 17° Bezel Cone Bur – 3/32" Shank

Use to drill an angled hole that matches the 17° angle on many settings, most notably bezel settings. Solves the problem of inserting a standard tapered prong or bezel setting into a standard shank.

Size	Dia. (mm)	Item#	EACH Prices 1-5	6+
30	8.00	**123-2301**	**$6.98**	**$5.86**

G

G. Earring Post Protectors

These silicone rubber sleeves protect ear posts when setting, tumbling or plating. Sold by the gross (144 each).

Description	Item#	GROSS Prices 1-49	50+
Earring Post Protectors	**852-1150**	**$3.49**	**$2.62**

H

I

H, I Beeswax

A very pliable wax often used to pick up stones when setting. Also can be used as a lubricant for burs and saws and when wire drawing. Rubbed on a surface, beeswax leaves a film on which designs can be marked.

	Description	Item#	Each
H.	Beeswax, 2 oz. cake	**816-2405**	**$3.75**
I.	Beeswax, 1 oz. tube	**816-2450**	**3.00**
	Beeswax, ½ lb. bar	**816-2401**	**12.00**

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RinGenie

Engraving and Setting Tool

Right out of the box, the RinGenie has everything you need to make quick and easy work of layout, engraving, inlaying, stone setting, bright cutting, bead setting and any other task a jeweler or engraver may encounter. Unlike other engraver's blocks, its 360 degree rotating spindle makes it easy to move freely or at finely set intervals providing amazing versatility and unparalleled precision. Plus its numerous mounting options make it easy to approach your work at any angle. Hand and power engravers work equally well with the RinGenie.

No matter what your project demands, the RinGenie is engineered to boost speed and accuracy at every phase of the process.

Work faster, work smarter. Be more productive and more creative with the RinGenie.

A

"The RinGenie doesn't replace any human skills it only aids in helping take the ones that a craftsman has to a higher level by its user friendly way of helping to maneuver the piece one is working on."

Robert N. Vertel, owner of Dokan Jewelry Designs LLC, MI

View instructional video at www.gesswein.com.

Features/Benefits:

- Made of aircraft quality aluminum, hard coat anodized for wear resistance, with stainless steel spindles.
- Body measures 4 1/16" wide; 5 3/8" wide including outside adjustment knobs.
- The RinGenie is a money making time saver.
- Layout with precision and speed.
- Accuracy in drilling and milling.
- Precise channel cutting.
- Fine incremental settings with 360 degree rotation.
- A perfect complement to hand or power engravers.
- Easy spindle locking thumb screw
- Use with metal or wax.
- Optional adapter for your BenchMate (see fig. B)
- Optional Side Helper for engraving/setting on sides of rings. (see fig. C)

B BenchMate Adaptor

C Optional Side Helper

Includes:

- Drill/Mill/Layout Assembly Tool
- Scriber Assembly
- 3/32" Diameter Hardened Drill Bushing
- 1 Alignment Plate
- 2 Tightening Rods
- 1 Side Pointer
- 1 Drag Adjustment Screw
- 8 Plastic Collets in sizes 5, 6, 7, 8, 9, 10, 11 and 12
- 16 Aluminum Collets in sizes 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12 and 12.5
- 1 Custom Fitted Wood Case
- Instructional DVD

	Description	Item#	Each
A.	RinGenie	**816-1490**	**$695.00**
B.	Optional BenchMate Adapter	**816-1491**	**74.95**
C.	Optional Side Helper	**816-1492**	**84.95**

For Microscopes See pp. 348-349.

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A

B

A. Attack Epoxy Solvent

Dissolves cured epoxy and polyester resins without affecting surrounding material. Excellent for separating misaligned bonded items. For use on metal, glass, wood and more. Not recommended for use on imitation pearls. Sold in 8 fl. oz. cans.

Description		Item#	EACH Prices 1-2	3+
Attack Epoxy Solvent, 8 fl. oz can	Ⓗ	**821-2800**	**$12.50**	**$11.25**

B. Epoxy 220

Has slower setting time for production bonding of gem materials to metal findings. Provides ultimate tensile strength and resists thermal shock. Thickens in 1 hour and hardens in 8 hours without heat. Hardens in 30 minutes under heat lamp. Color: clear amber.

Description	Item#	EACH Prices 1-2	3+
1 fl. oz. (one each ½ fl. oz. resin and hardener)	**821-2850**	**$4.50**	**$3.96**

C

D

C, D Epoxy 330

A perfectly clear, fast-curing two-part adhesive. When equal parts are mixed, it thickens in 15 minutes and hardens in 2 hours without heat. Hardens in 10 minutes under heat lamp.

	Description		Item#	EACH Prices 1-2	3+
C.	1 fl. oz. (one each ½ fl. oz. resin and hardener)	Ⓗ	**821-2900**	**$3.95**	**$3.48**
D.	8 fl. oz. (one each 4 fl. oz. resin and hardener)	Ⓗ	**821-2910**	**19.95**	**17.56**

E F

E, F Devcon® 5-Minute Epoxy – Clear

High-strength two-part epoxy with a handling time of 5 minutes. Sets in 8-10 minutes. Achieves full bond strength in 1 hour. Works on metal, wood, glass, stones, crystal and ceramic. Clear, nonshrink formula—great for jewelry. Resistant to most chemicals. Available in traditional Dual Pak (one tube each of resin and hardener) with mixing instructions. Also available in convenient Dev-Tube applicator, which dispenses equal portions of resin and hardener with one easy push of the plunger—a quick mix and it's ready to use.

	Description	Qty.	Item#	EACH Prices 1-2	3+
E.	Dual Pak, ½ oz. tubes	1 oz. (Net. Wt.)	**811-2650**	**$4.85**	**$4.61**
F.	Dev-Tube	.85 fl. oz.	**811-2651**	**5.40**	**5.13**
	Dev-Tube, box of 6	5.1 fl. oz.	**811-2657**	**29.50**	**-**

G H

G, H Devcon® 2-Ton Epoxy – Clear

Industrial-strength two-part epoxy designated for heavier items that require an extra-high-strength bond. Works on metal, stones, ceramic, crystal, china and wood. Waterproof and resistant to most chemicals. Strong enough to fill gaps. Sets in 30 minutes. Cures in 8-12 hours to a clear transparent finish. Excellent for jewelry. Available in traditional Dual Pak (one tube each of resin and hardener) with mixing instructions. Also available in convenient Dev-Tube applicator, which dispenses equal portions of resin and hardener with one easy push of the plunger—a quick mix and it's ready to use.

	Description	Qty.	Color	Item#	EACH Prices 1-2	3+
G.	Dual Pak, ½ oz. tubes	1 oz. (Net. Wt.)	Clear	**811-2652**	**$4.25**	**$4.04**
H.	Dev-Tube	.85 fl. oz.	Clear	**811-2653**	**4.85**	**4.61**
	Dev-Tube, box of 6	5.1 fl. oz.	Clear	**811-2658**	**26.50**	**-**

I J

I, J Devcon® Plastic Steel Epoxy – Dual Pak - dark gray, Dev-Tube - black

Steel-filled heavy-duty epoxy for forming a protective backing on turquoise and other stones. Offers extremely high bond strength. Can be used to fill holes and gaps. Sets in 2 hours. Reaches full bond strength in 24 hours. Hardens to a rigid metallic mass. Sandable, chemical-resistant and waterproof. Color: Dual Pak - dark gray, Dev-Tube - black.

	Description	Qty.	Item#	EACH Prices 1-2	3+
I.	Dual Pak - dark gray	2 oz. (Net. Wt.)	**811-2655**	**$4.95**	**$4.70**
J.	Dev-Tube - black	.85 fl. oz.	**811-2656**	**5.75**	**5.46**

Ⓗ *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

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A-E Regular and Qwik-Dry Super Glues

Transparent, high-strength, quick-setting adhesives. No mixing required. Excellent for stone and pearl setting and jewelry repair. Regular Super Glue dries in 45-60 seconds. Qwik-Dry sets up in just 10-20 seconds. Maximum strength is reached after 12 hours.

Description	Item#	5pc	EACH Prices 5	10+
A. Regular, 2g tube	811-2300		$2.25	$2.14
B. Qwik-Dry, 2g tube	811-2310		2.25	2.14

5pc *Five-piece minimum; please order in multiples of five.*

Description	Item#	EACH Prices 1-4	5-9	10+
C. Regular, 2g pen	811-2305	$2.60	$2.47	$2.21
D. Regular, 20g bottle	811-2400	8.80	8.36	7.48
E. Qwik-Dry, 20g bottle	811-2312	8.80	8.36	7.48

F. Mascot Instant Adhesive Gel

This high-performance, extended-range cyanoacrylate adhesive bonds metal, plastic, rubber, ceramic and glass in just seconds! Sets in about 30 seconds, depending on the objects being joined. Spreads easily and is perfect for close-fitting surfaces. No-drip formula makes it ideal for applying on vertical surfaces and filling gaps. Bonds colorless. Made in USA.

Description	Item#	EACH Prices 1-4	5-9	10+
Mascot Gel, 10 oz. (3g) tube	811-2415	$3.35	$3.02	$2.85

G. Crystal Cement

Provides a strong, durable bond between plastic or glass watch crystals and the bezel. Will not flake off or crack plastic. Sold in convenient ⅓ fl. oz. tubes with pinpoint applicator tip.

Description	Item#	EACH Prices 1-2	3+
Crystal Cement, ⅓ fl. oz tube	811-2540	$5.35	$4.82

H, I Syringe Dispensers

Plastic syringes with 18-gauge stainless steel needle for pinpoint delivery of adhesive or paste solder to the exact place you want. Plunger works smoothly and slides evenly to prevent accidental flooding and sputtering. Constructed of polyethylene and polypropylene. Use with Epoxy 330, Devcon Epoxies, and similar adhesives. Available in sizes: 5cc and 10cc. Each syringe includes tip sheath and cover.

Description	Item#	EACH Prices 1-3	4+
H. 5cc Dispenser, pkg. of 6	811-2450	$18.95	$15.16
I. 10cc Dispenser, pkg. of 6	811-2451	23.50	18.80

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A

A. Solder Pastes – Cadmium/indium-free!

Excellent for soldering fine chains and intricate jewelry items where precise application of solder is critical. Alloy and flux are premixed in paste form and packaged in convenient dispensing syringes. Alloy will not settle to the bottom of the syringe tube. Syringes eliminate waste and improve the appearance of the joint area. Gold solders are plumb. Each dwt. of paste contains 55% metal and 45% binder per 1cc syringe.

Description	Melting Point °F (°C)	Flow Point °F (°C)	Item#	Dwt
10K Yellow Easy	1,290 (699)	1,320 (716)	**831-1007**	**$34.12**
14K Yellow Hard	1,400 (760)	1,440 (782)	**831-1002**	**45.09**
14K Yellow Medium	1,330 (721)	1,390 (754)	**831-1000**	**45.09**
14K Yellow Easy	1,265 (685)	1,285 (696)	**831-1001**	**45.09**
18K Yellow Easy	1,300 (704)	1,360 (738)	**831-1008**	**55.80**
14K White Hard	1,335 (724)	1,445 (785)	**831-1006**	**45.09**
14K White Easy	1,290 (699)	1,295 (702)	**831-1005**	**45.09**
Silver Easy	1,125 (607)	1,205 (652)	**831-1010**	**28.95**
Silver Repair (less silver content)	425 (218)	473 (245)	**831-1030**	**23.10**

Prices subject to change with market prices.

B

B. Noble Easy-Flow Sheet Solder – For Repair Work

This solder is of lower gold content than the quality of gold for which its use is recommended. Within each color there are variations in the exact tone in order to match the karat of the piece to be soldered. All flow easily and uniformly and provide a joint that is as strong and permanent as the metal itself. Sold per dwt. Caution: Contains cadmium; fumes are hazardous, use NIOSH approved respirator and fume hood such as our Solderpure (see p. 407).

Description	Approx. Karat	Melting Point °F (°C)	Flow Point °F (°C)	Item#	Dwt
Yellow Low	1K	1,190 (643)	1,325 (718)	**830-1900**	**$5.90**
8K Yellow	4K	1,280 (693)	1,385 (752)	**830-1903**	**22.00**
10K Yellow	5K	1,205 (652)	1,320 (716)	**830-1906**	**37.25**
14K Yellow	9K	1,200 (649)	1,315 (713)	**830-1909**	**45.95**
18K Yellow	10K	1,360 (738)	1,450 (788)	**830-1912**	**65.00**
White Low	1K	1,190 (643)	1,325 (718)	**830-1921**	**5.90**
10K White	5K	1,205 (652)	1,320 (716)	**830-1924**	**37.25**
14K White	9K	1,200 (649)	1,315 (713)	**830-1927**	**45.95**
18K White	10K	1,360 (738)	1,450 (788)	**830-1930**	**65.00**

Prices subject to change with market prices.

C

C. Silver Sheet Solder

Available in three grades, Easy 65%, Medium 70%, and Hard 75% silver.

Description	Melting Point °F (°C)	Flow Point °F (°C)	1 Troy Oz.#	Pkg.	¼ Troy Oz.#	Pkg.
Easy	1,240 (671)	1,325 (718)	**830-2050**	**$28.57**	**830-2049**	**$7.14**
Medium	1,275 (690)	1,360 (738)	**830-2100**	**30.20**	**830-2099**	**7.55**
Hard	1,365 (740)	1,450 (788)	**830-2150**	**32.82**	**830-2149**	**8.20**

Prices subject to change with market prices.

D

D. Palladium Sheet Solder

950 palladium jewelry is a rapidly growing trend, and palladium solders are ideal color matches for it. 950 Hard is 95% palladium and 5% patented solder alloy; it's plumb and a perfect color match for your 950 palladium jewelry. Sold in 1 dwt sheets.

Description	Melting Point °F (°C)	Flow Point °F (°C)	Item#	Each
950 Plumb	2,372 to 2,912 (1,350 to 1600)	2,642 (1450)	**830-1960**	**$77.00**

E

E. Silver Solder Wire

Round 20-gauge (0.032" dia.) silver solder wire. Cadmium-free. Sold in ½ oz. packages.

Description	Silver %	Melting Point °F (°C)	Flow Point °F (°C)	Item#	Pkg.
Extra-Easy	56	1,145 (618)	1,205 (652)	**830-2151**	**$13.35**
Easy	65	1,240 (671)	1,325 (718)	**830-2152**	**15.34**
Medium	70	1,275 (690)	1,360 (738)	**830-2153**	**15.53**
Hard	75	1,365 (740)	1,450 (788)	**830-2154**	**16.41**

Prices subject to change with market prices.

F

F. Solder Cutting Pliers

These special pliers can be used to consistently cut both sheet and wire solder. Sheet is cut in 1/16" (1.6 mm) squares and wire, up to 18-gauge (1.02 mm), in 1/16" lengths. Cut is consistent time after time, Measure 5½" overall length with plastic comfort grips.

Description	Item#	Each
Solder Cutting Pliers	**180-0279**	**$16.10**

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A-C Gesswein® Plumb Solders – Cadmium/indium-free!

Manufactured for Gesswein under strict quality guidelines so that composition, temperature and color are consistent and uniform from lot to lot. Contains no cadmium, no indium. Available in sheet, chips and paste. Sheet is sold by the dwt. Chips measure 1 x 1mm and are packaged 1 dwt per vial. Each dwt. of paste contains 55% metal and 45% binder per 1cc syringe.

Description	Melting Point °F (°C)	Flow Point °F (°C)	A. Sheet Item#	A. Sheet Dwt	B. Chips Item#	B. Chips Dwt	C. Paste Item#	C. Paste Dwt
Yellow 18KY Hard	1,440 (782)	1,530 (832)	**830-2172**	**$88.55**	**831-1062**	**$89.11**	**831-1042**	**$55.93**
Yellow 18KY Medium	1,350 (732)	1,435 (779)	**830-2171**	**88.55**	**831-1061**	**89.11**	**831-1041**	**55.93**
Yellow 18KY Soft	1,300 (704)	1,360 (738)	**830-2170**	**88.55**	**831-1060**	**89.11**	**831-1040**	**55.93**
Yellow 14KY X-Hard	1,420 (771)	1,555 (846)	**830-2176**	**69.06**	**831-1066**	**69.62**	**831-1046**	**45.29**
Yellow 14KY Hard	1,400 (760)	1,440 (782)	**830-2175**	**69.06**	**831-1065**	**69.62**	**831-1045**	**45.29**
Yellow 14KY Medium	1,330 (721)	1,390 (755)	**830-2174**	**69.06**	**831-1064**	**69.62**	**831-1044**	**45.29**
Yellow 14KY Soft	1,265 (685)	1,285 (696)	**830-2173**	**69.06**	**831-1063**	**69.62**	**831-1043**	**45.29**
White 18KW Soft	1,575 (857)	1,580 (860)	**830-2180**	**88.55**	**831-1070**	**89.11**	**831-1050**	**55.93**
White 14KW Hard	1,335 (724)	1,445 (785)	**830-2182**	**69.06**	**831-1071**	**69.62**	**831-1051**	**45.29**
White 14KW Soft	1,290 (699)	1,295 (702)	**830-2181**	**69.06**	**831-1072**	**69.62**	**831-1052**	**45.29**

Prices subject to change with market prices.

D. Platinum Plumb Solder

Contain 90-95% platinum for a perfect color match and no visible seams. Solves many of the problems associated with traditional platinum solders such as porosity, poor color and a simple lack of platinum. Sold in 1 dwt sheet.

Description	Flow Point °F (°C)	Item#	Dwt
Easy	1,400 (760°)	**830-1950**	**$185.00**

Prices subject to change with market prices.

E. Platinum Solders

1200 Easy contains 0% platinum and is basically a repair solder made of palladium/white gold. 1400 Medium contains 5% platinum with the balance made of palladium/white gold. Normally used in assembling findings. 1700 Hard contains 25% platinum with the balance composed of palladium/white gold. Used for ring sizing and other jobs where joints will be visible.

Description	Flow Point °F (°C)	Item#	Dwt
1700 Hard	2,910 (1,600)	**830-2162**	**$96.88**
1400 Medium	2,660 (1,460)	**830-2161**	**108.82**
1200 Easy	2,190 (1,200)	**830-2160**	**87.06**

Prices subject to change with market prices.

F. Platinum Solder Paste

Paste solder is ideal for soldering chain and intricate jewelry items where precise application of solder is critical. Now paste solder is available for platinum! Use 1000 for hidden joints (color is a bit too dark to use on visible joints). Use 1300 for production and for a good color match on joints that will be visible in the finished product.

Description	Flow Point °F (°C)	Item#	Each
Platinum Solder Paste 1000, 1 dwt syringe	2,010 (1,110)	**831-1031**	**$35.00**
Platinum Solder Paste 1300, 1 dwt syringe	2,280 (1,250)	**831-1032**	**122.50**

Prices subject to change with market prices.

G. Yellow Ochre

Mix with water or alcohol to create a paste that may be brushed onto a workpiece to prevent solder from flowing where you don't want it to. Helps to protect previously soldered areas, moving parts of a catch, etc. Net Wt. ½ lb.

Description	Item#	Each
Yellow Ochre	**821-2750**	**$10.85**

H. Cordless Rechargeable Soldering Iron Set

Easily solder in the tightest places with no restricting cord. Iron weighs less than 5 oz and measures 8¼" long (with tip installed). Includes a built-in light allowing visibility in hard to reach areas and dark corners. Will solder up to 125 joints before recharging. Partially recharges in 1-2 hours, fully recharges in 3 to 4 hours. Comes complete with soldering iron, charging stand, battery, one fine and one heavy-duty tip and instructions. 110V, UL listed.

Description	Item#	Each
Quick-Charge Soldering Iron Set	**816-1920**	**$71.85**

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A

B

C

D

E

F

G

H

A. Tix® Solder

Considered to be one of the "hardest" soft solders available. Melts at 275°F and has a holding power of 4,300 lbs. per square inch. Adheres to all ordinary solderable materials and may be used with a soldering gun or torch. Stays white and does not tarnish. Package of 20 rods (3" length, 19-gauge).

Description	Item#	Each
Tix Solder, 20 rods	**830-2000**	**$16.65**

B. Tix® Flux

A noncorrosive liquid flux that works with any soft solder. Harmless to skin and clothing. Washes off with water, even when dry. ½ oz.

Description	Item#	Each
Tix Flux, ½ oz.	**830-2340**	**$5.10**

C. Tix® Anti-Flux

Liquid that brushes on to prevent solder from flowing to unwanted areas. Can be used for hard or soft soldering. ½ oz.

Description	Item#	Each
Tix Anti-Flux, ½ oz.	**830-2345**	**$5.10**

D. Stay Bright Soldering Set

Cadmium-free, nontoxic silver bearing solder with a melting point of 430°F. May be used with soldering gun or torch. Includes ½ oz. of solder and ½ fluid oz. Stay Clean Flux.

Description		Item#	Each
D. Stay Bright Soldering Set	$	**830-2300**	**$29.50**
Stay Clean Flux 4 oz. refill	$	**830-2350**	**12.10**

E. Soft Soldering Flux

For use with solders with melting points under 450°F. Will not flame.

Description		Item#	Each
4 oz.	$	**830-4050**	**$10.15**
1 pint	$	**830-4100**	**13.70**
E. 1 quart	$	**830-4150**	**21.90**

F. Pinpoint Dispenser

This handy plastic squeeze dispenser has a needle-point applicator for precise application of flux. No more mess—eliminates dried up flux brushes and dripping flux. An excellent applicator for applying flux to small areas where a flux brush will usually cause a mess; ideal for soldering earring posts, building up prongs, sizing rings and making many similar small repairs. 2 oz. capacity.

Description	Item#	Each
F. Pinpoint Dispenser	**830-4520**	**$4.79**
Pinpoint Dispenser w/16 oz. Anti-Oxidizing Flux (see p. 501)	**830-4515**	**15.95**

G. Dispenser Bottle with Pump

Plastic bottle holds flux, solvents or other liquids. Special stainless steel lid allows pumping of solution into shallow well on top of bottle. One-way valve keeps solution in well, prevents contamination and eliminates odors. Ideal for dispensing solutions that would otherwise evaporate. 4 oz. capacity.

Description	Item#	Each
Dispenser Bottle with Pump	**830-4525**	**$23.95**

H. Superior Flux #6

This paste flux for silver brazing and soldering stays exactly where you want it and helps hold solder in place. Contains no potassium bifluoride and will not release boron trifluoride gases during brazing. Gentle on metals. Easier on the hands than regular silver fluxes. Conforms to AMS 3410, AWS A5.31-91 and Type FB3A. Temp. range: 900-1600°F (485-870°C).

Description	Item#	Each
4 oz. Jar	**830-4200**	**$9.95**
H. 8 oz. Jar	**830-4201**	**16.65**

$ UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.

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A-D Gesswein® Hard Soldering Flux

Yellowish-green self-pickling flux for brazing and annealing gold, silver, platinum and other metals with high melting points. Holds solder chips in place. Preserves color and temper of metal. Temp. range: 1,100-1,600°F.

Size	A. 4 oz.	B. 1 pint	C. 1 quart	D. 1 gallon
Item#	830-4250	830-4300	830-4350	830-4400
EACH Price	$4.50	$6.50	$10.95	$29.95

E-G Handy® Flux

A white paste flux used for hard soldering of silver, gold, platinum, copper, nickel and other nonferrous metals. Apply with borax brush. Holds solder chips in place for easier soldering. Withstands prolonged heating without breaking down. Temp. range: 1,100-1,500°F.

Size		Item#	EACH Prices 1-2	3+
E. 7 oz.	(H)	830-4465	$6.50	-
F. 1 lb.	(H)	830-4470	10.15	$9.14
G. 5 lbs.	(H)	830-4475	33.95	30.56

H. Borax

Specially prepared for making flux for jewelry soldering. Dissolves easily to make a paste. Inhibits the formation of oxides on metal surfaces and allows solder to flow more easily. Helps prolong the life of melting crucibles. Borax has pH of 6-7. More alkaline than boric acid (pH 3-4).

Size	8 oz. Powder	5 lbs. Powder	50 lbs. Powder
Item#	811-0700	811-0701	811-0702
EACH Price	$6.50	$23.95	$185.00

I-L Gesswein® Anti-Oxidizing Flux

Completely protects the finish of the piece being soldered from firescale, reducing the need for time-consuming pickling, stripping and, in some cases, sanding and filing. Repolishing becomes easy after soldering. Prevents discoloration and oxidation of all metals that contain copper. Especially recommended for soldering silver. Makes hard soldering tasks easier than ever before. Nonhazardous and nontoxic. Temp. range: 1,100-1,500°F.

Size	Item#	EACH Prices 1-2	3+
I. 4 oz. spray bottle	830-4500	$5.95	$5.65
J. 16 oz.	830-4505	14.50	13.78
K. 1 gal.	830-4510	74.00	70.30
L. 16 oz. with pinpoint dispenser	830-4515	15.95	-

M. Gesswein® Rectifying Solution

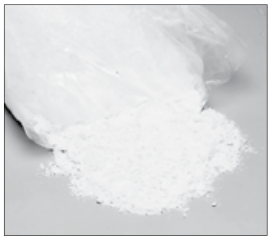
Alcohol-based flux for soldering and annealing. Inhibits firescale. Dip part into Rectifying Solution, set on soldering block and ignite. Alcohol will burn off and leave white borax residue. Part is now ready to be soldered or annealed. Temp. range: 1,100-1,600°F.

Size		Item#	EACH Prices 1-3	4+
1 quart	($)	830-4551	$20.95	$16.76

N. Boric Acid Powder

Technical grade. Dissolve in Denatured Alcohol in our Glass Alcohol Cup (below) to make soldering flux. Boric acid has pH of 3-4. More acidic than borax (pH 6-7).

Size	Item#	Each
1 lb.	830-4569	$7.65
5 lbs.	830-4570	16.65
25 lbs.	830-4572	73.25



O. Glass Alcohol Cup

For alcohol, solvents, flux or other solutions. Cover fits tightly to protect against evaporation or contamination. Cut glass container. Measures 2⅞" dia. x 1⅞"H, capacity 1½ oz.

Description	Item#	Each
Glass Alcohol Cup	830-2320	$15.95

(H) *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

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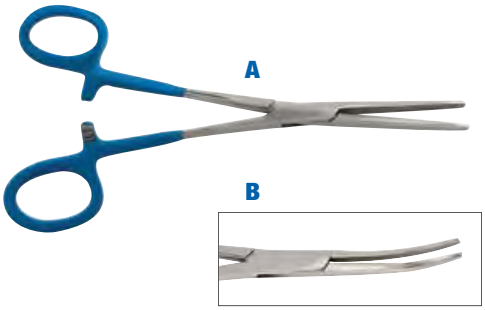

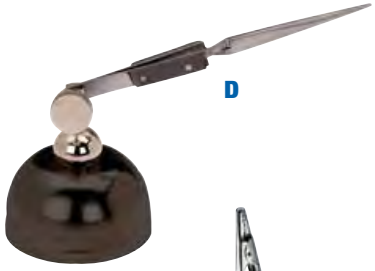

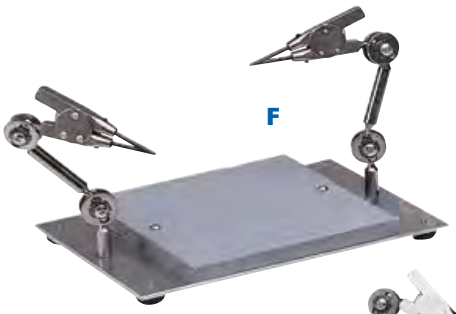

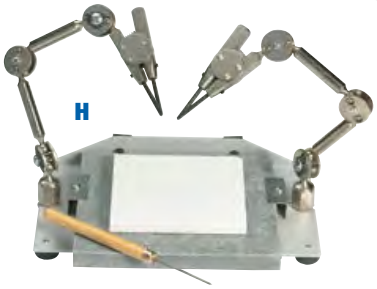

A, B Hemostats

Precision tools ideal for holding small items for soldering. Feature box-joint construction, serrated pointed jaws and heat-resistant two-position self-locking handles. Available in two styles: straight and curved. Made of highly polished stainless steel. Measure 6" long.

Description	Item#	EACH Prices 1-2	3+
A. Straight	**181-5005**	**$6.50**	**$5.85**
B. Curved	**181-5000**	**6.50**	**5.85**

C. Third Hand

Cross-locking tweezers, 6½" long, mounted on heavy, nontipping round base. Base's ball joint attachment permits positioning of work at any angle. Handy for positioning pieces to be joined by solder or adhesive, freeing hands from work. Base may vary.

Description	Item#	EACH Prices 1-2	3+
Third Hand	**816-1800**	**$11.50**	**$10.93**
Replacement Tweezers	195-1400	2.95	2.66

D. Magnetic Third Hand

This remarkable third hand features incredibly flexible positioning and ease of use to speed up your soldering jobs. A strong magnet in the base holds the ball joint with attached tweezers. Twist and turn the ball joint to any position and it stays fixed *without slipping*—no screws or wing nuts to adjust. Base is the heaviest we've seen for secure positioning without tipping even when soldering heavy jewelry items. Holds up to 5 oz. at the end of the 6" self-locking insulated tweezers (included). Base measures 3" dia. x 3½"H. Net Wt. 2 lbs.

Description	Item#	Each
Single	**816-1820**	**$33.25**

E. Double Third Hand

Round weighted base with cross bar, two spring-loaded clips, and multiple ball joints for infinite positioning ability. Frees both hands for work. Other accessories such as cross-locking tweezers may be added to increase the versatility of this convenient holding tool. Base measures 3" dia. x ¾"H.

Description	Item#	Each
Double Third Hand	**816-1900**	**$19.95**

F, G GRS® Soldering Stations

Compact benchtop fixturing devices for handling all your soldering jobs. Available in two styles: short-arm features double-jointed arms with spring-loaded third hands, and deluxe features triple-jointed arms with spring-loaded third hands and rear tabs for mounting on GRS BenchMate (see p. 568). Have 6" x 6" nonasbestos soldering boards and metal frames with rubber feet. Made in USA.

Description	Item#	Each
F. Short-Arm Soldering Station	**816-1914**	**$89.95**
G. Deluxe Soldering Station	**816-1915**	**124.95**

H. Platinum Soldering Station

Platinum soldering must be carried out in an area separate from other metals or solders to prevent contamination of the platinum. Tweezers and solder picks must be made of a non contaminating material such as tungsten carbide. Our Platinum Soldering Station includes: GRS Deluxe Soldering Station (above), 2 pairs of GRS Tungsten Carbide Tweezers Tips (to replace tips in soldering station), 4" x 4" Wesgo Soldering Board (sits on top of GRS board) and Tungsten Solder Pick for worry-free platinum soldering.

Description	Item#	Each
Platinum Soldering Station	**816-1916**	**$185.00**

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A. Improved Adjustable Scraper

Hollow three-square double-ended blade measures 3½" long; extend length to fit the job. A simple adjustment knob on the knurled handle allows the blade to slip inside both for safety and for maintaining the tool edge when not in use. Handle has a highly polished finish and measures 3½" long. France.

Description	Item#	Each
Improved Adjustable Scraper	**816-0130**	**$41.75**

B. Bench Knife

An all-purpose bench knife for opening watch cases, scraping and cutting. Has 1¾" thick steel blade mounted in a hardwood handle. Measures 5¼" long.

Description	Item#	Each
Bench Knife	**260-3059**	**$3.80**

C, D Wood Handle Scrapers

High-quality, chrome alloy steel three-square blades are securely mounted in hardwood handles. Approx. overall length 6½".

	Description	Blade Length	Item#	Each
C.	Hollow-Blade Scraper	2½"	**816-0150**	**$8.95**
D.	Solid-Blade Scraper	3"	**816-0160**	**15.95**

E. Titanium Solder Pick

Features a Titanium rod to which solder cannot adhere and a nonconductive handle with hexagonal head so pick won't roll away when you put it down. For gold and silver—do not use on platinum. Measures 6⅜" long.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Titanium Solder Pick	**830-2212**	**$4.95**	**$4.70**	**$4.46**

F. Tungsten Solder Pick – Ideal for platinum.

For spreading molten solder and maneuvering it to just the place you want it. Solder will not adhere. Made of a special high melting point tungsten. Will not contaminate or discolor molten gold or silver solder. Wood will not heat up. Measures 6½" long.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Tungsten Solder Pick	**830-2210**	**$7.95**	**$7.16**	**$6.62**

G. Niobium Solder Pick – Ideal for platinum.

For high-temperature soldering jobs, our Niobium Solder Pick withstands temperatures up to 4,470°F. Noncontaminating for platinum soldering and welding. Can be bent to the desired angle without breaking. Wooden handle. Measures 6½" long.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Niobium Solder Pick	**830-2216**	**$6.45**	**$6.13**	**$5.81**

H. Solder Pick

Made with a special alloy, the point can be bent to any shape without breaking. Hardwood handle insulates. Metal ferrule. For gold and silver. Measures 6½" long.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Solder Pick	**830-2211**	**$2.45**	**$2.21**	**$2.04**

I. Titanium Soldering Picks

Feature long-lasting extra-fine titanium tips that collect exact amounts of solder for precise application. Grooved aluminum handles dissipate heat quickly to protect user. Hexagonal heads prevent rolling. Set consists of three colors to allow easy differentiation and help prevent metal contamination. Measure 6¼" long. For use with gold, silver and other metals; not for use with platinum.

Description	Item#	Each
Set of three	**830-2219**	**$8.50**

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A-C Ceramic Plastic Deflashing Tools

Each holds edge indefinitely and provides complete user safety.

These tools feature space-age ceramics that debur hard plastics effortlessly while eliminating the fear of cutting your hands or fingers in the process. Ideal for curved and complicated shapes. Excellent on ultra-hard resins that defy carbon steel tools. Can also be used on soft metals such as aluminum, copper and brass.

Available in 3 sizes: Large Disposable Deflasher (6 7/8" long with 1 1/2" long cutting edge) has matte cutter-type handles; Small Disposable Deflasher (5 1/4" long with 1" long cutting edge) has a fluted, nonroll design; Micro Deflashing Pen (5 7/8" long with 3/8" long cutting edge) has 2 jaw chuck for easy blade replacement.

	Description	Blade	Item#	Each
A.	Large Ceramic Deflasher	1 1/2"	**351-0295**	**$32.95**
B.	Small Ceramic Deflasher	1"	**351-0294**	**29.95**
C.	Micro Ceramic Deburring Pen	3/8"	**351-0001**	**29.95**
	Replacement Micro Blades—5-pack	3/8"	351-0002	29.95

D. Precision Deburring Tools

Double-ended tools with revolving hardened steel discs for deburring a variety of delicate parts. Feature knurled handles for secure grip. Sold individually and in a set with one of each with storage pouch. Made in Switzerland. Measure approx. 3 3/8" in length.

Tool#	Disc Diameter	Item#	Each
1	0.060" and 0.070"	**846-2039**	**$14.95**
2	0.082" and 0.092"	**846-2040**	**14.95**
3	0.106" and 0.116"	**846-2041**	**14.95**
4	0.134" and 0.150"	**846-2042**	**14.95**
5	0.160" and 0.185"	**846-2043**	**14.95**
6	0.198" and 0.208"	**846-2044**	**14.95**
D.	6-Piece Set	**846-2045**	**74.75**

E. All-in-One Swiveling Deburrer – With five tips

Deburs holes as small as 3/32" and removes sharp or rough edges from steel, aluminum, brass or iron parts. Comes with five curved, sharpened, high-speed steel tips made from 1/8" stock for long wear and less chance of breakage. Tips swivel 360° to follow curves and contours. Handle has storage compartment and a quick release feature. Measures 5" long.

Description	Item#	Each
All-in-One Swiveling Deburrer	**846-2050**	**$18.50**

F. Swiveling Deburrer – With two tips

Makes quick work of radiusing and rounding off corners and edges. Comes with two curved, sharpened, hardened tool steel tips to quickly debur soft metals: one large (approx. 3mm diameter) and one small (approx. 2mm diameter). Each tip swivels 360° either way to follow curves and contours. Hexagonal metal handle will not roll. Measures 1/2" dia. x 5 7/8"L.

Description	Item#	Each
Swiveling Deburrer	**846-2055**	**$19.95**

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A. Shaviv Hand Deburring Tools

Shaviv is the internationally recognized choice of leading companies in the mold & die, automotive, aviation, plastics, electronics assembly and other industries.

Shaviv "B" style and "E" style blades are used for efficient deburring. "B" style blades are 2.6mm thick steel for: aluminum, stainless steel, copper, brass, cast iron and plastics. "E" style blades are 3.2mm thick and are useful for heavier duty applications. See chart below for specific blades and their applications.

Sets:

Mango II B Handle with 4 Multi-Purpose "B" Blades

Contains the Mango II B extra-close-reach handle with one each of the B10, B11, B20, & B25 blades.

Mango II E Handle with 5 Heavy Duty "E" Blades

Contains the Mango II E extra-close-reach handle for heavy duty use and one each of the E100, E111, E120, E200, & E300 blades.

Mango II M – The Two in One Telescopic Handle

Contai ns the Mango II M telescopic long-reach handle for variable extended reach up to 4".

Accommodates both B+E style blades. Included are one each of the B10, B20, B30, E100, E111, and E200 blades.

	Sets:	Item#	Each
	Mango II B with 4 Multi-Purpose "B" Blades	846-2060	$15.30
	Mango II E with 5 Heavy Duty "E" Blades	846-2062	19.50
A.	Mango II M Telescopic with 6 Blades (3 "B", and 3 "E")	846-2064	30.40

Mango II B

Mango II E

Mango II M

A

B. Shaviv Blades for Deburring Tools

"B" blades are 2.6mm thick, while heavy duty "E" blades are 3.2mm thick.

Description	Mfg.#	Blade (All clockwise work direction unless otherwise noted)	Applications: Straight Edge	Applications: Hole Edge	Applications: Cross-Hole Both Edges	For Use On: Steel	For Use On: Aluminum	For Use On: Copper	For Use On: Brass	For Use On: Cast Iron	For Use On: Stainless	For Use On: Plastics	Item#	Blades Per Pack	1-2 Pkgs.	3+ Pkgs.
HSS. Deburrs materials with spiral chips.	B10		●	●		●	●	●				●	846-2070	10	$17.00	$15.30
PVD TiN coated for high resistance to wear.	B10P		●	●		●	●	●			●	●	846-2075	2	6.95	6.26
Long-lasting, cobalt-enriched.	B10S		●	●		●	●	●			●	●	846-2074	10	17.00	15.30
Extra thin, HSS. Deburrs holes with minimum diameter 0.08" (2mm).	B11		●	●		●	●	●				●	846-2071	10	17.00	15.30
PVD TiN coated for high resistance to wear.	B11P		●	●		●	●	●			●	●	846-2076	2	6.95	6.26
HSS. Rotates clockwise & counterclockwise.	B20		●	●					●	●		●	846-2072	10	17.00	15.30
PVD TiN coated for high resistance to wear. Rotates clockwise & counterclockwise.	B20P		●	●					●	●	●	●	846-2077	2	6.95	6.26
HSS. Thin-nosed. Specially designed for plastics.	B25		●	●		●	●	●				●	846-2073	10	17.00	15.30
HSS. Simultaneously deburrs the inside and outside of holes up to 0.16" (4 mm) thick.	B30				●	●	●	●				●	846-2078	10	22.70	20.43
Heavy-duty HSS. Deburrs materials with spiral chips. Bulk pack available.	E100		●	●		●	●	●				●	846-2080	10	22.70	20.43
Long-lasting, cobalt-enriched.	E100S		●	●		●	●	●			●	●	846-2087	10	25.00	22.50
Thin-nosed. HSS. Deburrs holes with minimum diameter 0.06" (1.5mm).	E111		●	●		●	●	●				●	846-2088	10	25.00	22.50
PVD TiN coated for high resistance to wear.	E111P		●	●		●	●	●				●	846-2086	2	11.50	10.35
HSS. E shaft, B20 cutting edge for materials with powdery chips. Rotates clockwise & counterclockwise.	E120		●	●					●	●		●	846-2082	10	22.70	20.43
HSS for materials with powdery chips. Rotates clockwise & counterclockwise.	E200		●	●					●	●		●	846-2085	10	23.00	20.70
PVD TiN coated for high resistance to wear. Rotates clockwise and counterclockwise.	E200P		●	●					●	●		●	846-2083	2	9.15	8.24
HSS for materials with spiral chips. Simultaneously deburrs the inside and outside of holes up to 0.24" (6 mm) thick.	E300				●	●	●	●				●	846-2084	10	29.00	26.10

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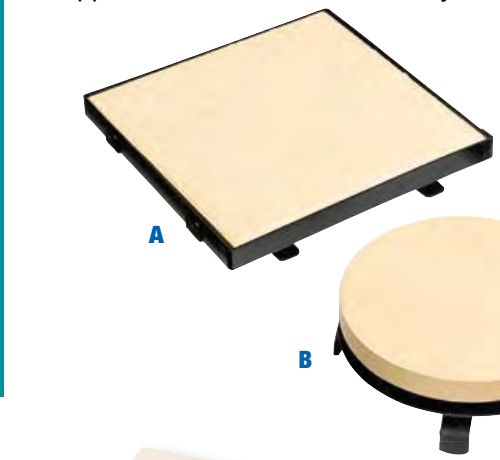

A, B Rotating Solder Tables

Solder & anneal single or multiple parts without having to move your torch.

These handy rotating tables permit 360° access to your parts so that you can work without having to move your torch. Bearings in the base provide smooth, easy movement. The tables are only 1" high, which makes it comfortable to use them on a bench top. Square table is supplied with one 6" x 6" Ceramic Soldering Pad (#830-2222) and also accommodates our Solderite Soldering Pad (#810-0100). Round table is supplied with grooved diameter ceramic soldering disc (#830-2238).

Description	Item#	Each
A. Square Table	**830-2228**	**$33.50**
B. Round Table	**830-2237**	**27.75**
Square Solderite Pad, 6" x 6"	**810-0100**	**10.50**
Replacement Ceramic Pad, 6" x 6"	830-2222	13.50
Replacement Ceramic Round Disc, 4½" dia.	830-2238	10.20

C. Two-Way Ceramic Soldering Board – Flat/Grooved

Hard ceramic soldering board that is flat on one side and deeply fluted on the other side. Fluted side is ideal for soldering fine chains because air is allowed to circulate under the area not being soldered, reducing the diffusion of heat. Excellent thermal shock resistance. Measures 7"L x 7"W x ⅞"H. Can be heated to 2,000°F.

Description	Item#	EACH Prices 1-2	3+
Two-Way Board	**830-2220**	**$26.40**	**$23.76**

D, E Annealing Pans with Pumice

Allows positioning of work while annealing or soldering on heat-reflecting pumice. Pans rotate 360° on ball bearings. Each pan comes with 2½ lbs. of lump pumice. Ship. Wt. 6 lbs.

Description	Item#	Each
D. 12" dia. Annealing Pan	**830-4000**	**$68.70**
E. 7" dia. Annealing Pan	**830-3995**	**28.50**
Pumice, 2½ lbs.	830-4001	16.40

F-H Ceramic Soldering Boards

All are nonasbestos and hard. Retain heat nicely and can be easily cleaned. Rubber feet raise boards above work surface. Very durable and smooth. Can be heated up to 2,000°F.

Size (L x W x H)	Item#	EACH Prices 1-2	3+
F. 6" x 6" x ½"	**830-2222**	**$13.50**	**$12.15**
G. 6" x 12" x ½"	**830-2224**	**17.00**	**15.30**
H . 12" x 12" x ½"	**830-2227**	**26.39**	**23.75**

I. Wesgo® Soldering Boards

Made from the same super refractory material as our popular high-temperature Wesgo crucibles for demanding thermal shock environments. Great for high-temperature soldering jobs such as platinum soldering. The material can be used at 2,642°F (1,450°C) for intermittent service (for platinum soldering, etc.) or at 2,012°F (1,100°C) for more continuous duty. Free of metal-contaminating impurities; contains no readily reducible oxides. Wesgo Soldering Boards offer extremely low thermal conductivity and no loss of strength at high temperatures.

Size (L x W X H)	Item#	Each
I. 4" x 4" x ⅜"	**830-2400**	**$84.00**
4" x 12" x ⅜"	**830-2410**	**219.00**

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A. Solderite™ Hard and Soft Soldering Pads

Nonasbestos soldering pads which are durable, smooth, and heat-reflective. Fairly hard so that they will not flake or crumble. Highly flame-resistant and noncombustible, these long-lasting, all-purpose pads can be used to protect surfaces from burning. Measure ½" thick.

Our popular Solderite Pad is also available in a soft version. You can easily push pins, heads or components into Solderite Soft for quick and easy alignment. Composed of the same material as hard Solderite and will provide the same superior heat reflection, insulating qualities and fast cool-down time. It won't break, crack or crumble as so many other soft products will. Asbestos-free, OSHA approved. Measure ¾" thick.

Size (L x W)	Hard Item#	Soft Item#	EACH Prices 1-2	3+*
6" x 6"	**810-0100**	**810-0335**	**$10.50**	**$9.45**
6" x 12"	**810-0200**	**810-0336**	**16.35**	**14.72**
12" x 12"	**810-0300**	**810-0337**	**28.30**	**25.47**

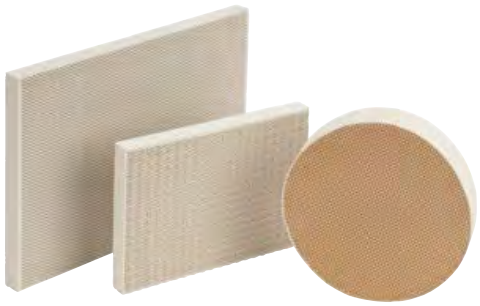
**Quantity discount for orders of one item# only, not assorted.*

A

B. Honeycomb Blocks

Very popular ceramic soldering block that contains hundreds of tiny holes to accelerate heat loss from parts being soldered. Holes also provide anchor points for pins or wires used to hold parts in place on the surface. Withstands heat up to 2,100°F.

Size (L x W x H)	Item#	Each
5¼" x 3¾" x ½"	**830-2230**	**$8.50**
5½" x 7¾" x ½"	**830-2235**	**12.50**
4½" dia. x ½" Round	**830-2236**	**12.00**

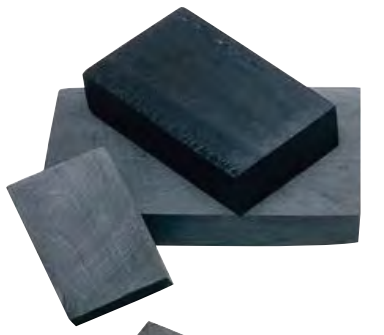


B

C. Charcoal Soldering Blocks

Made from select, close-grained, knot-free wood. Creates a reducing atmosphere and reflects heat back onto workpiece for effective soldering conditions. Soft enough to allow work to be pinned or pressed into its surface. Available in three sizes. Wrapping binding wire (see p. 508) around the perimeter of the blocks will help them last longer.

Size (L x W x H)	Item#	EACH Prices 1-2	3+
3¾" x 2¼" x 1¼"	**810-2300**	**$7.65**	**$6.89**
4½" x 3" x 1¼"	**810-2200**	**11.80**	**10.62**
7" x 4" x 1¼"	**810-2100**	**23.95**	**21.56**



C

D. Premium Charcoal Blocks

Extra-fine grain charcoal is compressed for a denser charcoal block that holds up better and lasts longer than standard blocks. Our Premium Small Block is 3 times heavier than a standard block of the same size. Our Premium Medium Block weighs almost twice as much as a standard medium block. No chemicals added. Imported.

Size (L x W x H)	Item#	EACH Prices 1-2	3-9	10+
3⅛" x 2⅝" x 1⅛"	**810-2404**	**$10.40**	**$9.36**	**$8.32**
5½" x 2¾" x 1¼"	**810-2405**	**14.95**	**13.46**	**11.96**

D

E. Magnesia Block

Porous, fibrous, fireproof material used as a surface for soldering. Reflects heat. Soft enough to allow work to be pinned or pressed into its surface. Longer lasting than charcoal. Nonasbestos.

Size (L x W x H)	Item#	EACH Prices 1-2	3+
6" x 3" x 2"	**810-2400**	**$4.75**	**$4.04**

E

F. Hi-Temp Soldering Boards

This aluminum oxide board is designed specifically for the high temperatures required when working with platinum. Safe for temperatures up to 3,500°.

Size (L x W x H)	Item#	Each
4" x 4" x ½"	**830-2240**	**$23.50**
6" x 6" x ½"	**830-2245**	**35.00**

F

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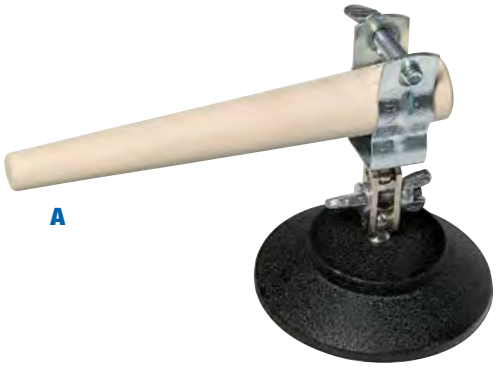
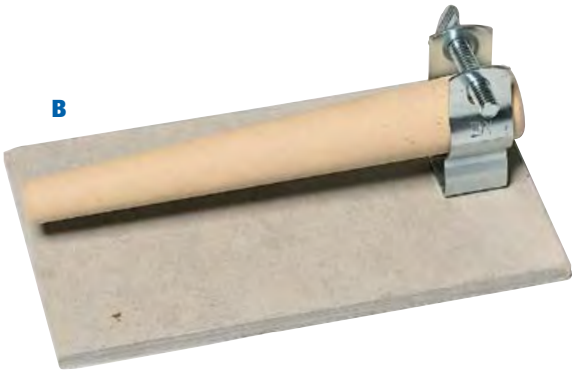


A. Round Ceramic Ring Soldering Stand

Make repairs and assembly easier by positioning your work exactly where you want it. Tapered, hard, 5¾" long ceramic rod holds rings for soldering. Two pivot joints allow rod to be positioned vertically, horizontally or anywhere in between. Round heavyweight base will not tip.

	Description	Item#	EACH Prices 1-2	3+
A.	Round Ceramic Ring Soldering Stand	**816-0406**	**$24.95**	**$18.71**
	Replacement Ceramic Rod	816-0305	12.60	11.34



B. Heat-Resistant Ceramic Ring Soldering Stand

Tapered, hard ceramic rod is mounted in one position on a heat-resistant nonasbestos base. Prevents collapse or movement when fitting shank sections together. Cleaner to use than carbon and holds heat better. Rod measures 5¾" long.

	Description	Item#	EACH Prices 1-2	3+
B.	Ceramic Ring Soldering Stand	**816-0405**	**$21.95**	**$16.46**
	Replacement Ceramic Rod	816-0305	12.60	11.34

C. Iron Binding Wire

Available in 10 different sizes for holding workpieces together for soldering or cementing. Also used for binding charcoal blocks in order to retard cracking.

No.	Approx. B & S	Dia.	Item#	EACH Prices 1-2	3+
12	24	.020"	**820-2050**	**$7.10**	**$6.39**
14	25	.018"	**820-2100**	**7.50**	**6.75**
16	26	.016"	**820-2150**	**7.95**	**7.16**
18	27	.014"	**820-2200**	**9.60**	**8.64**
20	28	.0125"	**820-2250**	**9.95**	**8.96**
22	29	.011"	**820-2300**	**13.10**	**11.79**
24	30	.010"	**820-2350**	**13.50**	**12.15**
26	31	.009"	**820-2400**	**14.40**	**12.96**
28	32	.008"	**820-2450**	**18.70**	**16.83**

D. Tripod with Mesh Screen

Complete with Fine Mesh Heating Screen to heat work from below while welding, soldering, brazing or enameling. Can be placed over an alcohol lamp or Bunsen burner for heating operations. Complete with 6½" legs. Ring diameter measures 4¾". Mesh screen is 6" square. Use with #830-1290 Heavy-Duty Mesh Screen (below) when working on heavier items.

	Description	Item#	EACH Prices 1-2	3+
D.	Tripod & Screen	**830-1295**	**$13.60**	**-**
	Replacement Fine Screen only	830-1293	5.15	$4.89

E. Mesh Heating Screens

Use on a tripod for soldering or heating work from below. Also for placing enameled pieces for firing. Available in fine or heavy-duty wire. Measure 6" x 6". Ship. Wt. 8 oz.

	Description	Item#	EACH Prices 1-2	3+
E.	Heavy-Duty	**830-1290**	**$6.40**	**$5.12**
	Fine	**830-1293**	**5.15**	**4.89**

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A. Place-It – The soldering fixture.

Safe, asbestos-free material that holds parts together during soldering, welding and brazing. A putty-like material that quickly hardens in any desired form or shape. Will not shrink on setting. Will not rob heat from joints. Ready to use. Withstands heat up to 3,200°F.

Description	Item#	Each
Jar, 4 oz.	**810-0360**	**$30.25**

A

B. Heat Stop

Our most popular nonasbestos, nontoxic paste that protects precious metals, gems, glass, wood, etc. from heat damage during soldering. Protects up to 1,500°F. Effective up to 2,400°F. May be removed with water after soldering. Net Wt. 14 oz.

Description	Item#	Each
Heat Stop, 14 oz.	**813-1850**	**$19.75**

B

C. Heat Shield

Protects jewelry components under direct flame so that it's not necessary to remove stones before soldering. Protects up to 5,000°F. Prevents oxidation. Odorless and nontoxic. Washes off with water. Net Wt. 1 lb.

Description	Item#	Each
Heat Shield, 1 lb.	**813-1822**	**$13.55**

C

D. COLDSHIELD Thermal Paste

Environmentally safe, nontoxic, noncorrosive paste that protects precious and ferrous metals, gems, plastic, organics, and any other material from heat damage during soldering or welding. Effective up to 3,000°F. Washes off easily with water.

Description	Item#	Each
COLDSHIELD, 1 lb.	**813-1861**	**$12.50**

D

E. Kool Jool

Protects against heat while soldering. Lets you solder without removing stones (except opal, turquoise, emerald and other sensitive stones). Thick gel stays where you place it. So easy to use, it's also nontoxic and odorless. Rinses off with water. Net Wt. 8 oz.

Description	Item#	Each
Kool Jool, 8 oz.	**813-1855**	**$8.30**

E

F. Soldering Grain

Irregularly shaped grains used to hold items for soldering. Acts like a third hand. The granular form allows objects otherwise difficult to position for soldering to be embedded with only the part to be soldered left exposed. Will not discolor gold or silver. Reusable and odorless. May be used wet or dry. If used wet, place in a heat-resistant, nonrusting container. Net Wt. 12 oz.

Description	Item#	Each
Soldering Grain, 12 oz.	**830-2310**	**$14.95**

F

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A

A. Pickler

Provide a safe and convenient way to heat Gesswein Pickling solution. Our 12oz. capacity pickler achieves pickling temperature in minutes and maintain it without boiling. For removing oxides from the surface of silver, gold, copper and most other nonferrous metals. Supplied with one polypropylene basket for retrieving cleaned workpieces.

	Model	Electrical	Capacity	Dimensions (D x H) Inside	Outside	Item#	Each
A.	400	115V, 125W, 50/60Hz	12 oz.	3" x 4¼"	4⅞" x 5½"	**821-2450**	**$133.00**

Description	Dimensions (D x H)	Item#	Each
Replacement 400 Basket	2⅝" x 4"	**821-2600**	**$18.95**

B

B. Gesswein® Pickling Compound

A dry granular acid compound for cleaning and removing surface oxidation and incrustation from silver, gold, copper and most other nonferrous metals. Produces a clean, smooth, bright surface without affecting the tolerance of metals. Long-lasting compound withstands heat up to 300°F (150°C). Use 5 lbs. to make up to 2 gallons.

	Description	Item#	Each
B.	Gesswein Pickling Compound, 5 lbs.	**821-2650**	**$22.95**
	Gesswein Pickling Compound, 25 lbs.	**821-2652**	**49.95**

C

C. Citpic – The safer pickling compound.

Citpic is safer to use than standard pickling compound yet just as effective for removing firescale and flux after soldering applications. Citpic is a mild organic citric acid, colorless and odorless. It's gentle on skin and fabrics but tough on firescale and flux residue.

Heat Citpic in your pickle pot for fast, safe, effective cleaning of platinum, gold, silver and steel. You can even use steel tweezers and binding wire—Citpic won't cause copper contamination. Citpic is long-lasting and retains its effectiveness even after repeated use.

Description	Item#	Each
Citpic, 2 lbs.	**821-2675**	**$12.50**
Citpic, 50 lbs.	**821-2677**	**225.00**

D

D. Acid Neutralizer

Dissolve approx. 2 oz. in 1 cup of warm water to make neutralizer solution. After removing items from pickling solution, place them into neutralizer solution to stop the pickling process. Wait 30 seconds, remove and rinse well. Do not heat. Sold in 6 oz. container.

Description	Item#	Each
Acid Neutralizer	**821-2685**	**$4.40**

E F G

E-G Firescoff™ - Prevents Firestain

Revolutionary heat-activated ceramic spray coating. Combines a scale preventer and high-performance non-fluorinated flux for both hard and soft solder in one formula. Leading jewelers and jewelry manufacturers have switched from boric acid, paste flux and pickle solution to Firescoff because it's faster, provides more gemstone protection and cleans up easier. It's also alcohol and fluoride free, offering a real safety improvement over traditional methods. Cleans up easily in warm water, less than two minutes in an ultrasonic cleaner. 1 oz. size protects approx. 60–75 rings.

	Description	Item#	EACH Prices 1-2	3-5	6+
E.	1 oz. Spray Bottle (30ml)	**830-4537**	**$9.50**	**$9.03**	**$8.55**
F.	4.25 oz. Spray Bottle (125ml)	**830-4538**	**24.50**	**23.28**	**22.05**
G.	34 oz. Bulk Refill (1000ml)	**830-4539**	**195.00**	**185.25**	**175.50**

H I J

H-J Firescoff™ Rh for Rhodium

Firescoff™ Rh ceramic coating technology protects and prevents rhodium plated jewelry from turning black during resizing or repair. Avoid the need, time and cost required to strip and re-electroplate rhodium coatings. Multiple repairs are accomplished with a single application. This fluoride free and alcohol free liquid maintains original metal color and patina. Easy warm water cleanup, no pickling needed. Available in 3 sizes, a 1-ounce (30ml) sample size, 4.25 ounces (125ml) Ideal for bench jewelers needing to protect 200+ pieces; and for multiple jewelers or large shops 34 ounces (1000ml). Bulk refill also available.

	Description	Item#	EACH Prices 1-2	3-5	6+
H.	1 oz. Spray Bottle (30ml)	**830-4540**	**$10.50**	**$9.98**	**$9.45**
I.	4.25 oz. Spray Bottle (125ml)	**830-4541**	**32.95**	**31.30**	**29.66**
J.	34 oz. Bulk Refill (1000ml)	**830-4542**	**270.00**	**256.50**	**243.00**

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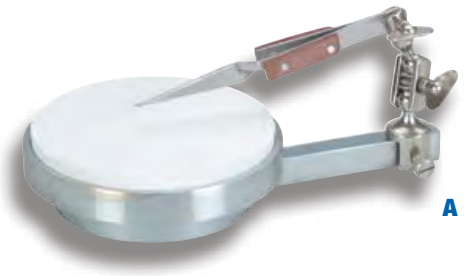
A. Heetrix

The cleaner, safer way to solder your jewelry.

Space-saving Heetrix is a soldering station that rotates 360° to use in any position you want, then swings out of the way when you aren't using it. Includes a 3¾" diameter Hard Solderite disc with a depression underneath that can hold soldering grain (see page 509 830-2310, grain sold separately) for embedding items that need heat protection. Also includes a 4½" long stainless steel, insulated, cross-lock tweezers in a Third Hand. This all-in-one soldering system is incredibly convenient, which is no surprise since it was designed by master jeweler Jay Whaley. Everything you need to solder is kept neatly in one place which you can swing in and out as needed. Comes with two mounting options: C-Clamp for benches up to 2¼"thick or peg-mount (requires drilling a hole into bench top). Dimensions: 7½"L x 6"W x 2"H. Net Weight: 3 lbs.


A

Description	Item#	Each
Heetrix	**812-0851**	**$42.95**
Replacement Solderite Disc	812-0852	6.90

B. Hydroflux Welder System

The cleaner, safer way to solder your jewelry.

Hydroflux is a complete torch system that manufactures its own fuel from distilled water. Uses hypodermic-type tips to create flames ranging from a pinpoint for fine soldering up to a broad flame for sizing large men's rings.

Hydroflux's hydrogen/oxygen mix produces a clean non-contaminating flame ideal for platinum soldering and welding. Produces flame temperatures up to 4,850°F (2,675°C). Ideal for malls, homes and anywhere compressed gas and oxygen tanks are a concern.

Hydroflux comes complete with one torch with 4' flexible hose, eight-piece tip set, chemicals and in-line dryer. Sight gauges indicate when additional flux and water are needed. Hydroflux is easy to use and easy to set up with complete instructions included. Cabinet measures 16"W x 9"D x 10"H. Ship. wt: 45 lbs. Made in USA.

B

Description		Item#	Each
Complete System, 110V	$	**830-0830**	**$1,250.00**
Replacement Parts		**Item#**	**Each**
Electrolyte Solution, 1 qt.	$	830-0833	$31.50
Flux Solution, 1 qt.	$	830-0834	19.50
Torch Handpiece with 4' hose		830-0835	123.50
8-Piece Tip Set		830-0836	4.65
Cotton Fiber Filter		830-0837	7.75

C. Electric Soldering Machine

Electric soldering eliminates the hassles associated with flame soldering: no more firescale, no hazardous compressed gas, minimal oxidation and very little cleanup. Solder right next to most stones and pearls without removing them. Retip prongs, size rings, solder jump rings fast, and do assembly work. Easy to use with a little practice: simply position your work and solder chip in the versatile holders, dial up the power (max. temp. 2,000°F) and step on the foot pedal. The joint is as strong and as permanent as any solder joint made with a flame—but much easier to make. The unit is designed so that both hands can rest comfortably on your workbench.

Comes complete with control box and foot pedal, three large and two small carbon rods, contact rod, small and large clamps and stand for large carbon rods. Measures 10¼"W x 6⅞"D x 4⅛"H. Weighs 12 lbs. Made in USA.

C

Description	Item#	Each
Electric Soldering Machine, 110V	**830-2030**	**$365.00**
Electric Soldering Machine, 220V	**830-2035**	**365.00**
Replacement Rods, set of 5	830-2040	25.00

D, E Copper Tongs

Designed especially for use with pickling and acid solutions. Will not contaminate solutions nor corrode. Fishtail tips are thinner to pick up small or flat items. Measure 9" long.

D

E

	Description	Item#	EACH Prices 1-2	3+
D.	Copper Tongs	**195-0100**	**$6.25**	**$5.31**
E.	Copper Fishtail Tongs	**195-0110**	**8.85**	**7.52**

$ *UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.*

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PUK04 High-Precision Welding Systems

Three-point corner welding

3-year warranty!

A, B PUK04 Welder – The Perfect Laser Alternative!

With its components tailored to ideally complement each other, this modern welding system is sure to impress: Control unit, welding microscope and the precision handpiece combined with an intuitive approach to operating and handling, controlled via the modern touch display. It's the interaction between all of these elements that makes reliable and reproducible welding possible – the perfect device for every goldsmith and every workshop.

Touchscreen display leads the operator quickly and easily to the desired welding result. Metal (gold, silver, platinum, etc) is selected first followed by the actual welding scenario or geometry such as "thin sheet", "welding in an angle", or "apply welding wire", etc. With these pre-settings the various welding curves, the energy curve and any high frequency overlapping of pulses are set in advance and the recommended settings for the welding performance and time are implemented. Select between two variations of Puk04. One is available with SM04 scope and standard scope stand; or for more versatility the PUK04 with SM04 scope and pivot arm with headrest. Only difference between either package is what holds the SM04 scope. (Standard SM04 stand or Pivot Arm). Made in Germany.

Specifications:

Welding Speed	Up to 1.5Hz
Inert Gas Consumption	(e.g. argon 4.6) approximately 2 liters/minute
Memory Slots	40
Microscope Magnification	10X
Microscope Eye Protection	DIN 3/DIN 11 UV 15 Protection/IR 14 Protection
Electrical	115V
Dimensions	13"L x 5"W x 8"H
Weight	30-40 lbs.

Facts that Speak for Themselves...

- Consistently reproducible high-quality welding results with all materials suitable for welding such as Gold, Silver, Platinum, Titanium and Stainless Steel.
- Precise positioning of the spot welds such as gold, silver, platinum, titanium and stainless steel.
- Very low, controllable development of heat
- Welding possible on even the thinnest of materials
- Certified eye protection in the microscope lens
- Ergonomically optimised for work efficiency
- Compact size – fits into every workshop and on any benchtop
- Welding microscope for precise welding results

Practical system add-ons such as the PIN module, welding smoke absorber, welding wires and more; all available to suit your individual requirements. See following page.

Description	Item#	Each
A. PUK04 with SM04 Microscope - Standard	**830-1515**	**$5,295.00**
B. PUK04 with SM04 and Pivot Arm	**830-1513**	**5,795.00**

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Developed by Goldsmiths...for Goldsmiths!

A. PUK Flow Regulator – Argon Gas

An important prerequisite for dependable welding results is the correct flow rate of Argon gas. PUK flow regulator enables the exact setting of the recommended 2 liters per minute flow rate. It's precise and it's easy but above all, it's reliable!

Description	Item#	Each
PUK Flow Regulator	**830-1516**	**$135.00**

A

B. PIN04 Attachment – Earring Post Welder

With the new PIN module, the welding of ear studs takes just a matter of seconds – whether they are made with precious metals, titanium, stainless steel or one of many other metals. Suitable for use with even the thinnest of materials. Virtually no heat impact on the workpiece. Also ideal for mass production.

Specifications:

Power Consumption	50W
Dimensions	6¾"L x 4½"W x 13½"H
Weight	6 lbs. (Shipping Weight 10 lbs.)

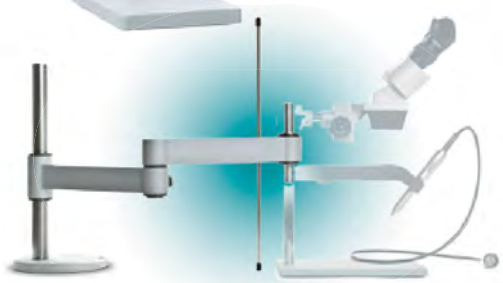
Description	Item#	Each
PIN04 Attachment	**830-1520**	**$750.00**

B

C. Microscope Pivot Arm

Greater flexibility at the workbench. Generates more space for welding larger objects. Better use of space in the smaller workshop

Description	Item#	Each
Pivot Arm	**830-0997**	**$575.00**



C

D. Welding Smoke Absorber

Dust and vapors are extracted through an integrated active carbon filter, filtered and neutralized. Device automatically controlled by the PUK04 – no continuous operation. The perfect addition for the frequent welder or when welding in very tight spaces.

Description	Item#	Each
Smoke Absorber	**830-1517**	**$179.00**
Replacement Carbon Filter	**830-1526**	**20.00**

D

E. Foot Pedal

As an alternative to the automated welding process, each weld can be triggered individually using the foot pedal.

Description	Item#	Each
Foot Pedal	**830-0993**	**$65.00**

E

F. PUK Electrode Sharpener

Good welding results are dependent upon the condition of your electrode tips. Keep them in the best shape by using the Electrode Sharpener.

Description	Item#	Each
Electrode Sharpener	**830-0968**	**$195.00**

F

All prices subject to change without notice.

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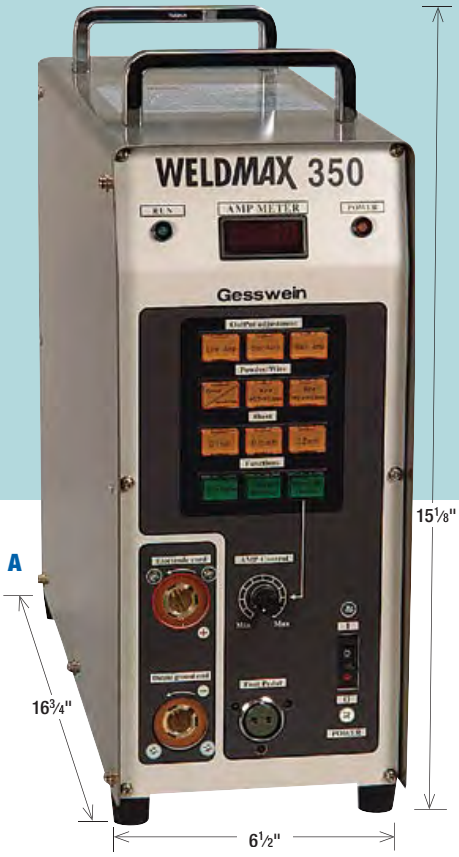
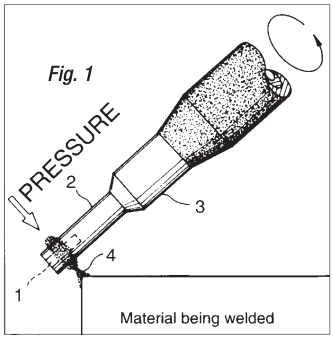
Advantages of Microwelding with Weldmax 350 – For Steel

The process emits no heat beyond the repair area, so there's no metal stress, distortion or shrinkage. Weld material is minimal, which makes hand and machine finishing easier. Hardening and plating can be done after welding. Only gentle pressure is required on welding electrodes, preventing the formation of cavities or pinholes.

Suitable for all forms of small mold damage. No need for other types of welding (e.g., argon or laser welding). Safe and easy to operate—no special training necessary. No harmful welding fumes or toxic gases are emitted. No scaling or flaking occurs. High-quality welding alloys are free of impurities to ensure resulting welds are reliable.

As gentle electrode pressure is applied to the damaged area, these pulses fuse metal powder, sheet or wire weld material to the mold under repair. Weld material containing alloying properties of the ferrous metal being welded is first fused then welded into the base metal by a systematic and controlled supply of amperage discharges. This process builds up weld material, producing a strong weld that penetrates the mold surface. The welding process can be fine-tuned by adjusting frequency of pulses and output current. Made in Japan.





Edge weld

Corner weld

A. Weldmax 350 Microwelder

Increase mold life and reduce repair costs by up to 85%!

Perform controlled repairs on very small mold areas with the fast and powerful Weldmax 350 Microwelder. Its modern electronic controls help produce strong, homogeneous weld patterns, even under the most difficult working conditions. Weldmax 350's precision function, which provides very short-duration pulses (200 times a minute), permits ultimate control of tiny part welding. Unit features six push-button weld material selections and three push-button amperage selections for easy, automatic welding. Includes automatic operation override for manual welding with up to 1,600 amps.

Industrial Uses

Suitable for use on molds and dies for plastics and rubber, die casting molds and compression molds. For all steels, stainless steels and other ferrous metals. Not recommended for use on press dies, and will not weld on aluminum molds.

Applications:

- Building up parting lines, mold seams, three-point corners and edges
- Filling pores and repairing pinholes
- Eliminating characteristic holes, sags or pores following the argon welding process
- Repairing slides, ejectors, core pins, flat cores and mold edges
- Eliminating machining defects caused by milling, countersinking and wire EDM
- Modifying designs of inserts, cores and prototype molds

Specifications:

Input Voltage	120V or 230V AC, 50/60Hz
Consumable Power	1,500VA
Control System	SCR switching system
Timer	200 min.
Output Power	1200W
Output Voltage	0–10V
Output Current	0–1,600A, 0–700A precision function
Auto Function	Current discharge control for tack or continuous welding
Dimensions	6½"W x 16¾"D x 15⅛"H (165 x 425 x 385mm)
Weight	39.5 lbs. (18kg)

	Description		Item#	Each
A.	Weldmax 350, 120V		511-0010	–
	Weldmax 350, 230V		511-0015	–

Prices subject to change due to currency fluctuation. Please see web site or call for current pricing.

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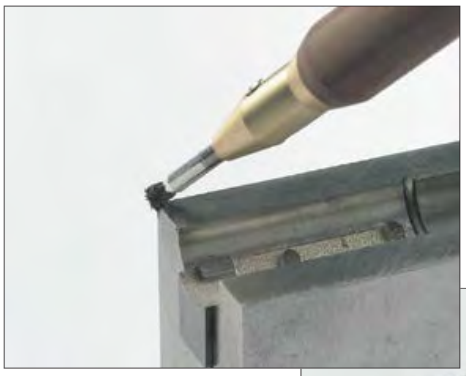
A

A. Accessory Set – Included with Weldmax 350

Weldmax 350 comes ready to use with a generous assortment of magnetic and nonmagnetic electrodes, electrode holders and sheet and powder welding materials—everything you need to weld large molds made of softer steels and small molds made of harder steel alloys (see list below for complete list of Weldmax 350 components). A complete range of accessories and replacement parts are also available, including additional magnetic and nonmagnetic electrodes (see pp. 516-517), electrode holders (see p. 516) and wire, sheet and powder welding materials in various alloys (see pp. 518-519).

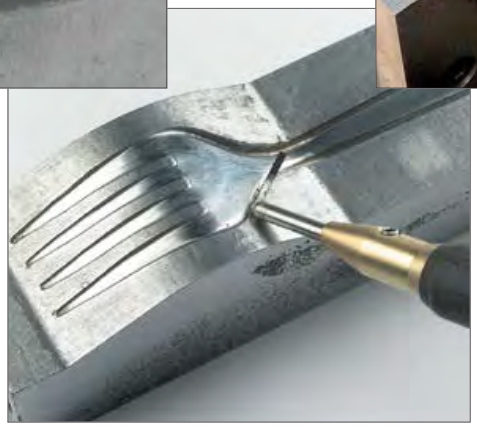
Components:

- Power Pack and Cord
- On/Off Foot Switch
- Grounding Cord, 6½'
- Electrode Holder Cord, 6½'
- Replacement Fuse, 2A
- Copper Grounding Plate, 2 x 20 x 100mm
- Safety Goggles and Gloves
- Screw and Wrench Set
- Sheet Metal Shears
- Masking Tape
- Tool Box
- Magnetic Electrodes: ø2 x 50, 3 x 50, 4 x 50, 4 x 60mm
- Nonmagnetic Electrodes: ø2 x 50, 3 x 50, 4 x 50, flat 1.2 x 5 x 35mm
- Brown Electrode Holders for magnetic electrodes: ø2, 3, 4mm
- Black Electrode Holders for nonmagnetic electrodes: ø2, 3, 4, 5mm
- Insert Collet for ø5mm nonmagnetic electrode holder (for holding flat 1.2 x 5 x 35mm electrode)
- Metal Welding Strips (10 pieces each):
  NTA1 (Ni alloy, HV 135), 0.1 x 30 x 70mm;
  NTA2 (Ni alloy, HV 135), 0.2 x 30 x 70mm;
  NAK80 (NAK80, HRC 38–40), 0.1 x 5 x 100mm
- Metal Welding Powder (40 grams each):
  N51 (Hardened SKH51, HRC 63);
  N80 (Prehardened NAK80/PHM50, HRC 38–40)

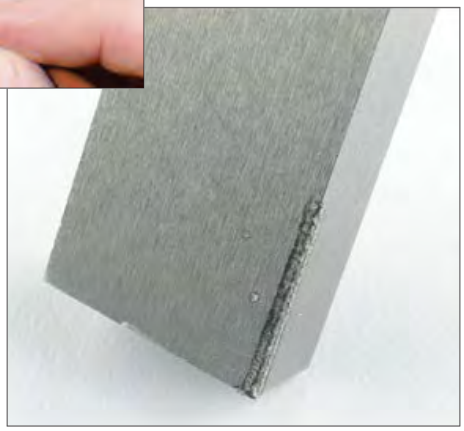


Three-point corner welding

In-press mold repair



Buildup process



Repaired edge

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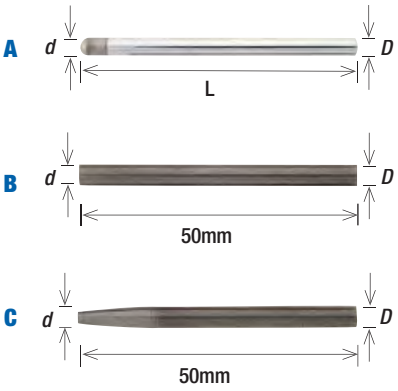
Weldmax Electrodes and Electrode Holders

Weldmax Electrodes are available in two forms: magnetic and nonmagnetic. Magnetic electrodes provide an easy method for placing and welding metal powder. Nonmagnetic electrodes are used to tack in place sheet and wire and to weld sheet, wire and powders. All nonmagnetic electrodes can be shaped to conform to the mold surfaces being repaired to improve the efficiency of the welding process. Electrode Holders are color-coded for easy distinction: brown to hold magnetic electrodes, black to hold nonmagnetic electrodes. Use standard 15mm O.D. for all normal repair work and slim 12mm O.D. for repairs in narrow areas or deep recesses. All electrodes and holders fit Weldmax 350. Made in Japan.



A-C Magnetic Electrodes

	Tip Shape	Dimensions (d x L x D)	Use Magnetic Electrode Holder	Item#	Each
A.	Round	2 x 50 x 3mm	3mm slim, 3mm std.	**511-0180***	–
		3 x 50 x 3mm	3mm slim, 3mm std.	**511-0181***	–
		4 x 60 x 4mm	4mm std.	**511-0182***	–
		5 x 60 x 5mm	5mm std.	**511-0183**	–
B.	Straight	2 x 50 x 2mm	2mm slim, 2mm std.	**511-0185**	–
		3 x 50 x 3mm	3mm slim, 3mm std.	**511-0186**	–
		4 x 50 x 4mm	4mm std.	**511-0187***	–
		5 x 50 x 5mm	5mm std.	**511-0188**	–
C.	Taper	2.5 x 50 x 4mm	4mm std.	**511-0189**	–
		2.5 x 50 x 5mm	5mm std.	**511-0190**	–

**Supplied with Weldmax 350.*

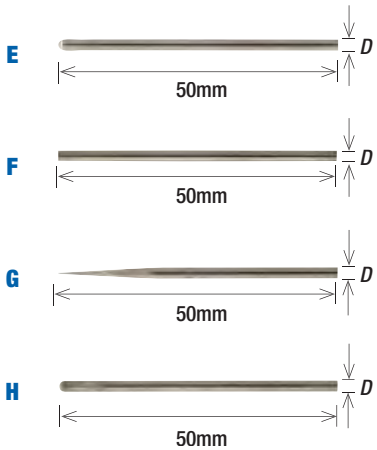
Please see web site or call for current pricing.

D. Brown Holders for Magnetic Electrodes – Slim and Standard

Style	Dimensions (O.D. x L)	Item#	Each
2mm slim	12 x 125mm	**511-0214**	–
3mm slim	12 x 125mm	**511-0215***	–
2mm std.	15 x 125mm	**511-0210**	–
3mm std.	15 x 125mm	**511-0211**	–
4mm std.	15 x 125mm	**511-0212***	–
5mm std.	15 x 125mm	**511-0213**	–

**Supplied with Weldmax 350.*

Please see web site or call for current pricing.



E-H Nonmagnetic Electrodes

	Tip Shape	Dimensions (L x D)	Use Nonmagnetic Electrode Holder	Item#	Each
E.	Round	50 x 2mm	2mm slim, 2mm std.	**511-0195***	–
		50 x 3mm	3mm slim, 3mm std.	**511-0196***	–
		50 x 4mm	4mm std.	**511-0197***	–
		50 x 5mm	5mm std.	**511-0198**	–
F.	Straight	50 x 2mm	2mm slim, 2mm std.	**511-0199**	–
		50 x 3mm	3mm slim, 3mm std.	**511-0200**	–
		50 x 4mm	4mm std.	**511-0201**	–
		50 x 5mm	5mm std.	**511-0202**	–
G.	Thin Chisel	50 x 2mm	2mm slim, 2mm std.	**511-0205**	–
H.	Thin Round	50 x 2mm	2mm slim, 2mm std.	**511-0206**	–

**Supplied with Weldmax 350.*

Please see web site or call for current pricing.

I. Black Holders for Nonmagnetic Electrodes – Slim and Standard

Style	Dimensions (O.D. x L)	Item#	Each
2mm slim	12 x 125mm	**511-0324***	–
3mm slim	12 x 125mm	**511-0325***	–
2mm std.	15 x 125mm	**511-0320**	–
3mm std.	15 x 125mm	**511-0321**	–
4mm std.	15 x 125mm	**511-0322***	–
5mm std.	15 x 125mm	**511-0323***	–

**Supplied with Weldmax 350.*

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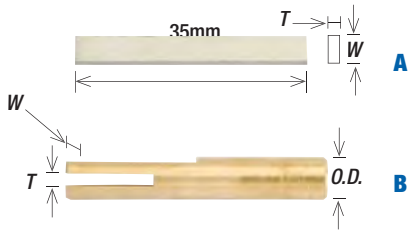
A. Flat Nonmagnetic Electrodes

Tip Shape	Dimensions (T x W x L)	Use Electrode Holder	Item#	Each
Flat	1.2 x 5 x 35mm	5mm std.	**511-0203***	–
	2.2 x 5 x 35mm	5mm std.	**511-0204**	–



B. Insert Collets for Flat Nonmagnetic Electrodes

Collet	Dimensions (T x W x O.D.)	Use Electrode Holder	Item#	Each
For Flat 1.2T	1.2 x 5 x 5mm	5mm std.	**511-0218***	–
For Flat 2.2T	2.2 x 5 x 5mm	5mm std.	**511-0219**	–

**Supplied with Weldmax 350.*

C. Black Holder for Insert Collets and Flat Nonmagnetic Electrodes

Style	Dimensions (O.D. x L)	Item#	Each
5mm std.	15 x 125mm	**511-0323**	–

Supplied with Weldmax 350.

Please see web site or call for current pricing.

D. Meiji Stereo Zoom Microscopes

Standard Binocular and Camera-Ready Trinocular Styles

From the premier optics manufacturer in Japan, these microscopes feature a Greenough optical design and high-resolution optics free of chromatic and spherical aberrations for yielding crystal-clear upright and unreserved stereoscopic images with rich contrast, impressive brightness and true-to-life color. Boast great depth of field and image flatness for accurate viewing and long working distances for ample workspace. Ideal for inspection of fine details.

Lightweight yet durable all-metal aluminum alloy bodies with premium components and chemical-resistant finishes provide stability and durability for a lifetime of dependable use. The 45°-inclined observation tubes with adjustable interpupillary distance and diopter tubes eliminate eyestrain.

GRS acrobat boom stand with friction arms, focus block and padded headrest ensures superb flexibility and comfort. Entire assembly can be easily positioned and quickly swung away when not in use. Friction arms lock in place when needed. Focus block securely holds microscope body. Padded headrest reduces neck and back fatigue.

Ring light with extra-bright circular fluorescent bulb provides cool, glare-free illumination. Fits many other microscopes besides those from Meiji. Electrical: 115V.

D

Features:

- Binocular and Trinocular styles that can be rotated 360° and locked in any position
- High-resolution optics for yielding upright and unreversed stereoscopic images
- Rugged all-metal bodies and components designed to last a lifetime
- Ergonomically positioned bilateral zoom controls
- Interpupillary distance adjustment from 54–75mm
- Dual dioptric adjustment (±5 diopters) for maintaining focus throughout zoom range

Binocular and Trinocular Components:

- 10X eyepieces with eyeshields
- 0.5X auxiliary objective lens for increased working distance
- GRS Acrobat Boom Stand with focus block and headrest
- Ring Light, 115V
- Protective dust cover and instruction manual

Specifications:

Body Style	Binocular or Trinocular, each with 360° rotation
Zoom Control	Dual, graduated, bilateral mount
Zoom Range	0.7–4.5X (0.35–2.25X with 0.5X objective lens)
Magnification	7–45X (3.5–22.5X with 0.5X objective lens)
Field of View	32.8–5.1mm (65.6–10.2mm with 0.5X objective lens)
Working Distance	93mm (Binocular/Trinocular with 0.5X objective lens: 150/170mm)
Interpupillary Distance	Adjustable from 54–75mm
Dioptric Adjustment	Dual (±5 diopters)

Ring Light on Microscope

	Description	Item#	Each
D.	Binocular Microscope with Acrobat Stand and Ring Light	**271-3029**	**$2,179.00**
	Trinocular Microscope with Acrobat Stand and Ring Light*	**271-3067**	**2,742.00**

**Designed for photo and video applications. When the beamsplitter is engaged, it does not obstruct the eyetubes; all three viewing ports are lighted for simultaneous use. Can be used with most cameras, including digital, SLR, digital SLR and CCD. Call for available adapters.*

Ring Light Circuline Bulb

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Welding Materials

Welding materials are available in atomized metal powder (standard and precise grades for use with precision function), sheet metal (0.1–0.2mm thick) and wire (0.2–0.6mm dia. and 0.015–0.025" dia.). The welding materials are particularly suitable for use with rolled, prehardened, quenched and tempered, free cutting steels and stainless steels. Each has a different hardness and metal mold application. Ideally, weld material hardness should match base metal hardness. As a rule, however, very good results can be achieved with N80 powder or NAK80, NTA1 or NTA2 sheet (supplied with Weldmax). These produce strong homogeneous welds on most molds. Molds for small parts usually made of harder alloys should be welded with N51 powder (supplied with Weldmax) or harder sheet material. Made in Japan.

A

A. Standard Welding Powder – For repairing most damaged areas

Style	Material	Hardness	Application	Item#	40g Pkg.
N40	Ni-Cr Alloy	HRC 36–42	All Mold Steels	**511-0220**	–
N90	Ni Alloy	HRC 16–20	All Mold Steels	**511-0221**	–
N50	Ni Alloy	HRC 47–53	All Mold Steels	**511-0222**	–
N13	Ni Alloy	HRC 10–15	All Mold Steels	**511-0223**	–
NS8	SS 304	HV 200 Max.	All Mold Steels	**511-0224**	–
NS12	SS 316	HV 200 Max.	All Mold Steels	**511-0225**	–
N11	Hardened SKD11	HRC 50 Min.	A-2	**511-0227**	–
N70	Fe (Iron)	HRC 50–55	Cast Iron	**511-0229**	–
N51	Hardened SKH51	HRC 63 Min.	D-2	**511-0226***	–
N11	Hardened SKD11	HRC 50 Min.	D-2	**511-0227**	–
N61	Hardened SKD61	HRC 53 Max.	H-13	**511-0228**	–
N51	Hardened SKH51	HRC 63 Min.	M-2	**511-0226***	–
N80	Prehardened NAK80/PHM50	HRC 38–40	P-20	**511-0230***	–
N80	Prehardened NAK80/PHM50	HRC 38–40	P-21	**511-0230***	–
N55	Prehardened NAK55/PHM1	HRC 38–41	P-21	**511-0231**	–
N39	Stavax/PD555	HRC 50–52	STAVAX	**511-0233**	–
N51	Hardened SKH51	HRC 63 Min.	S-7	**511-0226***	–
N38	HPM38/PD555	HRC 30 Max.	SS 420	**511-0232**	–

**Supplied with Weldmax 350.*

Please see web site or call for current pricing.

B

B. Precision Function Welding Powder – Finely graded for welding small parts

Style	Material	Hardness	Application	Item#	40g Pkg.
N14	SCM, PHM2-2311	HRC 30+	All Mold Steels	**511-0247**	–
N15	SNCM, HPM17	HRC 30–35	All Mold Steels	**511-0248**	–
N16	SNCM, 2767	HRC 30–35	All Mold Steels	**511-0249**	–
SA60	UDHOLM ASP	HRC 58–72	ASP	**511-0239**	–
SP11	Hardened SKD11	HRC 50	A-2	**511-0241**	–
SP51	Hardened SKH51	HRC 63 Min.	D-2	**511-0240**	–
SP11	Hardened SKD11	HRC 50	D-2	**511-0241**	–
SP61	Hardened SKD61	HRC 53 Max.	H-13	**511-0242**	–
N5	2162	HRC 54–56	H-13	**511-0245**	–
SP51	Hardened SKH51	HRC 63 Min.	M-2	**511-0240**	–
SP80	Prehardened NAK80/PHM50	HRC 38–40	P-20	**511-0243**	–
SP80	Prehardened NAK80/PHM50	HRC 38–40	P-21	**511-0243**	–
SP55	Prehardened NAK55/PHM1	HRC 38–41	P-21	**511-0244**	–
N6	SKD6, 2343	HRC 38–45	P-21	**511-0246**	–
SP51	Hardened SKH51	HRC 63 Min.	S-7	**511-0240**	–

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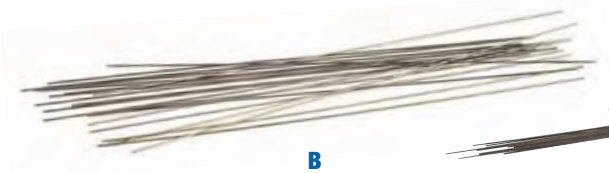
A. Welding Sheet and Strips

Size (mm)	Material	Hardness	Application	Item#	Pkg. of 10
0.1 x 30 x 70	NTA1 (Ni Alloy)	HV 135	All Mold Steels	**511-0280***	–
0.2 x 30 x 70	NTA2 (Ni Alloy)	HV 135	All Mold Steels	**511-0281***	–
0.1 x 30 x 70	NS1 (SS Alloy)	HRB 90	All Mold Steels	**511-0282**	–
0.2 x 30 x 70	NS2 (SS Alloy)	HRB 90	All Mold Steels	**511-0283**	–
0.2 x 5 x 100	NT6	HRC 30	All Mold Steels	**511-0268**	–
0.1 x 5 x 100	SKD61	HRC 53	H-13	**511-0275**	–
0.2 x 5 x 100	SKD61	HRC 53	H-13	**511-0276**	–
0.1 x 5 x 100	NAK80	HRC 38–40	P-20	**511-0270***	–
0.2 x 5 x 100	NAK80	HRC 38–40	P-20	**511-0260**	–
0.1 x 5 x 100	HPM2	HRC 30–33	P-20	**511-0271**	–
0.2 x 5 x 100	HPM2	HRC 30–33	P-20	**511-0261**	–
0.2 x 5 x 100	MAS1	HRC 50–53	P-20	**511-0263**	–
0.2 x 5 x 100	YAG	HRC 50–53	P-20	**511-0265**	–
0.1 x 5 x 100	NAK80	HRC 38–40	P-21	**511-0270***	–
0.2 x 5 x 100	NAK80	HRC 38–40	P-21	**511-0260**	–
0.1 x 5 x 100	NAK55	HRC 38–40	P-21	**511-0272**	–
0.2 x 5 x 100	NAK55	HRC 38–40	P-21	**511-0266**	–
0.1 x 5 x 100	HPM50	HRC 38–40	P-21 Improved	**511-0273**	–
0.2 x 5 x 100	HPM50	HRC 38–40	P-21 Improved	**511-0262**	–
0.2 x 5 x 100	STAVAX	HRC 50–52	STAVAX	**511-0264**	–
0.1 x 5 x 100	HPM38	HRC 30–33	SS 420	**511-0274**	–
0.2 x 5 x 100	HPM38	HRC 30	SS 420	**511-0267**	–

**Supplied with Weldmax 350.*

Please see web site or call for current pricing.

A



B

C

D

B. Welding Wire – inch diameters

Available in three diameters: 0.025", 0.020" and 0.015". Measure 6" (150mm) long. Sold in packages of 25.

Material	Hardness	Application	0.025 Dia. Item#	Pkg. of 25	0.020 Dia. Item#	Pkg. of 25	0.015 Dia. Item#	Pkg. of 25
SS 420	HRC 50	All Mold Steels	**511-0351**	**$16.50**	**511-0359**	**$19.75**	**511-0367**	**$23.50**
A-2	HRC 45–50	A-2	**511-0353**	**16.50**	**511-0361**	**19.75**	**511-0369**	**23.50**
H-13	HRC 58–60	H-13	**511-0352**	**16.50**	**511-0360**	**19.75**	**511-0368**	**23.50**
P-20	HRC 50–55	P-20	**511-0355**	**16.50**	**511-0363**	**19.75**	**511-0371**	**23.50**
P-20 Modified	HRC 30–35	P-20 Modified	**511-0356**	**16.50**	**511-0364**	**19.75**	**511-0372**	**23.50**
S-7	HRC 54–56	S-7	**511-0354**	**16.50**	**511-0362**	**19.75**	**511-0370**	**23.50**
SS 316	HRC 20	SS 316	**511-0350**	**16.50**	**511-0358**	**19.75**	**511-0366**	**23.50**

C. Welding Wire – mm diameters

Available in two diameters: 0.3mm and 0.6mm. Measure 150mm (6") long. Sold in packages of 20.

Material	Hardness	Application	0.3 Dia. Item#	Pkg. of 20	0.6 Dia. Item#	Pkg. of 20
NAK80	HRC 38–40	P-20, P-21	**511-0379**	–	**511-0374**	–
NAK55	HRC 38–40	P-21	**511-0376**	–	**511-0375**	–
STAVAX	HRC 50–52	STAVAX	**511-0378**	–	**511-0377**	–

Please see web site or call for current pricing.

D. Welding Wire – mm diameters

Each package contains 5 meters (approx. 16.5') of wire. Available in four diameters: 0.2mm, 0.3mm, 0.4mm and 0.5mm.

Material	Hardness	Application	0.2mm Dia. Item#	0.3mm Dia. Item#	Each	0.4mm Dia. Item#	0.5mm Dia. Item#	Each
SS Alloy	HRB 90	All Mold Steels	**511-0290**	**511-0291**	–	**511-0292**	**511-0293**	–

Please see web site or call for current pricing.

All prices subject to change without notice.

G-TEC Superior Torch Performance • Save Money • Safe Workshop

G-TEC Torch Boosters replace acetylene, propane and other fuel gas cylinders. They connect to your low-pressure utility natural gas pipe and boost pressure high enough to make gas flow through a flashback arrestor check valve and give you a hot flame on the torch.

- **Never run out of fuel**
- **Clean natural gas flame improves work quality**
- **Don't waste time changing empty cylinders**
- **Make flashback arrestors effective**

View instructional video at www.gesswein.com.

Fitted with regulator and flashback arrestor

G-TEC Torch Boosters – Natural gas is up to 10 times cheaper than acetylene and half the cost of propane.

For equal BTUs natural gas costs much less than either acetylene or propane, and because you are connected to the utility natural gas pipe you never have to replace empty cylinders.

Turn the Torch Booster on in the morning and off at the end of the day and that's all you need to do. Torch Boosters automatically supply the right amount of natural gas.

G-TEC boosts utility natural gas to 25 psi, then a natural gas regulator (sold separately) lowers pressure to between 3 and 7 psi, the recommended pressure for most bench torches. The TB-30 and TB-60 models provide the sustained higher pressures needed for casting torches. You can even boost the pressure to 10-15 psi to cast platinum with high-quality results. Platinum casters report better results when heating with natural gas; there is less stress on the metal, less porosity and an overall better quality cast.

Torch Boosters are whisper-quiet and can be installed right next to your bench. G-TEC Torch Boosters are certified by CSA International. OSHA and local fire codes require the use of combination flashback arrestor check valves to protect the gas meter from a torch flashback. The problem is that flashback arrestor check valves need at least 3/4 psi gas pressure to work properly, otherwise they block gas flow. With high pressure natural gas from a G-TEC Torch Booster there is enough pressure to make the flashback arrestor check valve work properly, and still provide a robust flame on the torch.

Quiet and easily maintained.

G-TEC Torch Boosters run in virtual silence and have a very small footprint. Can be easily installed by a licensed plumber in any facility.

Specifications:	TB-15	TB-30	TB-60
Capacity	1-3 bench torches	1-6 bench torches Or 1 casting torch	1-4 bench torches & 1 casting torch simultaneously
Electrical	110V, 15A	110V, 15A	110V, 15A
Gas Supply	¼–1 PSI	¼-1 PSI	¼–1 PSI
Gas Pressure	25 PSI	25 PSI	25 PSI
Gas Flow	15 cu.ft./hr.	30 cu.ft./hr.	60 cu.ft./hr.
W x D x H	12" x 16" x 12"	12" x 16" x 12"	20" x 18" x 16"
Net Wt.	48 lbs.	50 lbs.	75 lbs.

Description	Item#	Each
TB-15 Torch Booster, FOB Buffalo NY	**830-0817**	**$1,399.00**
TB-30 Torch Booster, FOB Buffalo NY	**830-0818**	**1,999.00**
TB-60 Torch Booster, FOB Buffalo NY	**830-0819**	**3,400.00**
Harris Natural Gas Regulator	**830-1014**	**220.00**
Smith Flashback Arrestors, set of 2, for regulator	**830-0812**	**75.00**
Smith Flashback Arrestors, set of 2, for torch	**830-0816**	**75.00**
Maintenance Kit	**830-0827**	**206.00**

For larger units and for assistance with New York City's special regulations, please call our Technical Department at 1-800-544-2043 (Mon-Fri, 9am-5pm EST) for additional information.

Please note: A natural gas regulator is required for G-TEC units. We recommend our #830-1014 Harris Natural Gas Regulator.

Airsep Oxygen Generators

The safe and efficient alternative to oxygen cylinders!

Equipped with their own air compressors, these generators require no special installation. Simply connect the oxygen outlet to your oxygen distribution system and the power cord to a grounded electrical outlet. Just turn the unit on and set your oxygen delivery flow.

A, B Onyx and Topaz Plus Oxygen Generators

AirSep Oxygen Generators provide instant oxygen on demand, eliminating the oxygen deliveries or the transportation and storage of pressurized, volatile oxygen cylinders on premises. Provides all the oxygen needed for most jeweler's torches.

- Generates 93% nominal oxygen concentration.
- Generate oxygen at half the cost of cylinders or liquid oxygen.
- Two models are available: the portable Onyx (on rollers) for one-person and smaller shops and the commercial grade Topaz *Plus* for production shops. Topaz Plus is wall mountable and includes oxygen delivery and cycle pressure gauges, and high temperature, ozone-resistant process tubing.
- Larger models available. Contact us for details.

Both the Onyx and Topaz Plus utilize molecular sieve to separate compressed air into nitrogen and oxygen, allowing the oxygen to pass through to your torch line. The molecular sieve is completely regenerative and will last indefinitely making AirSep the most user-friendly oxygen generator on the market. The generators require minimal regular maintenance, limited to cleaning the system's particulate filter and replacing filter pads.

CSA and CE approved. 1 year manufacturer's parts and factory labor warranty.

Specifications:	**Onyx**	**Topaz Plus**
Oxygen Output:	12 SCFH @ 9PSIG	17 SCFH @ 20 PSIG
Oxygen Purity:	93% Nominal	93% Nominal
Noise Level:	49dB	55dB
Operating Conditions:	40-120°F (4-49°C)	40-120°F (4-49°C)
Product Dew Point:	-100°F (-73°C)	-100°F (-73°C)
Gas Outlet:	1/4" NPT/B size Oxy. Adapter	1/4" NPT/B size Oxy. Adapter
Housing:	Plastic Enclosure	Durable Metal Enclosure
Dimensions:	15.7" x 14.5" x 28.5"	17.3" x 10" x 26.8"
Electrical:	120V, 60Hz, 1 Ph, 5A	120V, 60Hz, 1 Ph, 5A
Net/Ship. Weight:	51/60 lbs.	56/64 lbs.

Description	Item#	Each
A. AirSep Onyx	**830-0033**	**$1,385.00**
B. AirSep Topaz Plus	**830-0030**	**2,889.00**
Replacement Filter Pads - Onyx - Package of 5	**830-0035**	**8.00**
Replacement Filter Pads - Topaz Plus - Package of 5	**830-0032**	**5.90**

Larger models also available. Contact us for details.

A AirSep Onyx

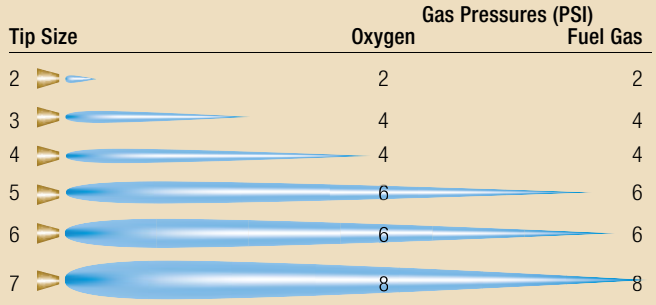
B AirSep Topaz Plus

All prices subject to change without notice.

The Little Torch™

When you pick up The Little Torch, you know immediately that you are holding a superbly balanced torch that will enable you to extend your skills far beyond all previous limits. Whether you are in the first stages of learning your craft or have mastered it completely, The Little Torch will open a new world of possibilities for you. Features a rugged aluminum alloy body that weighs only 1.5 ounces and a thin, flexible, lightweight hose that provides added maneuverability.

Offers unmatched versatility—can be used with several fuels, including acetylene, hydrogen, propane, propylene, MAPP and natural gas. Produces a perfectly controlled, completely stable flame hot enough to melt gold, silver, platinum, glass and even ceramic. Can also be used with special heating tips to melt up to 3 oz. of gold or silver. One year manufacturers warranty.



Flame drawings are not actual size. Each tip is capable of a variety of settings, with flame sizes larger and smaller than those shown.

Made in the USA

A

B

C

D

E

F

A, B The Little Torch™ Deluxe Sets

Each set includes The Little Torch handpiece, five brazing tips, 8' oxygen and 8' fuel gas twin hose with 9/16" connectors, two single-stage regulators (one for oxygen, one for fuel gas), one (empty) oxygen tank, one (empty) fuel gas tank and a carrier.

	Description	Item#	Set
A.	For Oxy/Acetylene, plastic carrier	**830-1020**	**$740.00**
B.	For Oxy/Propane, metal carrier with 5 lb. tank	**830-1018**	**695.00**

C. The Little Torch™ Medium Sets

Includes The Little Torch handpiece, 8' Oxygen and 8' fuel gas twin hose with 9/16" connectors and five brazing tips and two single-stage regulators (one for oxygen and one for fuel gas).

	Description	Item#	Set
C.	Medium for Oxy/Acetylene (MC tanks)	**830-1010**	**$370.00**
	Medium for Oxy/Acetylene (B tanks)	**830-1011**	**370.00**
	Medium for Oxy/Propane	**830-1015**	**370.00**

D. The Little Torch™ Starter Set

The starter set includes The Little Torch handpiece, 8' oxygen and 8' fuel gas twin hose with 9/16" connectors and five brazing tips.

Description	Item#	Set
Starter for Propane or Natural Gas	**830-1002**	**$135.00**

E. The Little Torch™ Set for Disposable Cylinders

Perfect for locations where larger compressed air tanks are not permitted. Includes The Little Torch handpiece, #5 tip, 8' oxygen hose, 8' fuel gas hose, preset oxygen regulator, preset propane regulator, wire stand for disposable oxygen and MAPP/LP cylinders and instruction manual. Disposable cylinders not included.

	Description	Item#	Each
E.	The Little Torch Set for Disposable Cylinders	**830-1245**	**$220.00**
	Replacement Oxygen Regulator	830-1027	49.95
	Replacement Propane Regulator	830-1029	50.95

F. The Little Torch™ Hose – 8 feet long

Available in connected Twin Line or individual Oxygen or gas hoses with connectors.

	Description	Item#	Set
F.	Twin Line (green and red) hose with connector	**830-1042**	**$60.80**
	Replacement Green (oxygen) hose with connector	830-1043	30.25
	Replacement Red (fuel gas) hose with connector	830-1044	30.25

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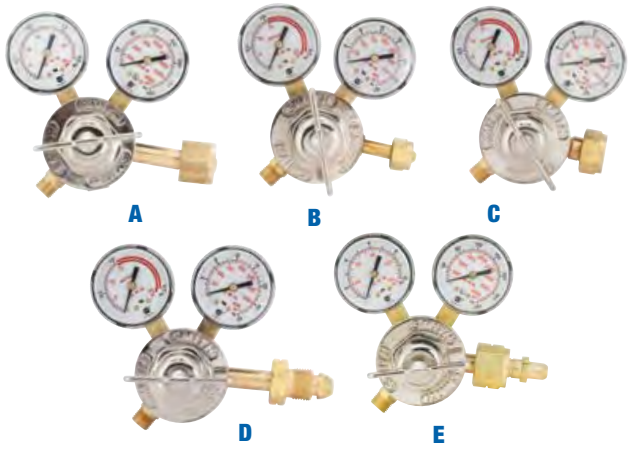
A-E Little Torch™ Regulators

For single torch use. Compact regulators provide accurate control of oxygen and acetylene or propane for welding, soldering, brazing and heating operations. Contain protective check valves and maintain uniform pressure. Easy-turning T-bars. Made in USA.

	Description	CGA Connection	Item#	Each
A.	For Oxygen	540	**830-1021**	**$119.00**
B.	For Acetylene MC Tank	200	**830-1022**	**119.00**
C.	For Acetylene B Tank	520	**830-1024**	**119.00**
D.	For Propane	510	**830-1023**	**119.00**
E.	For Hydrogen	350	**830-1016**	**127.50**

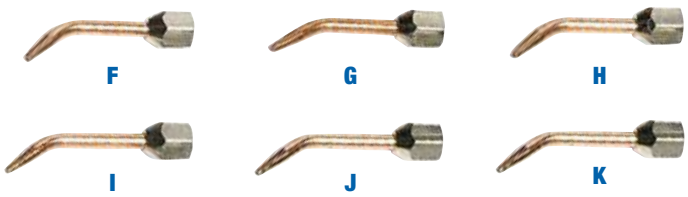


F-K Little Torch™ Brazing Tips

Because of their extraordinarily small orifices, tips 2 and 3 are fitted with synthetic sapphires to assure accurate performance and control.

	Tip	Oxygen Pressure (PSI)	Fuel Gas Pressure (PSI)	Item#	EACH Prices 1-2	3+
F.	2*	2	2	**830-1102**	**$25.00**	**$22.50**
G.	3	3	3	**830-1103**	**25.00**	**22.50**
H.	4	4	4	**830-1104**	**25.00**	**22.50**
I.	5	6	6	**830-1105**	**25.00**	**22.50**
J.	6	6	6	**830-1106**	**25.00**	**22.50**
K.	7	8	8	**830-1107**	**25.00**	**22.50**

**For acetylene or hydrogen only.*

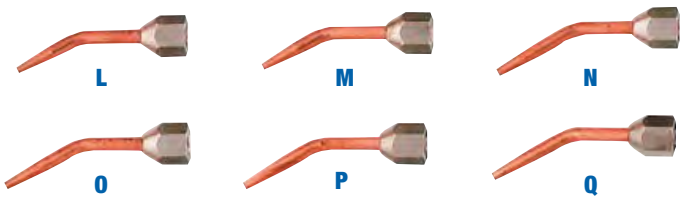


L-Q Uniweld Tips

Curved torch tips. Tip #2 (acetylene or hydrogen only) features a sapphire insert for superior flame control. Tips 3-7 are for use with all fuel gases: acetylene, hydrogen, propane, MAPP, propylene and natural gas.

	Tip	Oxy/Fuel PSI	Item#	Each
L.	2*	2/2	**830-1446**	**$22.50**
M.	3	3/3	**830-1447**	**22.65**
N.	4	4/4	**830-1448**	**22.65**
O.	5	6/6	**830-1449**	**22.65**
P.	6	6/6	**830-1450**	**22.65**
Q.	7	8/8	**830-1451**	**22.65**

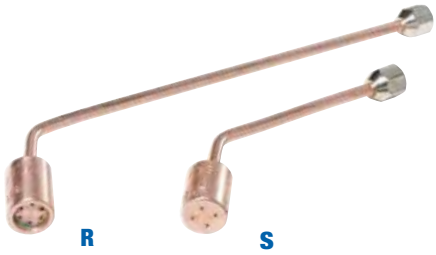
**For acetylene or hydrogen only.*



R, S Little Torch™ Heating Tips

For melting up to 3 oz. gold or silver and other work. These tips are specially designed with 4 orifices to produce 4 flames that come together to form one flame. Equal in size to tip 4. Maximum temperature is 3,600°F for propane, 6,000°F for all other fuels.

	For	Item#	EACH Prices 1-2	3+
R.	Propane or Natural Gas	**830-1116**	**$57.50**	**$51.75**
S.	All other fuels	**830-1115**	**44.15**	**39.74**



T. Holder for The Little Torch™

Holds The Little Torch at the perfect angle, making it handy and safe to use. Keeps up to six tips conveniently organized. Made with a sturdy cast base and heavy-duty (4mm) steel rod, this torch holder is virtually indestructible. Made in USA.

Description	Item#	Each
Holder for The Little Torch	**830-1307**	**$11.95**

U. Magnetic Torch Stand and Tip Organizer

Solid metal stand with weighted base. Includes holes drilled and numbered for tips 2-7. Just a twist of the wrist removes the torch from the magnet. Magnetic clip mounts easily on The Little Torch body (torch and tips sold separately). Measures 4½" high.

Description	Item#	Each
Magnetic Stand	**830-1250**	**$37.75**

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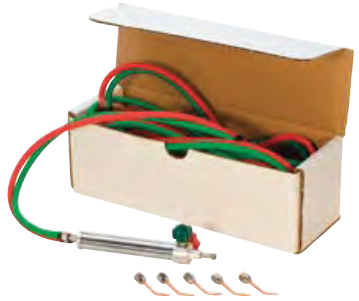
The Small Torch™ by Gentec

This lightweight, durable torch features user-friendly control knobs for quick, precise, one-handed flame adjustments and nickel-plated brass handle with stainless steel inner gas tubes for superior strength. Designed specifically for brazing and soldering at the bench as well as melting small amounts of metal. Provides stable, concentrated feather flames up to 6,000°F. Compatible with accessories listed below and other popular brands of accessories. Backed by a two-year manufacturer's limited warranty. UL approved. Made in China.

A



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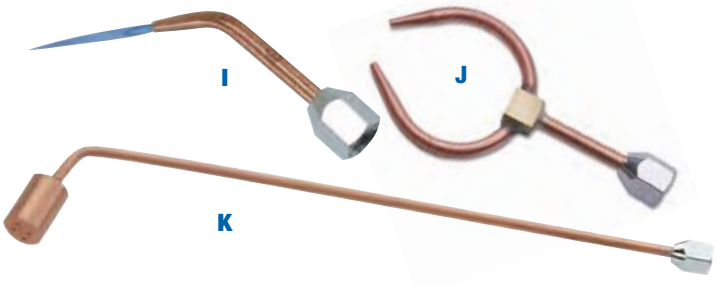

I J K

A. The Small Torch™ Caddy Sets

Each kit includes The Small Torch handle, torch tip(s) and 12' dual oxygen and fuel hose with "B" (9/16") fittings and adapter for "A" (3/8") fittings. Oxy/Acetylene Caddy Kit also includes regulators, a convenient carrying caddy and reusable oxygen and fuel tanks, Oxy/Propane Caddy Kit includes a convenient carrying caddy and oxygen tank (only for use with disposable propane tanks not provided). All tanks shipped empty.

	Description	Tips	Item#	Each
A.	Oxy/Acetylene Caddy Set	#2, 3, 4, 5, 6	830-1604	$525.00
	Oxy/Propane Disposable Tank Caddy Set	#3, 4, 5, 6, 7	830-1603	456.00

B. The Small Torch™ Basic Sets

Each Set contains the Small Torch with easy turn knobs, 5 tips and 12' oxygen and fuel hose.

	Description	Tips	Item#	Each
B.	Oxy/Acetylene Basic Kit (no regulators/tanks)	#2, 3, 4, 5, 6	830-1601	$129.00
	Oxy/Propane Torch Kit (no regulators/tanks)	#3, 4, 5, 6, 7	830-1600	129.00

The Small Torch™ Disposable Set - For propane and oxygen tanks (not shown)

Comes complete with Small Torch, #4 tip, 6' hoses and regulators.

Description	Tips	Item#	Each
Oxy/Propane Disposable Tank Kit (no regulators/tanks)	#4	830-1602	$190.50

C. The Small Torch™ Dual Hoses

Each includes flexible green (oxygen) hose and red (fuel) hose with 9/16" fittings.

	Description	Item#	Each
C.	6' Dual Hose	830-1605	$37.25
	12' Dual Hose	830-1606	49.95

D-H The Small Torch™ Regulators

Single-stage regulators manufactured using state-of-the-art equipment. Feature chrome-plated housing caps and bodies machined from class "A" brass bar stock. Single-stage, rear-entry design ensures safe, neat fit in caddy systems. Internal safety pressure relief valve and stem-type seat assembly. Imported.

	Description	Item#	Each
D.	Oxygen Regulator	830-1607	$84.95
E.	Propane Regulator	830-1608	84.95
F.	Acetylene Regulator	830-1609	81.95
G.	Oxygen Regulator for Disposable Tanks	830-1610	47.75
H.	Fuel Gas Regulator for Disposable Tanks	830-1611	47.75

I-K The Small Torch™ Tips

Rosebud melting tips are 6" long and multi-orifice tips for melting up to 3 oz. of gold, silver or bronze.

	Tips	Item#	Each
I.	2 (oxy/acetylene use only)	830-1614	$18.95
	3	830-1615	21.50
	4	830-1616	21.50
	5	830-1617	21.50
	6	830-1618	21.50
	7	830-1619	21.50
J.	Twin 3	830-1620	28.40
K.	Propane Rosebud Melting	830-1612	26.50
	Acetylene Rosebud Melting	830-1613	26.50

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A. Prest-O-Lite® 4-in-1 Torch Set

Operates on acetylene and air—no oxygen tank required. Includes the Prest-O-Lite torch handpiece with comfortable sure-grip handle, four torch tips for fine to heavy soldering and annealing jobs, an acetylene regulator for your B tank (not included, see p. 528 for acetylene B tank #830-0760) and 12½' of 3/16" hose. A special locking collar on the handpiece allows you to change tips in seconds and lock them securely in place without tools. Adjustable regulator provides steady gas delivery and stable flames.

Description	Item#	Each
Prest-O-Lite Torch Set with 4 Tips	**830-0736**	**$230.00**

Replacement Tips Size	Flame Size	Item#	Each
1A	Fine	830-0743	34.95
3	Light	830-0744	29.60
4	Medium	830-0747	32.20
5	Heavy	830-0748	37.85

B. SilverSmith™ Air-Acetylene Torch Kit

Delivers the ultimate in quality and flame control. Produces a soft, consistent flame. Ideal for silversmithing and for melting small amounts of metal for casting. Torch Set with one tip includes durable Nickel-plated brass handle with a precision #00 tip with jeweled orifice, 12' grade-R hose, acetylene regulator with CGA 520 fitting for acetylene B tank (not included, see p. 528 for acetylene B tank #830-0760) and torch lighter. Torch set with 3 tips (#00, #0, #1) available with or without empty acetylene B tank. Optional tips sold separately. UL listed. Made in USA.

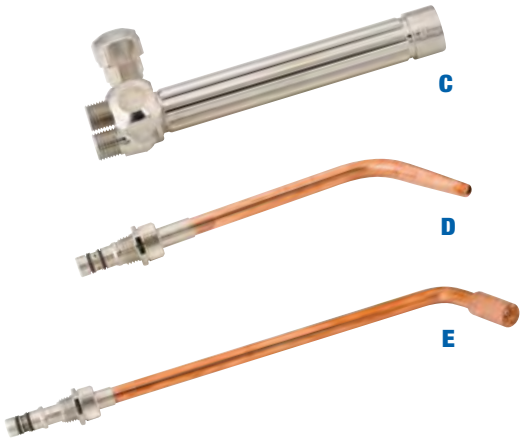
	Description	Item#	Each
B.	Torch Set with one tip #00, Regulator and Hose	**830-0732**	**$218.75**
	Torch Set with 3 Tips, Regulator and Hose and Tank	**830-0752**	**430.00**
	Torch Set with 3 Tips, Regulator and Hose	**830-0742**	**299.00**
	Replacement Torch Handle only	830-0998	66.50

Description	Orifice Size	Item#	Each
#4 Extra-Large Melting Tip	3/8"	**830-1465**	**$46.50**
#3 Large Melting Tip	1/4"	**830-1464**	**40.00**
#2 Medium Tip	3/16"	**830-1463**	**40.00**
#1 Small Tip	0.147"	**830-1462***	**40.00**
#0 Fine Tip	0.095"	**830-1461***	**44.25**
#00 Super-Fine Tip	0.066"	**830-1460***	**46.50**

Included in sets with 3 tips.

C-E Smith Casting Torch

Whether you need to melt 1 oz. or 12 oz., this versatile torch does the job. Consists of handle and your choice of two different heavy-duty copper 63.5°-angle tips (sold separately). Handle features rugged two-tube silver-brazed construction, forged brass butt and precision-machined brass head. Threaded and soldered inner tube for prevention of cross-leaking. Ball-type needle valves resist uneven wear and allow easy flame adjustment. Drag nut adjustment on knobs for preferred valve resistance. Measures 15/16" dia. x 7"L. Weighs 14 oz. Backed by a lifetime warranty. UL listed. Made in USA.



	Description	Item#	Each
C.	Torch Handle only (choose a tip below)	**830-0999**	**$201.00**

	Description	Melts up to	Oxy/Fuel PSI	Item#	Each
D.	Oxy/Propane Tip	3 oz. platinum	11/11	**830-1456**	**$74.00**
E.	Oxy/Acetylene Tip	12 oz. gold/silver	10/10	**830-1455**	**122.65**

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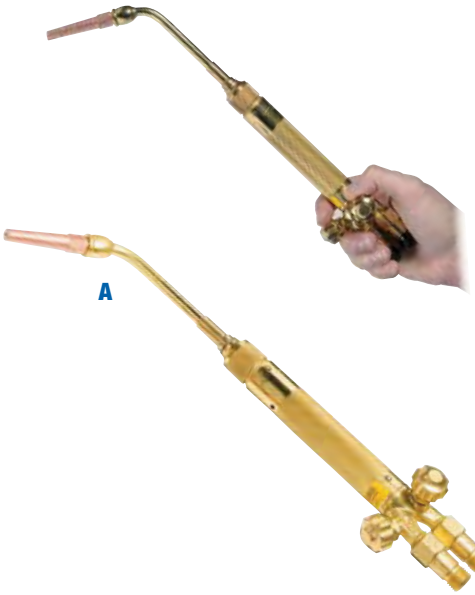


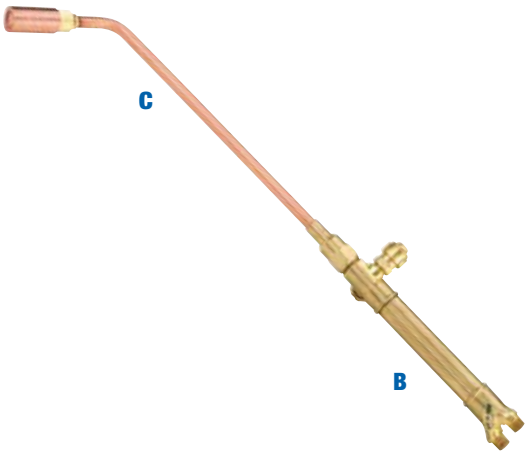
A. Harris® Melting Torch

Ideal for melting large amounts of gold, silver and other jewelry metals and is powerful enough to melt small amounts of platinum very quickly! Lightweight and well-balanced, only 15" long (including tip). Includes a check valve feature which prevents reverse flow and dangerous mixing of gases in the torch handle. This is a good-looking brass torch with easy-to-turn valves that remain securely in the position you set. UL listed. Torches include a #9 large copper melting tip.

	Description	Item#	Set
A.	Oxy/Natural Gas	**830-1405**	**$260.00**
	Oxy/Propane	**830-1390**	**250.00**

Tips Acet. and Hydrogen	Oxygen Pressure (PSI)	Fuel Gas Pressure (PSI)	Item#	Each
Tip #8	8	8	**830-1401**	**$33.00**
Tip #9	9	9	**830-1402**	**27.75**
Tip #10	10	10	**830-1403**	**27.75**

Tips Propane and Nat. Gas	Oxygen Pressure (PSI)	Fuel Gas Pressure (PSI)	Item#	Each
Tip #8N	30	4 oz. to 2 PSI	**830-1406**	**$24.35**
Tip #9N	35	4 oz. to 2 PSI	**830-1407**	**24.35**
Tip #10N	40	4 oz. to 2 PSI	**830-1408**	**29.95**
Set of 3 tips (8N, 9N, 10N)	–	–	**830-1409**	**74.40**
Rosebud Tip N	50	4 oz. to 2 PSI	**830-1420**	**32.15**



B, C Gentec Casting Torch

Casting torch for use with oxygen/propane or oxygen/natural gas. Features a high-quality forged brass handle with "tube-in-a-tube" design for high strength. Combine with Heating Tip to create a versatile casting, soldering and melting torch. Handle measures 6" long.

	Description	Item#	Each
B.	Casting Torch Handle only	**830-1621**	**$99.95**
C.	#6 Heating Tip with Tube	**830-1622**	**50.85**

D, E Original HOKE®-JEWEL Torch

For soldering, brazing, welding and melting. All parts are machined from solid brass stock and seamless brass tubing and completely nickel-plated. Tip tube (neck) is fixed and non-adjustable. Valves are easily and smoothly operated by fingertip. Uses standard ¼" hose (not included). Includes tips ranging in size from pinpoint to large brush. Measures 9" long. Adapter set includes six micro-tips which produce a nonoxidizing flame so less time is needed in the pickler. Not recommended for use with acetylene

	Description	No. of Tips	Item#	Each
	Natural Gas	3	**830-0221**	**$31.95**
D.	Propane/Butane	4	**830-0222**	**31.95**
	Acetylene	4	**830-0210**	**31.95**
	Artificial Gas*	4	**830-0220**	**31.95**
E.	Adapter Set for HOKE-JEWEL Torches	6	**830-1240**	**21.50**

Replacement Tips for Natural Gas and Oxygen Size	Max. Oxygen PSI	Flame Size	Item#	Each
35-1	2 to 3	Fine	830-1200	2.50
35-2	3 to 4	Medium	830-1205	2.50
35-3	4 to 5	Broad	830-1210	2.50

Replacement Tips for Propane or Butane and Oxygen Size	Max. Oxygen PSI	Flame Size	Item#	Each
1	2 to 4	Pinpoint	830-1220	2.50
2	2 to 4	Fine	830-1225	2.50
3	6 to 10	Medium	830-1230	2.50
5	15 to 20	Broad	830-1235	2.50

**Includes pilot that provides continuous flow of gas for quick ignition.*

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A. Harris® Check Valves for Regulators

Oxygen and fuel gas kept separately are not explosive. When mixed in a hose or regulator and then ignited, they can explode. Check valves prevent backup of gases into regulator so they cannot mix. Harris Check Valves may be installed on any regulator outlets with standard 9/16"-18 tpi. connections.

	Model	Item#	Each
A.	Oxygen	**830-1417**	**$18.20**
	Fuel Gas	**830-1416**	**18.20**

B-E Harris® Single-Stage Regulators with Check Valve

For general use when using one torch. Features all-brass construction to hold up even in corrosive atmospheres. Extra-large 2¾" pressure gauges so you can easily read PSI even when you are at a distance from the cylinder. Large 2¾" diaphragm ensures constant delivery pressure. A check valve is installed on all regulators. Oxygen Regulator is equipped with a Harris Surge Guard for protection against sudden overflow of oxygen into the regulator. Standard 9/16" connections. UL listed.

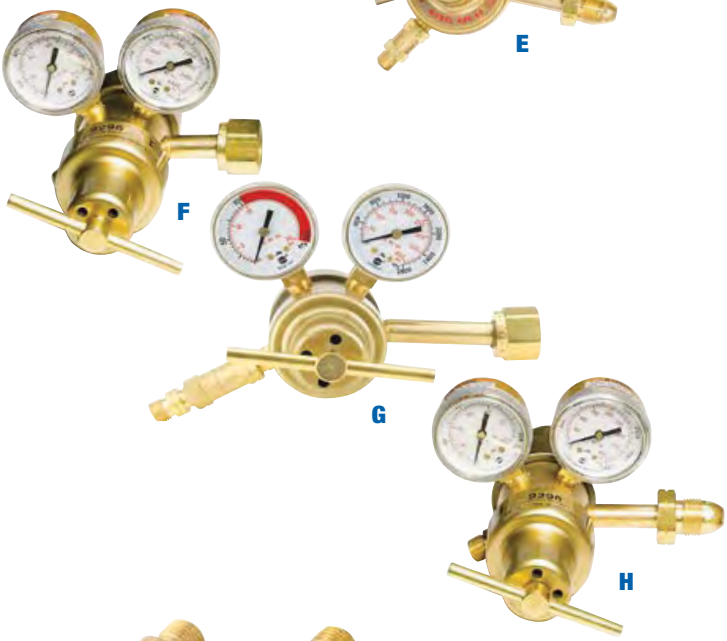
	Model	CGA	Item#	Each
B.	Oxygen	540	**830-1412**	**$197.00**
C.	Acetylene for MC and B tanks*	200, 520	**830-1432**	**95.45**
D.	Acetylene for large tanks	510	**830-1389**	**184.00**
E.	Propane	510	**830-1411**	**197.00**

**Includes adapter to convert MC regulator to B tank.*

F-H Harris® Two-Stage Regulators with Check Valve

Especially useful when operating more than one torch from the same cylinder. The first stage reduces the inlet gas pressure to relatively constant levels. The second stage further reduces the gas pressure and delivers the gas to the work precisely at the set point pressure. Helps to provide flame stability as the pressure levels change. Features chrome body with large, brass, easy-to-read 2¼" pressure gauges. All regulators include a check valve. Oxygen Regulator is equipped with safety Surge Guard to prevent sudden overflow of oxygen into the regulator. Standard 9/16" connections. UL listed.

	Model	CGA	Item#	Each
F.	Oxygen	540	**830-1415**	**$361.00**
G.	Acetylene	300	**830-1413**	**361.00**
H.	Propane	510	**830-1414**	**361.00**



I. Smith Flashback Arrestors for Torches

Flashback arrestors with built-in check valves for preventing flashback fires and reverse gas flows. Feature sintered stainless steel filter, high-quality brass construction and rugged corrosion-resistant case. Easy to install on any torch with standard B (9/16") fittings or regulator. Sold in sets of two: one for oxygen and one for fuel gas. UL listed.

	Description	Item#	Set of 2
I.	Flashback Arrestors, set of 2, for torch	**830-0816**	**$75.00**
	Flashback Arrestors, set of 2, for regulator	**830-0812**	**75.00**

J. Y-Connectors

For multiple torch hookups. Complete with shutoff valves. All connections 9/16".

	Model	Item#	Each
J.	Oxygen	**830-0780**	**$45.20**
	Fuel Gas	**830-0785**	**45.20**

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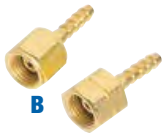
A. Tuline Hose

Prevents tangling of torch hoses. Consists of two color-coded reinforced hoses (green for oxygen and red for fuel gas) that are uniquely coupled to prevent tangling and can be separated by simply pulling them apart. ¼" I.D. Measures 25' long. Complete with fittings.

	Description	Fittings	Fuel Gas	Item#	Each
A.	Premium Grade T	9/16"	All fuel gases	**830-0805**	**$95.00**
	Economy Grade R	9/16"	Acetylene only	**830-0806**	**36.70**



B. Slip-On Hose Connectors

All consist of a nut with stem for use with standard I.D. hoses.

Description	Gas	Item#	Each
9/16" LH nut & stem for 3/16" I.D. hose	Fuel	**830-0352**	**$2.79**
9/16" RH nut & stem for 1/4" I.D. hose	Oxygen	**830-0353**	**2.31**
9/16" LH nut & stem for 1/4" I.D. hose	Fuel	**830-0354**	**2.31**

C. Low-Pressure Rubber Hose

Slip-on hose for Bunsen burners, compressors, vacuum pumps and more. *For low pressures only.* 3/16" I.D. Sold by the foot. Please specify minimum continuous length.

Description	Item#	Per Foot
Low-Pressure Rubber Hose	**816-2300**	**$2.40**

D, E Reinforced Rubber Hose

Available in Grade T red for propane, acetylene or natural gas. Also available in Grade R green for oxygen. ¼" I.D. Sold by the foot. Please specify minimum continuous length.

	Description	Item#	Per Foot
D.	Red Hose	**816-2351**	**$2.80**
E.	Green Hose	**816-2350**	**2.80**

F-I Tanks and Cylinders (empty)

	Description	Capacity	Overall Ht.	Item#	Each
F.	Oxygen Tank	60 cu. ft.	23½"	**830-0755**	**$195.85**
G.	Oxygen Cylinder	20 cu. ft.	18"	**830-0756**	**139.95**
H.	Acetylene B Tank	40 cu. ft.	23¼"	**830-0760**	**153.50**
	Acetylene MC Tank	10 cu. ft.	16"	**830-0761**	**87.00**
I.	Propane Cylinder #5	5 lbs.	12½"	**830-0766**	**113.00**

J. Carrier for Oxy/Acetylene Tanks

Makes it easy to move entire torch outfit from one place to another. Wheels and single handle provide excellent maneuverability. Built-in box holds wrench, extra tips, and other small accessories so that they are within easy reach. Hose wrap keeps lines neat. Holds our #830-0760 Acetylene B Tank and #830-0755 Oxygen Tank. Measures 19"W x 37½"H. Ship. Wt: 20 lbs.

Description	Item#	Each
Carrier for Oxy/Acetylene Tanks	**830-0750**	**$102.00**

K. Carrier for Oxy/Propane Tanks

Holds our #830-0766 Propane Tank and our #830-0756 Oxygen Cylinder. Measures approximately 26"H with handle. Includes bracket for storing torch hose.

Description	Item#	Each
Carrier for Oxy/Propane Tanks	**830-0751**	**$124.40**

L. Torch Wrench

A multi-use wrench for nuts on torches, regulators and tanks.

Description	Item#	Each
Torch Wrench	**830-0790**	**$15.50**

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A, B Lighters

Electric Torch Mate simply and automatically lights any torch—using only one hand. Rest the torch on the lighter's ignition switch, and small spark from the electrode immediately lights the torch. This handy benchtop accessory comes complete with two AA batteries. Torch Lighter produces a spark by friction, supplied with one flint.

	Description	Item#	EACH Prices 1-2	3+
A.	Electric Torch Mate	**830-0407**	**$34.30**	**$30.87**
B.	Torch Lighter	**830-0410**	**4.45**	**-**
	Flints, pkg. of 5	**830-0411**	**4.15**	**-**

A

B

C. Blazer Micro Torch

Built-in piezoelectric ignition is activated with one push. Gas flow is easily adjusted to provide a variety of flame sizes from a maximum length of about 3½" down to a pinpoint. The 26-gram fuel chamber provides heat up to 2,500°F for 90 minutes. Easy-to-grip size. Stores conveniently on a wide base. Unit can be refilled. Torch made in Japan.

Description	Item#	Each
Blazer Torch without refill	**830-0010**	**$61.60**
Replacement Butane Refill Cartridge, 9 fl. oz. Ⓢ	830-0012	5.70

Ⓢ *UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.*

C

D. Harris® Torch Tip Cleaners

Set of 13 tip cleaners with individual tip cleaner numbers and drill sizes embossed in case. Covers drill sizes 49 to 77.

Description	Item#	Each
Harris Torch Tip Cleaners	**830-1418**	**$17.99**

D

E, F Torch Holders

Convenient and safe way for hanging your torch when it is not in use. Mount anywhere on workbench and accommodate most torches except The Little Torch.

	Description	Length	Item#	Each
E.	Bracket-Type Holder	11"	**830-1305**	**$5.50**
	Short Bracket-Type Holder	3½"	**830-1301**	**7.30**
F.	Hook-Type Holder	12"	**830-1300**	**3.60**

E F

G. Soldering Glasses

Made of black lightweight plastic. Feature adjustable earpieces for comfortable fit and easily replaceable polycarbonate lenses. Lens #7 is approved by the Platinum Guild for platinum soldering. Lens #10 is used for casting. Lens #5 can be used for gold and silver. CE approved. Meet ANSI Z87.1 requirements.

	Description	Item#	Each
G.	Soldering Glasses with #5 Lens for Gold & Silver	**816-1784**	**$15.50**
	Soldering Glasses with #7 Lens for Platinum	**816-1785**	**15.75**
	Soldering Glasses with #10 Lens for Casting	**816-1786**	**15.70**

G

Tumblers

From finishing castings or small parts to removing burs and sharp edges on a few pieces or on thousands, Gesswein carries a tumbler to suit any application. Choose from:

Magnetic Finishing – Newer technology featuring fast centrifugal action to finish non-ferrous parts only. Small stainless steel pins (0.3 to 0.5mm in diameter) will polish the tiniest intricate details without lodging. Magnetic tumblers provide a uniform finish in a fraction of the time compared to vibratory or rotary tumblers. Cycle times are generally 30-45 minutes long.

Vibratory Finishing – Debur and finish small or large, detailed or plain parts to a uniform finish. Media moves from the edge of the bowl to the center in an ellipse, abrading and finishing in and around parts. More versatile than a rotary tumbler, Vibratory Tumblers can utilize both abrasive and polishing medias.

Barrel (Rotary) Finishing – The traditional method of tumbling updated to include easier loading and no leaks. Steel Shot is the preferred media which has the advantage of peening and work hardening the parts to a shiny finish. Generally lower operating costs than other methods of tumbling.

A

A. Stainless Steel Shot Pins – For Magnetic Tumblers

Rods in two diameters for reaching into and polishing the tiniest details and settings without lodging. All 5mm long. Blunt ends. 0.5mm is supplied with most magnetic tumblers, 0.3 mm is available for finely detailed parts.

	Diameter	Item#	Each
	0.5mm Shot, 0.5 lb.	**852-1094**	**$15.95**
	0.5mm Shot, 2.2 lbs.	**852-1097**	**55.00**
A.	0.3mm Shot, 0.5 lbs.	**852-1096**	**29.90**
	0.3mm Shot, 2.2 lbs.	**852-1099**	**116.75**

B

B. Magnetic Separator Gun – For Steel Shot

Quickly and easily separates metal media from parts—a great time-saver. Eliminates the tedious task of picking media off parts by hand. The gun comes with a collection bowl that holds the media until the job is completed. May be used dry or with media in water. Measures approximately 9" in length.

Description	Item#	Each
Magnetic Separator Gun	**852-0320**	**$105.50**

C

C. Burnishing Compound M – For Stainless Steel Shot

Burnishing Compound M for non-ferrous metals is a liquid burnishing compound for magnetic finishing. This product was specifically designed to keep the magnetic stainless steel pins clean and prevent formation of a "smut" that is often seen with this type of media in a magnetic process. Product can be used to provide cleaning/burnishing of metals such as gold, platinum, silver, brass, copper, aluminum and stainless steel. Product is a non-corrosive acidic mixture. Does not turn water black as others do! Sold by the gallon.

		EACH Prices	
Description	Item#	1	4+
Burnishing Compound M	**852-0885**	**$40.50**	**$36.45**

D

D. Burnishing Compound #44S – For Stainless Steel Shot

Specially formulated chemistry for use with stainless steel shot. Use just ½ tsp. per 6" diameter bowl in Magnetic Tumbler. Nontoxic, nonhazardous—can be disposed directly to sewer system. Supplied in 1 qt. plastic bottle.

		EACH Prices	
Description	Item#	1-3	4+
Burnishing Compound #44S	**852-1038**	**$28.00**	**$25.20**

E

E. Soap Powder for Magnetic Tumblers – For Stainless Steel Shot

Mild acid-based soap powder is specifically formulated for magnetic tumblers. It keeps stainless steel shot and jewelry clean.

	Description	Item#	Each
	3 lbs. Soap Powder	**852-1037**	**$48.00**
E.	1 lb. Soap Powder	**852-1039**	**24.50**

BESTBUILT Magnetic Tumblers

Each of these workhorses features a powerful AC motor with direct drive for unique whirling wave action that provides uniform tumbling results, heavy-duty plastic bowl with cover and 60-minute timer with auto-shutoff. All models include the exact amount of 0.5mm diameter stainless steel pins. Compound 44S recommended (see p. 530) for keeping pins clean. Made in Korea. Backed by a one-year warranty.

Model:	BB6	BB8	BB22	BB29	BB40-VS	BB100-VS
Dimensions W x H	6" x 6"	6¾" x 8"	7½" x 8½"	9" x 9"	10" x 10"	12" x 14"
Bowl Size (dia. x H)	3½" x 2¾"	4⅜" x 3⅛"	5⅛" x 4⅜"	5⅞" x 4⅜"	6½" x 4½"	7⅞" x 4½"
Ring Capacity	1-6	5-8	10-22	20-29	25-40	50-100
Power Output	15W	40W	90W	150W	175W	300W
Speed	0-1650rpm*	0-1580rpm*	0-2155rpm*	0-2335rpm*	0-3000rpm*	0-3200rpm*
Electrical	110V, 0.2A	110V, 1.2A	110V, 1.83A	110V, 2.4A	110V, 2.8A	110V, 3.2A
Net Wt.	12 lbs.	18 lbs.	22 lbs.	30 lbs.	34 lbs.	70 lbs.
Fixed Speed Item#	**852-0360**	**852-0361**	**852-0362**	**852-0372**	–	–
Each	**$249.00**	**$395.00**	**$695.00**	**$820.00**	–	–
Variable Speed Item#	**852-0364**	**852-0365**	**852-0363**	**852-0373**	**852-0374**	**852-0375**
Each	**$275.00**	**$450.00**	**$775.00**	**$895.00**	**$995.00**	**$1,795.00**
Repl. Bowl & Cover	852-0366	852-0367	852-0368	852-0369	852-0370	852-0371
Each	$50.00	$55.00	$65.00	$75.00	$85.00	$95.00

**Variable speed models only. Fixed speed models operate only at the top speed.*

BB6

BB8

BB22

BB29

BB40-VS

BB100-VS

Magnetic Tumblers

Feature compact, reliable construction, direct-drive, fan-cooled AC motors, 2-hour timers and auto-shutoff function. All units offer programmable controls for variable-speed and forward/reverse operation. Run ultra-quiet with fast cycle times. Each includes heavy-duty plastic bowl, cover and complete instructions. CMF-410 and 610 also come complete with stainless steel shot and small sample of burnishing soap. Made in Taiwan. Backed by a one-year warranty.

Model:	CMF-410	CMF-610	CMF-900	CMF-1200
Dimensions (W x D x H)	7" x 7" x 11"	10" x 10" x 14"	13" x 13" x 18"	16" x 16" x 20"
Bowl Size	4" dia.	6" dia.	9" dia.	12" dia.
Ring Capacity	12 ring	30 ring	100 ring	225 ring
Speed (Variable)	0-2,000rpm	0-2,000rpm	0-2,200rpm	0-2,200rpm
Pin Capacity	4 oz. (included)	8 oz. (included)	14 oz. (not included)	28 oz.(not included)
Ship. Wt.	17 lbs.	25 lbs.	55 lbs.	85 lbs.
110V Item#	**852-0352**	**852-0301**	**852-0342**	–
Each	**$695.00**	**$1,295.00**	**$1,840.00**	–
220V Item#	**852-0353**	**852-0302**	**852-0343**	**852-0345**
Each	**$785.00**	**$1,375.00**	**$1,975.00**	**$2,295.00**
Replacement Bowl	852-0319	852-0318	852-0344	852-0346
Each	$54.95	$64.95	$113.50	$144.50

CMF-410

CMF-610

CMF-900

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Vibratory Tumblers

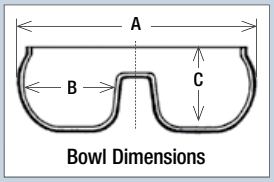
Made in the USA

Vibratory tumbling can dramatically reduce or even eliminate costly hand-finishing time and, at the same time, maintain the high-quality finish that you require on your parts. Parts are evenly distributed throughout a cascading media, producing an even, identical finish on each piece. There is never any distortion of your parts.

All of our tumblers are heavy-duty for continuous use. Each comes equipped with a drain and hose for flow-through system operation except model #5. Each unit is individually inspected prior to shipping and is backed by a one-year guarantee. Whether your polishing or deburring needs are for an occasional small quantity or for thousands of parts daily, Gesswein has a wide choice of top-quality vibratory tumblers for your exact application.

Specifications

Model	Working Capacity* (cu. ft./gals.)	Max. No. Ladies' Rings**	Vibrations per Min. (60Hz/50Hz)	Bowl Dimensions A	B	C
40	0.35/2.3	200	1,725/1,450	17"	4¼"	7"
25SS	0.25/1.875	125	1,500/1,250	14"	3½"	5¾"
18	0.15/0.9	90	2,000/1,700	12"	6"	5¼"
10	0.10/0.75	50	3,000/2,500	10"	3½"	5"
5	0.05/0.4	25	3,000/2,500	8"	3"	3¾"



Bowl Dimensions

Media Capacities

Vibratory Tumblers must be filled with the correct amount of media in order to achieve the proper tumbling action. Under filling will result in diminished performance of media. Overfilling, especially with Steel Shot, can strain the tumbler motor. Use the following chart as a guide. All media capacities are listed in pounds.

Model	Ceramic Light	Plastic Medias Blue	Green	Lt. Green	Dri-Shine I	III	Steel Shot
40	30	22	18	22	16	13	100
25SS	17	12	10	12	10	6	50
18	9	8	8	8	4	3	25
10	7	5	4	5	4	2.5	0
5	3.5	2.5	2.5	2.5	2	1.25	0

** Media plus parts. A proper ratio of media to parts (approx. 10 to 1) must be maintained in order to cushion the parts and protect them from striking each other.*

***Approximately 1" diameter.*

Stones not included.

A. Vibratory Tumbler #5

Ideal for small sample test batches as well as for finishing of small parts. Complete with bowl and cover. Will tumble approx. 25 average size ladies' rings. Bowl diameter is 8" with a .05 cu. ft. (3 pts.) capacity. Measures 9" overall height. Cannot be used with Flow-Through System. Made in USA.

	Bowl Dia.	Voltage	Item#	Each
A.	8"	115V, 50/60Hz	**852-0710**	**$97.50**
	8"	230V, 50Hz	**852-0700**	**118.00**
	Replacement Bowl & Cover		852-0905	22.50

B. TV-5 Stone Finishing Kit

TV-5 Stone Finishing Kit includes all you need to start finishing agate and similar hard stones (not recommended for soft stones): Vibratory Tumbler #5, extra bowl and four-step finishing media (100/120 grit silicon carbide for rough grinding, 700 grit silicon carbide for fine grinding, Iolox 50 for prepolishing and Raybrite TL for final polishing). Finishes 8–10 lbs. Made in USA.

	Description	Item#	Each
B.	TV-5 Stone Finishing Kit - 8" Bowl	**852-0715**	**$128.00**
	Replacement Bowl & Cover	852-0905	22.50

C, D Stone Finishing Kits

A variety of media to take stones from rough state to smooth, high polish. ASV Kit is for all stones, hard and soft. HSV Kit is designed for hard stones such as agate and jasper. These kits will polish 8-15 lbs. of stones.

	Kit	For Stones	No. of Medias	Item#	Each
C.	ASV	Hard & Soft	7	**852-1601**	**$44.75**
D.	HSV	Hard	4	**852-1600**	**32.95**

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A. Dri-Polisher Vibratory Tumbler

Made in the USA

The Dri-Polisher Vibratory Tumbler imparts a bright, high shine on smooth jewelry surfaces. Polishes bracelets, rings, earrings and medium to heavy chains. Comes complete with Dri-Shine III, a crushed cob media treated with red rouge, suitable for gold, gold alloys, silver and silver alloys. Easy to operate: just fill with media, insert jewelry and turn on. Use with dry medias only. Holds 60 small ladies' rings. Measures 10" dia. x 11½"H. Made in USA.

	Bowl Dia.	Voltage	Item#	Each
A.	10"	115V, 50/60Hz	**852-0746**	**$150.00**
	10"	230V, 1 Ph, 50Hz	**852-0749**	**158.00**
	Replacement Bowl & Cover		852-0747	43.95

A

B. Vibratory Tumbler #10

Our smallest heavy-duty tumbler will tumble 50 average size ladies' rings. Can be used with Flow-Through System. Bowl diameter is 10" with a .10 cu. ft. (2.6 qts.) capacity. Measures 15½" overall height. Ship. Wt. 14 lbs. Made in USA.

	Bowl Dia.	Voltage	Item#	Each
B.	10"	115V, 50/60Hz	**852-0720**	**$238.50**
	10"	230V, 1 Ph, 50Hz	**852-0701**	**158.05**
	Replacement Bowl & Cover		852-0915	87.50

B

C. Vibratory Tumbler #18

All the features of the larger tumblers in a midsized unit. Ideal for running small production lots. Strong enough to tumble 25 lbs. of steel shot. Will accommodate up to 90 average size ladies' rings. Flow-Through System (see p. 534) is recommended in order to keep parts clean and bright. Bowl diameter is 12" with a capacity of .15 cu. ft. (3.5 qts.). Measures 16" overall height. Ship. Wt. 13 lbs. Made in USA.

	Bowl Dia.	Voltage	Item#	Each
C.	12"	115V, 50/60Hz	**852-0751**	**$465.00**
	12"	230V, 1 Ph, 50Hz	**852-0752**	**475.00**
	Replacement Bowl & Cover		852-0917	199.50

C

D. Vibratory Tumbler #25SS

For use with all medias including steel shot. Designed with a heavy-duty drive and suspension system. Action is infinitely adjustable through a full range of speed: from a gentle cascade for delicate parts up to a brisk, aggressive tumbling action for rough castings. Will tumble 125 average size ladies' rings. Bowl diameter is 14" with a capacity of .25 cu. ft. (7.5 qts.). Tumbler #25SS includes a discharge port for easy unloading. Measures 16" overall height. Ship. Wt. 22 lbs. Made in USA.

	Bowl Dia.	Voltage	Item#	Each
D.	14"	115V, 50/60Hz	**852-0723**	**$555.00**
	14"	230V, 1 Ph, 50Hz	**852-0722**	**595.00**
	Replacement Bowl & Cover #25SS		852-0919	233.50

D

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Made in the USA

A. Vibratory Tumbler #40

Adjustable counterweights allow you to control the amplitude (strength of vibration) from a gentle cascade for delicate parts up to a brisk, aggressive tumbling action for rough castings. Includes a 17" diameter, cross-linked polyethylene bowl with a .35 cu. ft. (2.3 gals.) capacity. Will tumble 200 average size ladies' rings. To run Steel Shot, use the optional Shot Bowl, which holds 100 lbs. of shot plus parts. Tilt version features a hinged bowl with handle to allow forward tilting and easy removal of parts and media. Measures 24" overall height. Ship. Wt. 51 lbs. (Tilt version 56 lbs.) Made in USA.

	Bowl Dia.	Voltage	Item#	Each
A.	17"	115V, 50/60Hz	**852-0726**	**$930.00**
	17"	230V, 1 Ph, 50Hz	**852-0727**	**1,135.00**
	17"	115V with Tilt	**852-0728**	**1,168.00**
	17"	230V with Tilt	**852-0729**	**1,268.00**
	Replacement Bowl & Cover		852-0922	240.50
	Optional Steel Shot Bowl & Cover		**852-0918**	**325.50**

A

B. Flow-Through Systems

A Flow-Through System automates your Vibratory Tumbler by automatically dispensing a solution of water and burnishing compound into the tumbler bowl. All plastic, ceramic and steel medias require a slow, steady drip of water and burnishing compound in order to keep parts and media clean, cool and lubricated and to assure a bright, clean finish on the parts. Upper container of Flow-Through gravity-feeds solution into the tumbler bowl by means of an adjustable needle valve. Spent water drains out of tumbler into lower container. An integral 0-5 hour timer/outlet box allows Tumbler to be plugged into the Flow-Through base. Timer can also be bypassed for continuous operation. Complete with two containers for solution and a heavy-duty steel base with brackets to lock Tumbler in place. Base raises Tumbler to convenient working height. Ship. Wt. 65 lbs. Made in USA.

	Description	Item#	Each
B.	For Tumblers #10/#18/#25, 115V, 50/60Hz	**852-0932**	**$399.50**
	For Tumblers #10/#18/#25, 230V, 50Hz	**852-0933**	**465.00**
	For Tumblers #40/#75, 115V, 50/60Hz	**852-0937**	**540.00**
	For Tumblers #40/#75 w/o timer, 230V, 50Hz	**852-0934**	**625.00**
	Replacement Buckets for Flow-Through #10/#25*	852-0936	37.50

**Includes both upper and lower buckets.*

B

C. Separating Screens

Molded plastic 16" diameter pans with square holes for separating media from parts. Fit on top of bucket. Made in USA.

	Description	Item#	Each
	Media Screen, 1/4" sq. mesh	**852-0893**	**$21.50**
	Media Screen, 3/8" sq. mesh	**852-0894**	**21.50**
	Media Screen, 1/2" sq. mesh	**852-0895**	**21.50**
	Media Screen, 3/4" sq. mesh	**852-0897**	**21.50**
	Media Screen, 1" sq. mesh	**852-0898**	**21.50**
	Bucket only	**852-0899**	**25.25**
C.	Set of all five media screens plus bucket	**852-0901**	**110.95**

C

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A. Steel Shot Compound #50 – For Carbon Steel Shot

Specially designed for Carbon Steel Shot, this burnishing compound contains a rust preventative to keep your shot (and jewelry) clean and bright. A unique feature of Compound #50 is that it may be used to protect your shot from rust and corrosion after tumbling. Simply empty excess water and add Compound #50 directly to shot. Compound #50 leaves a protective coating you can feel. Your shot is protected for weeks at a time without storing it underwater! Sold in quart containers. Not recommended for use with Stainless Steel Shot.

Qty.	Item#	EACH Prices 1-3	4+
1 quart	**852-1033**	**$18.50**	**$15.73**

A

B. Burnishing Compound 70L – For Carbon Steel Shot

For use with Carbon Steel Shot tumbling. Contains an excellent rust preventative that can also be used with other media when workpieces are in danger of rusting. Also for steel shot storage. Not recommended for use in rubber-lined barrels or with Stainless Steel Shot.

	Qty.		Item#	EACH Prices 1	2+
B.	1 quart	$	**852-1030**	**$14.95**	**$11.96**
	1 gallon	$	**852-1034**	**48.50**	**-**

$ *UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.*

B

C. Cutting/Burnishing Soap Liquid B – For Cutting Media

Excellent viscous soap for all of our cutting media. Resists formation of insoluble soap scum. Contains a rust preventative and can be used with Carbon Steel Shot. Recommended for Flow-Through Systems, in which powders are not suitable. Supplied with all Metal Finishing Sets. Not recommended for use with Stainless Steel Shot.

	Qty.	Item#	Each
C.	1 pint	**852-0875**	**$8.25**
	1 gallon	**852-0880**	**47.50**

C

D. Soap Detergent Powder for Rotary Tumbling

For Carbon Steel Shot

Gesswein Soap Detergent Powder acts as a lubricant as well as a cleaner. 3 lb. jar. Recommended for use with Carbon Steel Shot. Not for use with Stainless Steel Shot. Not recommended for use in Flow-Through Systems.

Qty.	Item#	Each
3 lb. jar	**852-1250**	**$29.95**

D

E, F Soap Powder A – For Cutting Media

Recommended for fine finishing and burnishing brass, bronze and similar materials with plastic and ceramic media. This soap has grease cutter for oil-coated workpieces. Not for use with Stainless Steel Shot. Not recommended for use in Flow-Through Systems.

	Qty.	Item#	Each
E.	8 oz.	**852-0865**	**$7.35**
F.	1 lb.	**852-0870**	**10.50**

E F

G. Compound 20L – For Cutting Media

Concentrated, all-purpose liquid compound for all cutting media. Specifically designed for tumbling systems to condition water, clean and lubricate plastic and ceramic media and parts, and suspend grit. Not for use with Stainless Steel Shot.

	Qty.	Item#	EACH Prices 1-3	4+
G.	1 quart	**852-1020**	**$9.65**	**$8.69**
	5 gallons (ship. wt: 47 lbs.)	**852-1021**	**135.00**	**-**

G

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A

A. Metal Finishing Sets for Vibratory Tumbling

There isn't a better or more complete set of everything you need to handle most of your vibratory finishing needs for raw castings and most jewelry parts. Our Metal Finishing Sets include a complete supply of our three most popular medias—Green and Light Green Plastic Pyramids and Dri-Shine III—plus a supply of Burnishing Soap B. Use Green Pyramids (below) for first cut, Light Green Pyramids (below) for second cut and Dri-Shine III (p. 537) for a bright, high finish on gold and yellow metals. A complete tumbling cycle takes an average of 24 hours—5 hours with Green Pyramids, 3 hours with Light Green Pyramids, and 16 hours with Dri-Shine III.

For Tumbler	Item#	Pkg.
#5	852-0830	$40.90
#10	852-0835	72.90
#25SS	852-0838	169.00
#40	852-0841	249.00

B

B. Ceramic Media for Light Bur Removal

Efficient, long-life aluminum oxide in a hard ceramic bond for light bur removal and smoothing of rough castings. Deburs both soft and hard metals such as aluminum and steel. 30° ends reach into grooves, corners and openings. Density: 100 lbs. per cu. ft. Shape: 30° cylinders, 5/16" x 9/16".

Qty.	Item#	Pkg.
5 lbs.	852-0432	$18.00
10 lbs.	852-0433	32.00

C

C. Blue Plastic Pyramids

Aluminum oxide (approx. 220 grit) in a plastic bond. Aggressive cutting media with good but minimum stock removal. Excellent as a first cut-down step for rough castings, stampings, etc. More aggressive than Green Media. Density: 62 lbs. per cu. ft. Shape: pyramid, 1/4".

Qty.	Item#	Pkg.
5 lbs	852-0435	$26.95
10 lbs.	852-0436	48.95
50 lbs.	852-0437	210.95

D

D. Green Plastic Pyramids

Plastic bond impregnated with fine silica (approx. 320 grit). Provides a light cutting action. Often used as a first cut-down step for delicate and intricate parts, for castings, and for removing sharp edges on stampings. Leaves a smooth, matte finish. Included in all Metal Finish Sets. Density: 56 lbs. per cu. ft. Shape: pyramid, 1/4".

Qty.	Item#	Pkg.
5 lbs.	852-0438	$27.50
10 lbs.	852-0439	53.00
50 lbs.	852-0440	250.00

E

E. Light Green Plastic Pyramids

Plastic bond with super fine silica (approx. 400 grit). Provides an extra-fine cutting action for smoothing surfaces. A prepolish media that leaves a very smooth, matte finish ready for the final polish. Included in all Metal Finish Sets. Density: 62 lbs. per cu. ft. Shape: pyramid, 1/4".

Qty.	Item#	Pkg.
5 lbs.	852-0441	$29.95
10 lbs.	852-0442	53.95
50 lbs.	852-0443	230.95

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A. Dri-Shine I

Crushed walnut shells with red rouge. Excellent for gold and other metals. Imparts a rouge powder to the surface of the workpiece, which helps to prevent tarnish. Density: 35 lbs. per cu. ft. Shape: irregular particle, 2mm. Made in USA.

Qty.	Item#	Pkg.
5 lbs.	**852-0444**	**$12.95**
10 lbs.	**852-0445**	**22.95**
50 lbs.	**852-0446**	**89.95**

A

B. Dri-Shine III

Crushed corncob with stain-free rouge. Our most versatile formula for obtaining final finish on gold and other metals. A clean media which leaves no residue. Polishes only—does not remove metal. Run dry for 16 to 48 hours to achieve a bright luster that is close to a hand-buffed finish. Recharge as needed with Simichrome Polish (see p. 107). Included in all Metal Finish Sets. Density: 30 lbs. per cu. ft. Shape: irregular particle, 2mm. Made in USA.

Qty.	Item#	Pkg.
5 lbs.	**852-0447**	**$12.95**
10 lbs.	**852-0448**	**23.95**
50 lbs.	**852-0449**	**99.95**

B

See page 532 for Media Capacity Chart.

C. Dri-Shine VII

Dri-Shine VII is crushed, finely graded nutshell media precharged with enhancers for a bright final finish. Recharge every four to six cycles with Dri-Shine VII Recharger.

Description	Item#	Each
C. Dri-Shine VII, 5 lbs.	**852-0450**	**$43.45**
Dri-Shine VII Recharger, 1 lb.	**852-0451**	**25.25**

C

D. Ground Cob

High quality, pure refined ground cob. For drying jewelry parts. Absorbs moisture and prevents water stains. Made in USA.

Qty.	Item#	Each
3 lb. Box	**812-0800**	**$6.80**
40 lb. Bag	**812-0700**	**54.25**

D

E. Tumble Finishing for Handmade Jewelry: Mass Finishing on a Small Scale – 4th Edition, *By Judy Hoch*

This handbook shows jewelers how to save time and money while mass finishing handmade jewelry. Provides descriptions of basic equipment and supplies, including rotary and vibratory tumblers, magnetic and centrifugal disc finishers, medias and compounds. Helps readers choose the right process for each application, ensuring optimal results. Passes along the author's firsthand knowledge about preventing disasters and solving problems, all in an easy-to-read informal style. Contains black-and-white photos. A great book for novices. Softcover, 47 pages.

Description	Item#	Each
Tumble Finishing for Handmade Jewelry - Book	**811-0041**	**$15.00**

E

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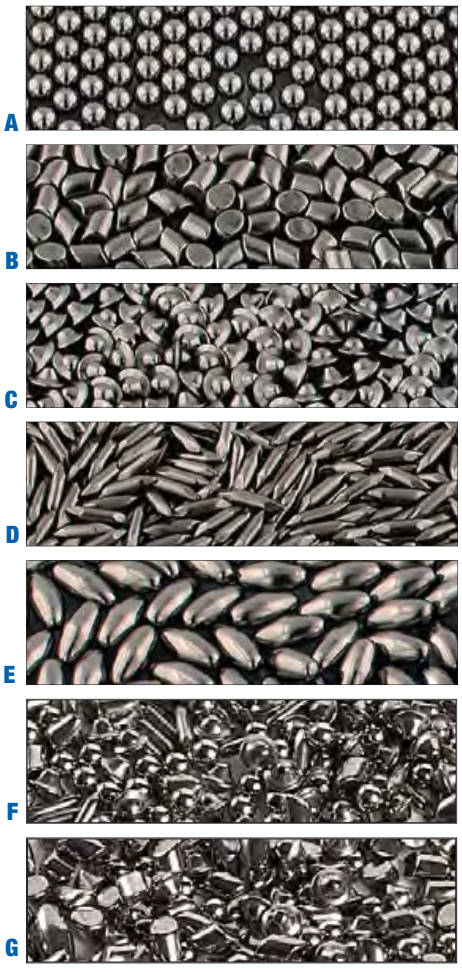

A-G Steel Shot – Small shapes for intricate burnishing.

Media for rotary (barrel) and vibratory tumblers. Burnishes your jewelry to a bright high luster without scratching. Corrosion-resistant stainless steel shot requires no special rust inhibitors or cleaners. Economical carbon steel shot requires rust-preventive compounds for use and storage. Available in packages of individual shapes and two mixtures: rotary and vibratory. Rotary mixture works in rotary tumblers. Contains 20% round balls, 40% diagonals, 20% ball cones and 20% pins. Vibratory mixture works in vibratory tumblers. Contains 40% diagonals, 30% ball cones, 20% round balls and 10% oval balls. Note: 2 lb. packages have ½ lb. of each shape. Density: 330 lbs. per cu. ft.

Description	Pkg. Size	Stainless Item#	Each	Carbon Item#	Each
A. Round Balls, 1/8"	2 lbs.	**852-1071**	**$55.00**	**852-1045**	**$16.25**
	10 lbs.	**852-1080**	**245.00**	**852-1040**	**69.00**
B. Diagonals, 1/8"	2 lbs.	**852-1072**	**39.90**	**852-1046**	**24.00**
	10 lbs.	**852-1079**	**179.00**	**852-1041**	**120.00**
C. Ball Cones, 1/8"	2 lbs.	**852-1073**	**44.00**	**852-1047**	**24.00**
	10 lbs.	**852-1078**	**195.00**	**852-1042**	**110.00**
D. Pins, 1/16" x 9/32"*	2 lbs.	**852-1074**	**86.00**	**852-1048**	**48.00**
	10 lbs.	**852-1077**	**395.00**	**852-1043**	**210.00**
E. Oval Balls, 5/32"	2 lbs.	**852-1075**	**38.95**	**852-1049**	**24.00**
	10 lbs.	**852-1076**	**173.00**	**852-1044**	**120.00**
Pre-Mix For:	**Pkg. Size**	**Stainless Item#**	**Each**	**Carbon Item#**	**Each**
F. Rotary	2 lbs.	**852-1086**	**$57.00**	**852-1052**	**$27.00**
	10 lbs.	**852-1085**	**245.00**	**852-1050**	**130.00**
G. Vibratory	2 lbs.	**852-1087**	**44.00**	**852-1051**	**29.00**
	10 lbs.	**852-1090**	**190.00**	**852-1070**	**95.00**

**Not recommended for use in Vibratory Tumblers.*

H. Soap Powder – For Steel Shot Tumbling

Formulated for use with carbon steel shot in rotary tumblers, these powders are nonhazardous and lighter in weight than liquids, reducing shipping costs.

- Compound #750 is designed to clean shot that has darkened due to oxidation. Contains a rust inhibitor that protects shot during storage.
- Compound #910 is used during tumbling to keep shot clean and to brighten gold and silver jewelry. Recommended for use in a rotary tumbler, barrel tumbler or vibratory tumbler with flow-through system (premix powder in water for flow-through system). Mixing ratio: 2-3 oz. powder per gallon of water.

Description	Qty.	Item#	Each
H. Compound #750	5 lbs.	**852-1291**	**$19.50**
	50 lbs.	**852-1290**	**180.00**
Compound #910	5 lbs.	**852-1296**	**22.95**
	50 lbs.	**852-1295**	**199.95**

I. Magnetic Separator Gun – For Steel Shot

Quickly and easily separates metal media from parts—a great time-saver. Eliminates the tedious task of picking media off parts by hand. The gun comes with a collection bowl that holds the media until the job is completed. May be used dry or with media in water. Measures approximately 9" in length.

Description	Item#	Each
Magnetic Separator Gun	**852-0320**	**$105.50**

J. Earring Post Protectors

These silicone rubber sleeves protect ear posts when setting, tumbling or plating. Sold by the gross (144 each).

Description	Item#	GROSS Prices 1-49	50+
Earring Post Protectors	**852-1155**	**$3.49**	**$2.62**

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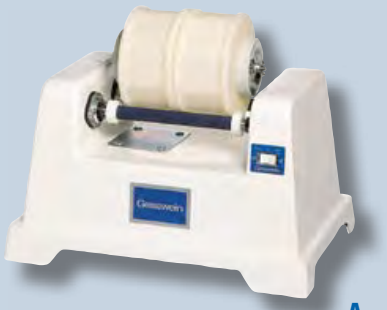
A, B Motorized Rotary Tumblers

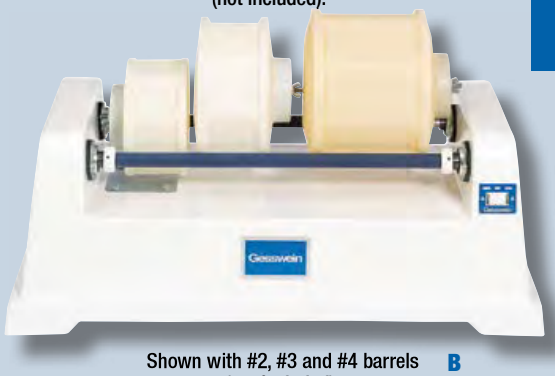
Rotary tumbling is an ideal polishing method for both gold and silver.

Our high quality rotary tumblers have been designed for heavy-duty use as well as for flexibility, with interchangeable barrels of different sizes. Each model features a high/low speed switch for a choice of aggressive or milder tumbling action. All barrels are constructed of tough, heavy-duty plastic. Leakproof, plug-type lid is located on side of barrel for easy access. Barrels have no linings to corrode or rust. You'll save time and money on expensive relining charges.

Barrels are available in 5 capacities from .02 to 1 cu. ft., but not all barrels can be used on every tumbler. Our rotary tumblers are sold without barrels; this way, you can choose only the barrels that will meet your specific requirements. See Rotary Tumbler Barrel Chart (below) for restrictions. All units listed are 110V, 6A, 690W, 60Hz. Made in USA.



Shown with two #2 barrels (not included). A



Shown with #2, #3 and #4 barrels (not included). B

Motorized Rotary Tumblers (barrels not included)

Style	A. Mini 2-Bar	B. 2-Bar
Dimensions (without barrels)	23½"L x 16"W x 13"H	36"L x 19"W x 13"H
Length of rotary bars	9¼"	24"
Distance between bars	4½"	7½"
Ship. Wt.	43 lbs.	63 lbs.
Item#	**852-0102**	**852-0100**
Each (base only, no barrels)	**$785.00**	**$985.00**

220V, 50Hz and 220V, 60Hz available by special order.

Rotary Tumbler Barrels (shown on tumblers above)

Include aluminum lids with black rubber seal and wing-nut for leak-free tumbling.

Style	#1	#2	#3	#4	#6
Capacity/Steel Shot Capacity*	.02 cu. ft./3 lbs.	.12 cu. ft./15 lbs.	.2 cu. ft./30 lbs.	.5 cu. ft./50 lbs.	1.0 cu. ft./150 lbs.
Dimensions (W x dia.) Barrel Opening (dia.)	4¾" x 4¾"/3"	4⅜" x 8¼"/4"	7" x 10"/4"	10½" x 10¾"/4"	15" x 16"/7"
RPMs, low/high	90/127	52/80	40/56	38/53	25/40
Max. on Mini 2-Bar/Max. on 2-Bar	2/0	2/3	1/3	1/2	0/1
Item#	**852-0120**	**852-0121**	**852-0125**	**852-0130**	**852-0135**
Each	**$51.00**	**$85.50**	**$105.00**	**$134.00**	**$236.00**

****The amount of shot listed fills each barrel about 50%. Optimal working capacity of each barrel should be approximately 60-65% full, including shot and jewelry items.***

C. Auto-Reversing Rotary Tumbler

This tumbler allows you to see the tumbling process in action without having to open the barrel. Features auto-reversing function for thorough processing and separate controls for cycle speed and duration. Holds up to 30 rings. Easy to use: fill barrel to roughly 50% capacity with your choice of steel shot, add water to roughly 75% capacity, add 1ml of cleaning or polishing compound, place jewelry in barrel and run tumbler. Remove jewelry from barrel when done and rinse with water. Capacity: 4½ lbs. Electrical: 120V, 5A, 25W, 50/60Hz. Measures 10⅞"W x 9⅞"D x 11⅞"H with 8" dia. x 7½"W clear barrel that has a 4" opening. Weighs approx. 17½ lbs. Made in Taiwan.

C

	Description	Item#	Each
C.	Auto-Reversing Rotary Tumbler	**852-0110**	**$495.00**
	Replacement Barrel	852-0112	155.00

D-F Economy Rotary Tumblers – Three sizes from which to choose!

Each of our economical rotary tumblers has a sturdy steel base, continuous-duty fan-cooled motor with overload protection, and watertight black rubber barrel with snap-on lid. All 3 sizes are perfect for rock tumbling and for tumble polishing jewelry with steel shot. All are 115V, 1/75 HP, .54A, 60Hz.

F

E

D

	Tumbler	# of Barrels	Barrel Capacity (Shot + Parts)	Barrel Shape	Item#	Each
D.	Mini-Econo	1	3 lbs.	Round	**852-0020**	**$120.00**
E.	Dual-Econo	2	3 lbs. per barrel	Round	**852-0025**	**145.00**
F.	Large-Econo	1	12 lbs.	Hexagonal	**852-0050**	**219.00**
	Replacement Barrel Large-Econo		-		852-0500	130.00
	Replacement Barrel for Mini or Dual				852-0530	27.50

All prices subject to change without notice.

Supra® Swiss High-Precision Tweezers

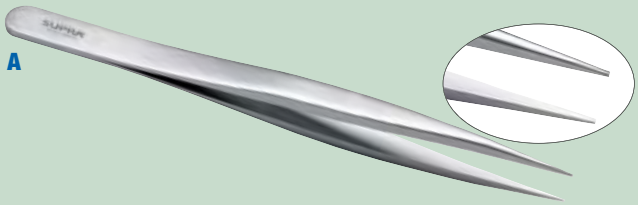
Handcrafted to perfect tip symmetry and balance, polished edges, superior no-scratch/anti-glare satin finish. Many styles and materials are available for the special needs of industry, jewelers, watchmakers, electronic and medical device manufacturers.

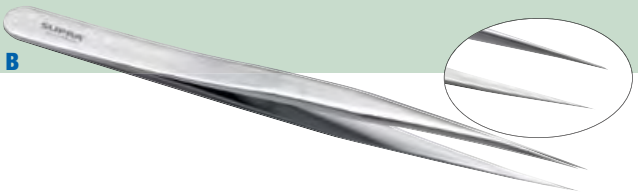
SA = Stainless Steel Anti-magnetic. Good corrosion resistance. The alloy is low carbon and contains 16.5% to 18.5% chromium plus nickel and molybdenum.

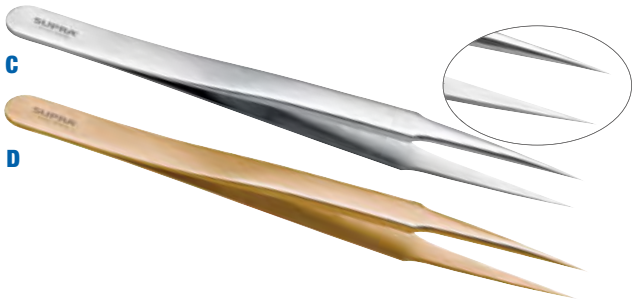
NC = Super Alloy. SIX times harder than anti-magnetic Stainless Steel these premium tweezers have high shape retention characteristics and are especially high corrosion resistance. Ni-Cr-Mo composition, fully non-magnetic and can be used up to 800°C.

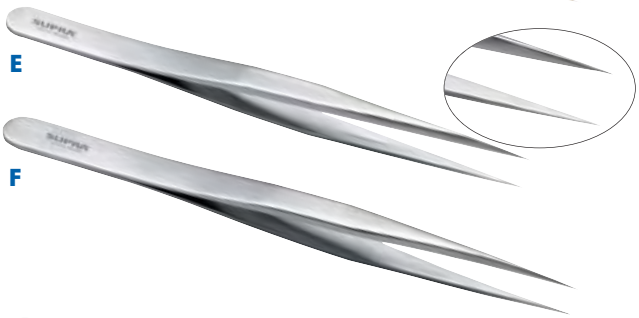
BR = Brass. Especially useful for handling scratch-sensitive mechanical parts such as watch components, magnets, etc. Non-magnetizable with good to excellent corrosion resistance.

C = Carbon Steel. Our cutting tweezers retain sharpness with these heat treated blades. Used in Electronics, Jewelry and Watchmaking. Made in Switzerland.









A. Style #00

Strong, flat edges, thick tips.

Material	Length	Item#	Each
SA - Stainless Steel	120mm (4¾")	**195-1176**	**$21.50**

B. Style #1

Strong, straight, fine tips.

	Material	Length	Item#	Each
B.	SA - Stainless Steel	120mm (4¾")	**195-1160**	**$21.95**
	NC - Super Alloy	120mm (4¾")	**195-3263**	**36.65**

C, D Style #2

Flat, sharp, fine tips.

	Material	Length	Item#	Each
C.	SA - Stainless Steel	120mm (4¾")	**195-1162**	**$21.95**
D.	BR - Brass	120mm (4¾")	**195-1187**	**31.35**

E, F Style #3C and #3

Very sharp, fine tips.

	Material	Length	Item#	Each
E.	3C SA - Stainless Steel	110mm (4¼")	**195-1164**	**$21.95**
	3C NC - Super Alloy	110mm (4¼")	**195-3265**	**36.65**
F.	3 SA - Stainless Steel	120mm (4¾")	**195-1166**	**21.95**
	3 NC - Super Alloy	120mm (4¾")	**195-3267**	**36.65**

G, H Style #4

Extra fine tips.

	Material	Length	Item#	Each
G.	SA - Stainless Steel	110mm (4¼")	**195-1168**	**$24.80**
H.	BR - Brass	110mm (4¼")	**195-1169**	**34.00**

I. Style #5

Extra fine tips, superior finish.

	Material	Length	Item#	Each
I.	SA - Stainless Steel	110mm (4¼")	**195-1170**	**$26.95**
	NC - Super Alloy	110mm (4¼")	**195-3269**	**41.55**

J. Style #7

Very fine, curved.

	Material	Length	Item#	Each
J.	SA - Stainless Steel	115mm (4½")	**195-1172**	**$20.90**
	NC - Super Alloy	115mm (4½")	**195-3273**	**42.90**

Supra® Swiss Tweezers (continued)

A. Style #AML.BR

Precision brass tweezers anti-sparking with mirror polished tips.

Material	Length	Item#	Each
BR - Brass	125mm (5")	**195-1185**	**$31.35**

B, C Style #15AGW.C and 15A.C

Cutting tweezers for soft copper, gold, silver and magnetic wires. Cutting capacity for copper, yellow gold, white gold and silver is 0.10-0.25mm. Cutting capacity for magnetic wires is 0.10-0.15mm.

	Material	Length	Jaw Width	Item#	Each
B.	C - Carbon Steel	120mm (4¾")	10mm	**195-1190**	**$53.95**
C.	C - Carbon Steel	120mm (4¾")	12mm	**195-1191**	**53.95**

D. Style Super Slim #27

Long and slender tweezers with extra fine tips for multiple precision applications.

Material	Length	Item#	Each
SA - Stainless Steel	140mm (5½")	**195-1174**	**$24.80**

Supra® Swiss Boley Tweezers

Superior no-scratch/antiglare satin finish. Anti-magnetic stainless steel tweezers. Good resistance to corrosion. Made in Switzerland.

E. Style #AA

Straight fine tips.

Material	Length	Item#	Each
SA - Stainless Steel	130mm (5⅛")	**195-1178**	**$15.50**

F. Style #PP

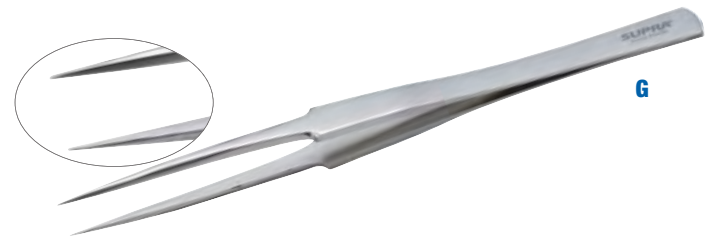
Straight fine tips.

Material	Length	Item#	Each
SA - Stainless Steel	120mm (4¾")	**195-1180**	**$17.85**

G. Style #GG

General purpose strong, fine tips. Anti-Magnetic Anti-Acid Stainless Steel.

Material	Length	Item#	Each
SA - Stainless Steel	130mm (5⅛")	**195-1182**	**$17.85**



Supra® Swiss Diamond Tweezers

Precision Swiss made jewelry tweezers for holding diamonds, precious stones and small parts. Made of magnetizable stainless steel heat treated to approximately 45 Rockwell "C" and matte finished. Those with a -1 suffix have both serrated and grooved tips to enhance secure holding. All are non-locking except Style MR-1. Made in Switzerland.

A. Style F

Fine serrated tips and serrated handles. 160mm (6¼") long.

Material	Tips	Groove	Item#	Each
S - Stainless Steel	Fine	No	**195-0414**	**$24.90**

B. Style F-EG

Fine tips with special satin finish on tips and grips. 160mm (6¼") long.

Material	Tips	Groove	Item#	Each
S - Stainless Steel	Fine	No	**195-0418**	**$49.50**

C. Style F-1

Fine serrated and grooved tips and serrated handles. 160mm (6¼") long.

Material	Tips	Groove	Item#	Each
S - Stainless Steel	Fine	Yes	**195-0415**	**$25.75**

D. Style M

Medium serrated tips and serrated handles. 160mm (6¼") long.

Material	Tips	Groove	Item#	Each
S - Stainless Steel	Medium	No	**195-0411**	**$24.90**

E. Style M-EG

Medium tips with special satin finish on tips and grips. 160mm (6¼") long.

Material	Tips	Groove	Item#	Each
S - Stainless Steel	Medium	No	**195-0417**	**$49.50**

F. Style M-1

Medium serrated and grooved tips and serrated handles. 160mm (6¼") long.

Material	Tips	Groove	Item#	Each
S - Stainless Steel	Medium	Yes	**195-0412**	**$25.75**

G. Style MR-1 – with slide lock

Medium serrated and grooved tips and serrated handles. 160mm (6¼") long.

Material	Tips	Groove	Locking	Item#	Each
S- Stainless Steel	Medium	Yes	Yes	**195-0413**	**$30.80**

Supra® Tweezers with Replaceable ESD-safe Plastic Tips

These high-precision tweezers feature stainless steel bodies with replaceable Electrostatic Discharge ESD-safe plastic (PA66/CF30 polyamide 66 reinforced with 30 wt% carbon fiber) tips. Heat stabilized with very high rigidity and excellent tensile and flex strength. Good heat capability with continuous use temperature of 266°F (130°C). Not recommended for continuous use with strong acids, alkalis, hot water or steam. Chemically resistant to oils, grease, fuels and non polar solvents. Typical applications include handling of sensitive components and devices such as electronic components, micro-mechanical parts, glass and ceramic substrates, capillary, etc. Made in Switzerland.

A. Supra® Tweezers #3C with Extra Fine Tips

Anti-magnetic anti-acid stainless steel body with ESD-safe tips as described above. #3C is 110mm (4¼") overall length. Tip measures 0.03" (0.8mm) wide x 0.05" (1.3mm) thick.

Description	Item#	Each
3CCF	**195-1330**	**$31.35**
Replacement Tips (Pair)	195-1331	9.55

B. Supra® Tweezers #5 with Very Fine Tips

Anti-magnetic anti-acid stainless steel body with ESD-safe tips as described above. 130mm (5") overall length. Tips measures 0.02" (0.5mm) wide x 0.025" (0.6mm) thick.

Description	Item#	Each
5CF	**195-1334**	**$31.35**
Replacement Tips (Pair)	195-1335	9.55

C. Supra® Tweezers #249 with Strong Tips

Anti-magnetic anti-acid stainless steel body with ESD-safe tips as described above. 130mm (5") overall length. Tip measures 0.09" (2.2mm) wide x 0.09" (2.2mm) thick.

Description	Item#	Each
249CF	**195-1336**	**$31.35**
Replacement Tips (Pair)	195-1337	9.55

D. Supra® Tweezers #259 with Fine Tips

Anti-magnetic anti-acid stainless steel body with ESD-safe tips as described above. 130mm (5") overall length. Tip measures 0.025" (0.6mm) wide x 0.04" (1.0mm) thick.

Description	Item#	Each
259CF	**195-1338**	**$31.35**
Replacement Tips (Pair)	195-1339	9.55

E. Plastic Tweezers

Synthetic nonconductive tweezers ideal for changing watch batteries. Measure 5" long. Imported.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Plastic Tweezers	**195-3262**	**$1.05**	**$0.95**	**$0.89**

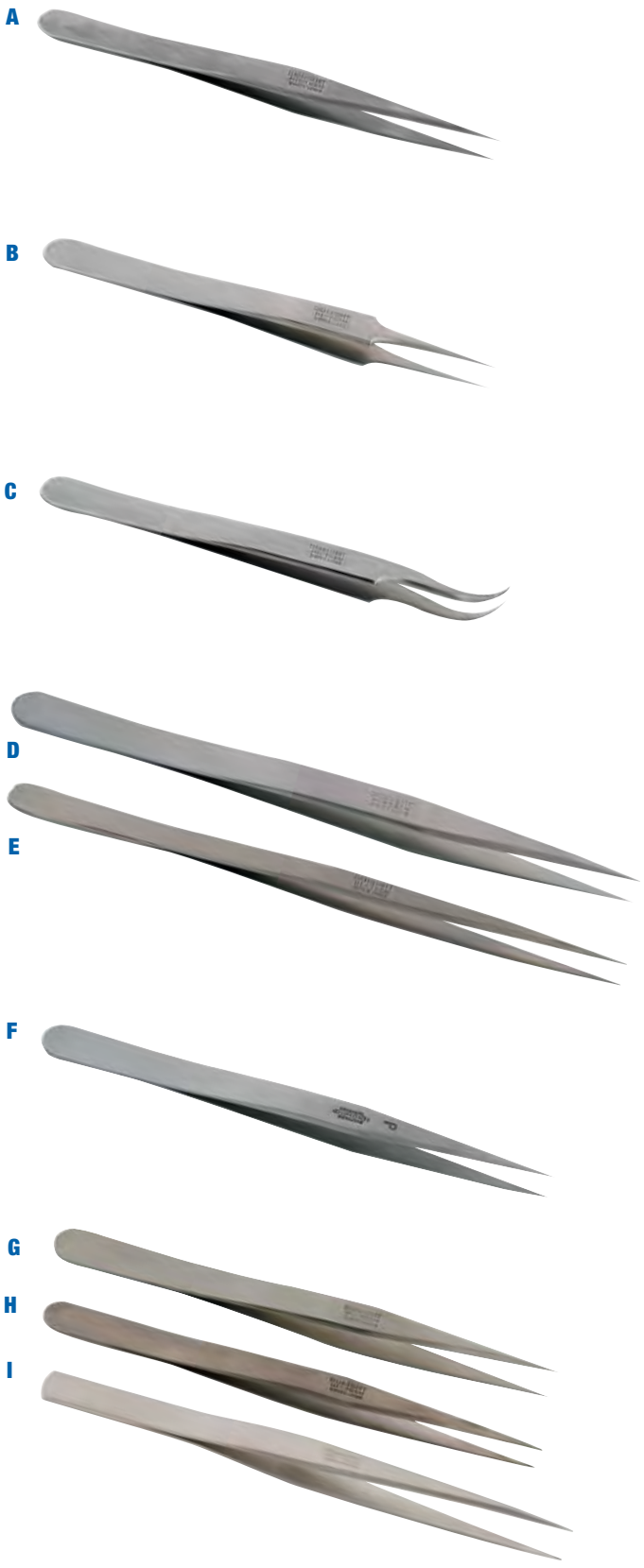
F. Stone Holder

Ideal for picking up small stones and beads. Just press plunger to open, then release to grasp item securely. Made of stainless steel. Measure 4½" long. Imported.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Four-Prong Stone Holder	**840-4451**	**$5.95**	**$5.65**	**$5.36**

Dumont® High-Tech Tweezers

Manufactured by the original Swiss Dumont factory. Forged from premium-grade stainless steel unless otherwise noted and machined to a smooth satin finish. Extensive hand operations are used in shaping, adjusting and finishing the points. Ideally suited for holding miniature parts, gemstones, etc.



A. Dumont® 3C

For handling all miniature and micro-miniature parts. They have tapered shanks with bevel edges; points have been honed and are very sharp. Measure approximately 4¼" long. Stainless steel.

Description	Item#	EACH Prices 1-2	3-9	10+
Style 3C	**195-0400**	**$34.85**	**$31.37**	**$29.62**

B. Dumont® 5

Very narrow, needle-like points have been extra-honed to extreme sharpness. Ideally suited for handling microscopic parts and delicate work. Indented shanks with bevel edges. Measure approximately 4¼" long. Stainless steel.

Description	Item#	EACH Prices 1-2	3-9	10+
Style 5	**195-0392**	**$29.50**	**$26.55**	**$25.08**

C. Dumont® 7

Excellent tweezers for handling all miniature and micro-miniature parts and components. The curved shanks permit the user to rest active hand on the bench during assembly operations. Points have a plain finish and are very sharp. Measure approximately 4½" long. Stainless steel.

Description	Item#	EACH Prices 1-2	3-9	10+
Style 7	**195-0395**	**$34.75**	**$31.28**	**$29.54**

D, E Dumont® PP and SS

Style PP is for sorting, assembling and handling miniature parts. Have tapered shanks with bevel edges. Points are sharp. Style SS is similar to PP but is very slim. Measure approximately 5⅜" long. Stainless steel.

	Description	Item#	EACH Prices 1-2	3-9	10+
D.	Style PP	**195-0410**	**$30.85**	**$27.77**	**$26.22**
E.	Style SS	**195-0405**	**31.95**	**28.76**	**27.16**

F. Dumont® P

Have extremely hard regular points for general work. Good when rust and corrosion are not significant factors. Measure approximately 4¾" long. Carbon steel.

Description	Item#	EACH Prices 1-2	3-9	10+
Style P	**195-0340**	**$37.50**	**$33.75**	**$31.88**

G-I Dumont® Titanium – Lightweight

These 100% nonmagnetic tweezers are made of titanium, which is 60% stronger and 40% lighter than steel, for superior durability and a more delicate touch. Feature finely honed tips.

	Description	Length	Item#	Each
G.	Style 1	4¾"	**195-3280**	**$36.05**
H.	Style 3	4¾"	**195-3281**	**36.05**
I.	Style AA	4⅞"	**195-3282**	**35.35**

Dumont® High-Tech Tweezers (continued)

A-E Dumont® Serrated Tip Diamond Tweezers

The finest in the industry. Precision-made with perfect alignment at the tips. Tips are serrated at a perpendicular angle for the best grip possible. Available in medium (M), medium grooved (MG), or fine (F) points, with or without a locking mechanism. Made in Switzerland. All measure 6½" long except the grooved which is 5⅞" long. Made of stainless steel.

	Tips	Locking	Finish	Item#	EACH Prices 1-2	3-9	10+
A.	F	No	Stainless	195-0350	$30.80	$29.26	-
B.	M	No	Stainless	195-0355	29.40	26.46	$24.99
C.	MG	No	Stainless	195-0356	33.95	30.56	28.86
D.	F	Yes	Stainless	195-0360	45.75	41.18	38.89
E.	M	Yes	Stainless	195-0365	43.50	39.15	36.98

F, G Dumont® Titanium Diamond Tweezers

These 100% nonmagnetic tweezers are made of titanium which resists rust and corrosion. These tweezers are 60% stronger and 40% lighter than steel, for superior durability and a more delicate touch. Feature finely honed tips.

	Tips	Length	Item#	Each
F.	F	6¼"	195-0348	$42.85
G.	M	6¼"	195-0349	42.85

H-M Economical Diamond Tweezers

Value-engineered for precision work. Available in locking or non-locking, fine (F) or medium (M) points. All have serrated tips and measure 6⅜" long.

	Tips	Locking	Finish	Item#	EACH Prices 1-2	3-9	10+
H.	F	No	Stainless	195-0334	$7.80	$7.02	$6.63
I.	F	No	Black	195-0335	8.95	8.06	7.61
J.	M	No	Stainless	195-0336	7.80	7.02	6.63
K.	M	No	Black	195-0337	8.95	8.06	7.61
L.	F	Yes	Stainless	195-0330	5.10	-	-
M.	M	Yes	Stainless	195-0332	4.90	-	-

N. Diamond Tweezers with Shovel

Stainless steel nonlocking tweezers with medium serrated tips and shovel attached to end for convenient handling of stones and beads. Measure 7⅛" long.

Description	Item#	Each
Diamond Tweezers with Shovel	195-0331	$4.95

O, P Dumont® Boley Style Tweezers AA and GG

Superbly machined Swiss tweezers. Made of stainless steel for very fine sorting, inspection and handling of miniature parts. The sharp points have received some finishing at the tips. Excellent for use under low-power magnification. Style AA is for general use. Style GG has pointed indented shanks. Measure approximately 5" long.

	Description	Length	Item#	EACH Prices 1-2	3-9	10+
O.	Style AA	5"	195-1050	$30.25	$27.23	$25.71
P.	Style GG	5"	195-1150	39.95	35.96	33.96

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A, B Boley Style Tweezers RR and MM

These stainless steel general-utility tweezers are excellent general utility tweezers for handling miniature parts. All shanks are tapered and have bevel edges. The sharp points have received some finishing at the tips. Style RR is a hefty, heavy-duty tweezers with wide shanks. Style MM is for general use.

	Description	Length	Item#	EACH Prices 1-2	3-9	10+
A.	Style RR	5½"	**195-1300**	**$5.85**	**$5.27**	**$4.97**
B.	Style MM	5"	**195-1200**	**5.85**	**5.27**	**4.97**

C. Utility Tweezers

Straight nickel plated steel tweezers with smooth tips. Measure 7" long.

Description	Length	Item#	Each
Utility Tweezers	7"	**195-3052**	**$3.80**

D. Bead Stringing Tweezers

Feature narrow tapered ends for easy knot tying. Made of stainless steel with nonglare satin finish. Measure 4½" long.

Description	Item#	Each
Bead Stringing Tweezers	**195-1355**	**$2.80**

E. Economical Tweezers

Economical steel tweezers. Hand-finished, pointed tips. Good for working with miniature parts under low magnification. Measure 5" long.

Description	Length	Item#	EACH Prices 1-2	3-9	10+
Economical Tweezers	5"	**195-1350**	**$2.95**	**$2.66**	**$2.51**

F. Stone Holder

Ideal for picking up small stones and beads. Just press plunger to open, then release to grasp item securely. Made of stainless steel. Measure 4½" long.

Description	Item#	EACH Prices 1-2	3-9	10+
Four-Prong Stone Holder	**840-4451**	**$5.95**	**$5.65**	**$5.36**

G, H Copper Tongs

Designed especially for use with pickling and acid solutions. Will not contaminate solutions nor corrode. Fishtail tips are thinner to pick up small or flat items. Measure 9" long.

	Description	Item#	EACH Prices 1-2	3+
G.	Copper Tongs	**195-0100**	**$6.25**	**$5.31**
H.	Copper Fishtail Tongs	**195-0110**	**8.85**	**7.52**

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A, B Supra® Swiss Ceramic Tip Tweezers Acid-Resistant

Won't contaminate your platinum. Non-static.

These lightweight Supra Swiss tweezers feature zirconia ceramic tips attached to an aluminum body. Perfect for working with platinum and for all soldering jobs. Extremely smooth surface. Both 100% non-magnetic, nonrusting and nonstatic. Acid-resistant. Six times harder than stainless steel, twice as hard as carbon steel. Tips measure 1¼" long. Made in Switzerland.

	Description	Length	Item#	Each
A.	Fine	5¼"	**195-3286**	**$62.00**
B.	X-Fine	5½"	**195-3285**	**62.00**
	Replacement tips Fine	1¼"	195-3288	**37.20**
	Replacement tips X-Fine	1¼"	195-3287	**37.20**

C. Stand-Up Cross-Locking Tweezers

Free hands for soldering. Tweezers lie flat to hold piece about 1" off soldering board. Tips are serrated. Made of stainless steel. Measure 6¼" long.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Stand-Up Cross-Locking Tweezers	**195-0325**	**$4.15**	**$3.74**	**$3.53**

D-F Cross-Locking Tweezers

Tips close automatically when pressure is released from the handles. Most often used to hold objects for soldering; however, also used in a variety of general applications. Excellent heat sink when soldering. Nickel-plated.

				EACH Prices		
	Points	Length	Item#	1-2	3-9	10+
D.	Pointed	4¾"	**195-1375**	**$2.89**	**$2.60**	**$2.46**
E.	Blunt	6½"	**195-1400**	**2.95**	**2.66**	**2.51**
F.	Pointed	6½"	**195-1450**	**2.95**	**2.66**	**2.51**

G, H Insulated Cross-Locking Tweezers

Similar to standard cross-locking tweezers, but handles are insulated to protect hands from heat of soldering flame. Stainless steel with serrated tips.

				EACH Prices		
	Points	Length	Item#	1-2	3-9	10+
G.	Straight	6¾"	**195-2050**	**$4.15**	**$3.74**	**$3.53**
H.	Curved	6¾"	**195-2075**	**4.15**	**3.74**	**3.53**

I. Third Hand

Ideal for soldering difficult pieces. Leaves hands free. Heavy cast-iron base securely holds a cross-locking tweezers. Tweezers may be angled in any direction for most convenient working position.

	Description	Item#	Each
I.	Third Hand	**816-1800**	**$11.50**
	Replacement Tweezers	**195-1400**	**2.95**

All prices subject to change without notice.

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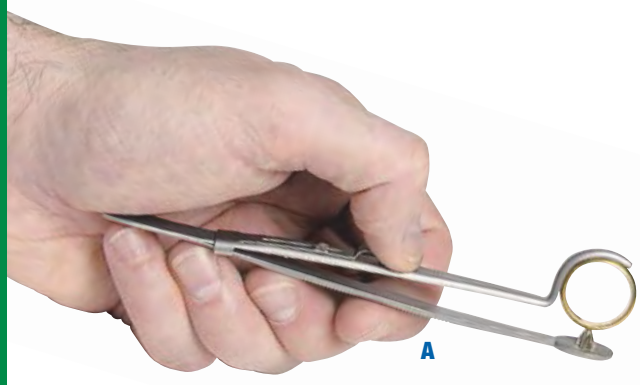


A. Head-and-Shank Tweezers

Position setting and shank for easy soldering of solitaires. Curved, grooved tip securely holds shank; flat serrated base prevents slippage. Slide-locking. Made of stainless steel. Measure 5½" long. Made in Switzerland.

Description	Item#	Each
H&S Tweezers	**195-3000**	**$60.85**

B. Econo Head-and-Shank Tweezers

Use these slide-locking tweezers to hold rings for easy soldering of solitaires. Curved, grooved tip securely holds ring shank while flat serrated base prevents slippage. Made of steel. Measure 5½" long.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Econo H&S Tweezers	**195-3005**	**$7.59**	**$6.83**	**$6.45**

C. LaVaque Head & Shank Tweezers with Visual Alignment

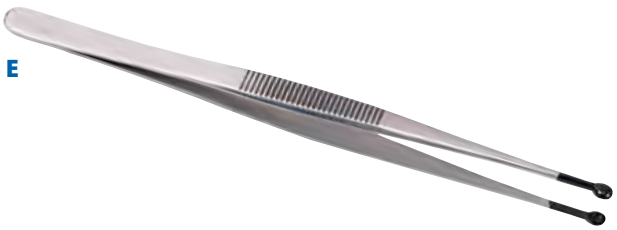
If you've ever soldered a head onto a shank only to find it misaligned by a few degrees, you'll love these tweezers. Feature patented LaVaque visual alignment for soldering settings accurately the first time, every time. Curved, grooved tip securely holds the shank in place while the transparent glass base secures the head, allowing you to see from the top and all sides for perfect alignment. Replaceable high-temperature glass withstands direct flame and soldering temperatures required for gold and silver, lasting for dozens of jobs. Not recommended for platinum and other metals that require higher soldering temperatures.

Description	Item#	Each
LaVaque Head & Shank Tweezers	**195-3500**	**$33.95**
LaVaque Replacement Glass	**195-3505**	**7.95**

D. Ring Set Soldering Tweezers

Hold two rings being soldered together as a set. Ideal for wedding band sets. Measure 5⅜" long.

Description	Item#	Each
Ring Set Tweezers	**195-0320**	**$4.70**



E. Cup-Shaped Pearl Tweezers

Tweezers with cup-shaped ends for holding pearls, beads and more. Coated tips prevent scratching of delicate surfaces. Measure 5¾" long.

		EACH Prices		
Description	Item#	1-2	3-9	10+
Cup-Shaped Pearl Tweezers	**195-0310**	**$5.95**	**$5.36**	**$5.06**

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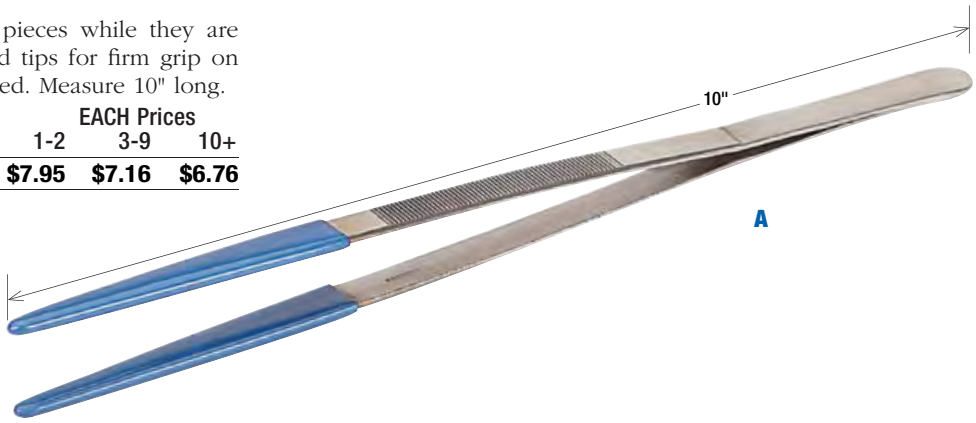
A. Long-Reach Tweezers

Made of stainless steel. Ideal for holding pieces while they are being cleaned. Heat-resistant plastic-covered tips for firm grip on work piece without scratching. Chrome-plated. Measure 10" long.

Description	Item#	EACH Prices 1-2	3-9	10+
Long-Reach Tweezers	**195-1900**	**$7.95**	**$7.16**	**$6.76**



A

B, C Vacuum Tweezers Set

Offers more precision and speed than standard tweezers.

Picks up cabochons, faceted stones and small parts without damaging them. Allows easier, faster, more precise stone placement. Ideal for setting small stones and stones in wax. Includes mini vacuum generator with in-line on/off switch, anodized aluminum handpiece, five stainless steel handpiece tips and 4' of flexible air tubing with in-line filter.

Vacuum generator can be adjusted from 1" to 15" Hg for working with anything from the tiniest melee to very large stones. Airflow: 125 cu. in./min. Measures just 2¾" dia. x 4½"H. Comfortable pencil-thin handpiece weighs just ½ oz. Creates vacuum when finger is placed over hole in back; breaks vacuum when finger is lifted off hole. Five stainless steel tips of various diameters pick up small, medium and large stones.

Eight-piece neoprene rubber cup set made for picking up larger items. Vacuum cups fit onto the probe tips. Cup diameters range from 3⁄16" to 5⁄8" by 1⁄16" increments.

	Description	Item#	Each
B.	Vacuum Tweezers Set, 110V	**195-3300**	**$169.95**
	Vacuum Tweezers Set, 220V, 50Hz	**195-3305**	**199.95**
C.	Rubber Cup Accessory Set	**195-3301**	**32.50**

B

C

D. Vacuum Tweezers

Offering unmatched precision over standard tweezers, this self-contained miniature vacuum pump has 2 handpieces for picking up stones and small parts without damaging them. Picks up both cabochons and faceted stones.

Because there are no tweezers tips on the girdle of the stone, placement is easier, faster and more precise. This is especially useful when setting small stones and when setting stones in wax. Comes with 4 stainless steel tips of varying diameters for holding smaller or larger stones. Vacuum is created by placing the forefinger over a hole in the handpiece. To break the vacuum, simply lift your finger from the hole.

The vacuum generator measures just 5" long x 3¼" wide x 2" high with an airflow of 125 cu. in./min. 110V. Shipping Weight: 1.2 lbs.

Includes :

- 110V vacuum unit with on/off switch
- 2 pencil-thin, lightweight aluminum pens
- 4 stainless steel tips of varying sizes
- 2 flexible air tubes each measuring 36" in length

Description	Item#	Each
Vacuum Tweezers	**195-3307**	**$65.00**
Replacement Pens Set of 2	195-3006	$25.00
Replacement Tips Set of 4	195-3007	$4.95

D

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A-I Pin Vises

A wide selection of pin vises for holding small drills, wires, taps, screwdriver blades and more.

	Description	Length	Item#	EACH Prices 1-2	3-5	6+
A.	5/8" wide jaws, hollow handle opens to 1/4", 3/16" gap. Made in Germany.	4 1/2"	**820-4150**	**$26.25**	**$24.94**	**-**
B.	Dog-nosed, hollow handle, 5/16" jaw, opens to 1/4", 3/16" gap. Made in Germany.	4 1/2"	**820-4050**	**27.50**	**26.13**	**-**
C.	Extra screw and nut for #820-4150 and #820-4050. Made in Germany.	–	**820-4100**	**8.40**	**7.98**	**$7.14**
D.	Double-ended with different size steel collets mounted in both ends of hollow handle. Capacity: 0"–0.064". Made in France.	4 1/4"	**820-4650**	**11.15**	**10.59**	**10.04**
E.	Double-ended with reversible steel collets. Capacity: 0"–0.125". Made in India.	4 1/4"	**820-4350**	**5.95**	**5.65**	**5.36**
F.	Two steel chucks with hollow brass handle. Capacity: 0"–0.032". Made in France.	3 3/4"	**820-4300**	**8.50**	**8.08**	**7.65**
G.	Steel four-jaw chuck with hollow aluminum handle. Capacity: 0"–0.032". Made in France.	4 1/4"	**820-4250**	**7.25**	**6.89**	**6.53**
H.	Swivel head pin vise for drilling or tapping. Two double-ended chucks. Capacity: 0"–0.125". Made in India.	3 1/2"	**820-4355**	**4.50**	**-**	**-**
I.	Sliding four-jaw pin vise for one-hand operation. Single end has knurled slide. Capacity: 0"–0.032". Made in India.	4 1/2"	**820-4260**	**4.50**	**4.28**	**4.05**

J-M Precision Pin Vises

Durable hardened steel pin vises with hollow handles for accommodating long wires. Black finish. Sold individually and in a money-saving set of all four. Made in India.

	Length	Collet Capacity	Item#	Each
J.	76mm	0–1.0mm	**820-4186**	**$3.95**
K.	86mm	0–1.5mm	**820-4187**	**3.95**
L.	96mm	1.5–3.0mm	**820-4188**	**3.95**
M.	105mm	2.7–4.5mm	**820-4189**	**3.95**
	4-Piece Set (one of each)		**820-4185**	**14.20**

N. Setting Bur Chuck with Swivel Handle

For holding burs, reamers and taps. Ball-shaped wooden swivel handle fits in palm of hand. For 3/32" shanks. Measures 4" long.

Description	Item#	Each
Setting Bur Chuck	**840-4200**	**$11.75**

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A. Pin Grinding Fixture

This unique precision-machined fixture is used on your surface grinder for accurately holding and positioning pins and ejector pins for quick and easy cutoff and grinding. The 1¼" wide linear pin grip holds 1/16"–¾" diameter. Pins firmly. Pressure is spread out over the entire width of the grip, eliminating grinding chatter and dents in pins that normally occur when using a single-point V-block.

Pins 14" and longer are easily and accurately ground to length. Can be used in horizontal position for end grinding or attached to angle iron for vertical use and face grinding. Measures only 3½" high with 4½"W x 3"D base. Made in USA.

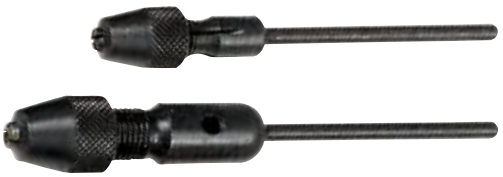
Description	Item#	Each
Pin Grinding Fixture	**819-5000**	**$435.00**

A

B, C Adapter Chucks – 3/32" Shank

Allow you to use tools with small shanks in standard flex shaft handpieces. Threads are right-hand. Made in France.

	Description	Item#	Each
B.	1.00mm Chuck	**840-3210**	**$13.35**
C.	2.62mm Chuck	**840-3220**	**15.50**



B

C

D. Econo 4-Collet Adapter Chuck – 3/32" Shank

Works in standard flex shaft handpieces. Threads are right-hand. Includes a collet that completely closes for holding smallest of tools as well as 1.50, 2.50 and 3.00mm collets. Made in India.

Description	Item#	Each
Econo 4-Collet Adapter Chuck	**840-3240**	**$6.95**

D

E. Steel Hand Vise

Has spring action in handle to keep jaws open. Serrated jaws are 1¼" wide and open to 1". Measures 4" long.

Description	Item#	EACH Prices 1-2	3+
Steel Hand Vise	**820-4500**	**$40.00**	**$38.00**

E

F. Foredom® Mini Vise

Securely holds small parts. Has 1¾" slotted grooves in the base for mounting on a drill press or workbench. Stationary jaw has a perpendicular V-groove, and moveable jaw has a horizontal V-groove for holding round stock or tube. Glare-free black finish.

Specifications:

Jaw Width	1¾"
Jaw Opening	1¾"
Dimensions	4"L x 2⅜"W x 1½"H
Ship. Wt.	½ lb.

Description	Item#	Each
Mini Vise	**820-4700**	**$23.50**

F

G. Drill Press Vise

All aluminum vise has slots to attach to bench top drill press (850-0595 p. 446). Quick release feature for ease of use. Jaw width 2 9/16". Jaw opening 2¾". Measures 9½"L x 4½"W x 2¼"H.

	Description	Item#	Each
G.	Drill Press Vise	**850-0594**	**$12.95**

G

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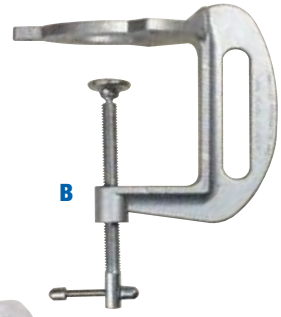

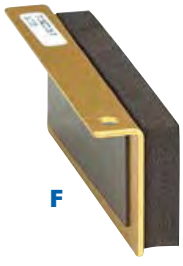

A. Panavise Model 301 - 2½" Jaw Opening

An all-purpose vise that tilts, turns and rotates. Vise head can be turned 360°, tilted 90° and locked in any position. When head is locked in desired position, stem can be rotated or locked in place. All movement is controlled by one convenient variable pressure knob. Nonmarring nylon jaws open to 2½".

Description	Item#	Each
Panavise Model 301	**814-0200**	**$55.00**
Replacement Nylon Jaws, set of 2	814-0805	2.95

B. Base Mount #311 for Panavise Model 301

Platform base mount for attaching Panavise Model 301 securely to the edge of a workbench or counter. Attaches with a clamp screw that opens to a maximum of 3½" (89mm). Comes with three screws for securing Panavise to base mount.

Description	Item#	Each
Base Mount #311 for Panavise Model 301	**814-0700**	**$51.00**

C. Panavise Model 381 - 2½" Jaw Opening

An all-purpose vise with the same features as Model 301—with the added benefit of portability. A half-turn of the mount lever permits easy mounting of the vise on any smooth, nonporous surface. Suction holds vise to surface until lever is released.

Description	Item#	Each
Panavise Model 381	**814-0190**	**$75.00**
Replacement Nylon Jaws, set of 2	814-0805	2.95

D. Swivel Bench Vise - 2½" Jaw Opening

Dual guide rods ensure parallel closing of jaws, rigidity and steady action. Smooth jaws help prevent marring of soft metal. Features sturdy construction with anvil top and enamel-finished body. Fits benchtops up to 2" thick. Can be rotated laterally 360° and locked into position. Jaws are 2½" wide and open to 2½". Ship. wt: 5½ lbs.

Description	Item#	Each
Swivel Bench Vise	**820-4054**	**$72.45**

E. Mini Bench Vise - 1" Jaw Opening

Great for small, precision work. Jaws are 1" wide and open to 1". C-clamps to bench or tabletop up to 1⅛" thick. Body is cast iron with heavy red enamel coating. Ship. Wt: 1 lb.

Description	Item#	Each
Mini Bench Vise	**820-4052**	**$7.95**

F. Foredom® Soff Jaws

Attach to any 3" or 4" bench vise via built-in magnetic strips. Available with pads made of leather or resilient ethylene vinyl acetate (soft rubber-like material). Grip odd shapes with ease. Prevent marring of polished and painted surfaces and threaded parts. Measure 3½" long.

Description	Item#	Each
Rubber Soff Jaws, pair	**820-4705**	**$8.25**
Leather Soff Jaws, pair	**820-4706**	**8.25**

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A. Rotating Bench Vise

Sturdy high-quality vises especially suited for tool and die makers and for electronic and general metalworking. The vise head can be rotated a full 360° and tilted from a flat 180° horizontal to a full 90° vertical, then locked securely in place, allowing your work piece to be easily swiveled and angled into the best working position. Supplied with steel jaws. Optional nylon jaws are available. One side of the steel jaws has two V-shaped grooves for holding wire and round or tube stock. Movable vise jaw slides in a brass guide. Jaw clamping screw and joint locking screw work on bronze lead nuts.

Choose from two models: one has 1 13/16" jaws and 3" clamping range, and other has 3 1/4" jaws and 4 1/8" clamping range. Each includes base mount with clamp screw for secure mounting on the edge of a workbench or counter up to 3" thick. Base mount can also be removed for fixing the vise with screws directly to benchtop. Made in Italy.

	Bench Vise Jaw Width	Clamping Range	Clamping Height	Net Wt.	Item#	Each
A.	1 13/16" (46mm)	3" (75mm)	1 3/8" (35mm)	4 lbs.	820-4056	$285.00
	3 1/4" (82mm)	4 1/8" (105mm)	2 7/32" (56mm)	14 lbs.	820-4058	576.00
	Optional Nylon Jaws for #820-4056				820-4060	59.95
	Optional Nylon Jaws for #820-4058				820-4062	67.50

B-D GRS® Engraver's Blocks

The Magnablock and the Small Block are extremely well-made devices used to hold objects firmly for engraving, stone setting and general-purpose work. Each holds both large and small items. Features heavy weight and adjustable drags for keeping the workpiece in the proper position. Uses two industrial ball bearings and a large roller thrust bearing to eliminate side play and wobble. Includes rubber ring pad with Nylon glides, upper jaw plates, five pins and wrench. Made in USA.

Features:

- Solid steel construction for exceptional durability
- Adjustable friction lock from zero to full lock for crown rotation control
- Nonglare satin finish on body, black oxide finish on jaws for protection
- Precision-machined parts for smooth, efficient operation
- Easily adjustable working angles for comfort

Specifications:	Magnablock	Small Block
Spherical Diameter	5 3/4"	5 1/8"
Jaw Size	3"W x 1 3/4"H	2 1/2"W x 1 1/2"H
Max. Jaw Opening	3 1/2"	3"
Net/Ship. Wt.	30/33 lbs.	19/22 lbs.

	Description	Item#	Each
B.	Magnablock	856-0275	$648.00
C.	Small Block	821-6000	468.00
D.	Attachment Set 30-piece	856-0277	98.00

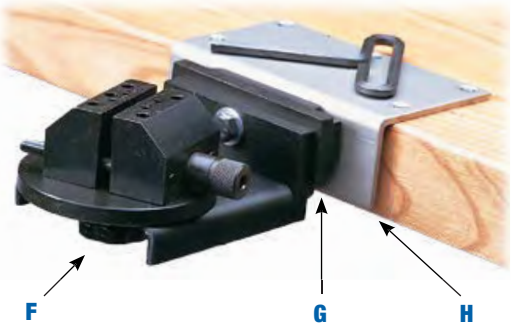
E. GRS® Microblock™ Ball Vise

Compact, low-profile design is perfect for microscope work and other jobs where a larger vise is an obstacle. Smooth, self-centering jaw system and adjustable internal brake system lets the user choose the amount of rotational resistance from totally free to fully locked. Machined from solid stainless steel and finished with low-glare treatment to reduce eyestrain. Includes positioning ring, four jaw pins, wrenches and Thermo-Loc Sample Kit (four bars). Measures 3.1" diameter with 1.8"W x .87"H jaws. Max. jaw opening: 2". Made in USA

	Description	Item#	Each
	Microblock	856-0304	$268.00
E.	Microblock with 30-Piece Attachment Set	856-0305	338.00

F-H GRS® BenchMate™ Multipurpose Vise

Attaches to BenchMate or directly to your bench. Tilts left and right and rotates on vertical axis so you can find the best working angle. Features holes in top for holding pins or the padded ring clamp from GRS 30-Piece Attachment Set #856-0277 (see p. 553). Made of satin-finished steel. To mount, fit in Fixed Mounting Plate, secure to Benchtop Mounting Adapter, then screw into bench. Made in USA.



	Description	Item#	Each
F.	Multipurpose Vise	856-0172	$168.00
G.	Fixed Mounting Plate	856-0196	18.95
H.	Benchtop Mounting Adapter	856-0193	25.95

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60-drawer storage cabinet with 130 assorted Energizer watch batteries.

A. Energizer® Watch Battery Starter Kit

Energizer enjoys brand recognition that few others can match, and for good reason: their batteries are among the most reliable in the world. Offer Energizer watch batteries to show your customers that you put quality first and to turn a quick profit. This affordable kit includes essential items that will help you get started. Use with optional Battery Changing Set #820-9041 (see facing page) to change batteries like a pro in no time. Made in USA.

Includes:

- 60-drawer storage cabinet stocked with 130 assorted silver oxide and lithium Energizer watch batteries
- Energizer watch battery tester
- Training booklet
- Battery cross-reference guide
- Battery size checker
- Energizer counter sign

Description		Item#	Each
Energizer Watch Battery Starter Kit	Ⓗ	**808-0285**	**$220.00**

B. Energizer® Silver Oxide Watch Batteries

Battery#	5pc Item#	Each	Item#	Pkg. of 20
315	**808-0315**	**$0.96**	**808-1315**	**$16.75**
317	**808-0317**	**1.14**	**808-1317**	**17.25**
319	**808-0319**	**0.79**	**808-1319**	**14.50**
321	**808-0321**	**0.74**	**808-1321**	**12.05**
329	**808-0329**	**1.09**	–	–
335	**808-0335**	**1.40**	–	–
337	**808-0337**	**2.15**	–	–
339	**808-0339**	**1.89**	–	–
341	**808-0341**	**1.89**	–	–
344/350	**808-0344**	**2.00**	–	–
346	**808-0346**	**1.89**	–	–
357/303	**808-0357**	**1.69**	–	–
362/361	**808-0362**	**0.68**	**808-1362**	**10.90**
364/363	**808-0364**	**0.45**	**808-1364**	**8.10**
365/366	**808-0365**	**1.45**	–	–
371/370	**808-0371**	**0.72**	**808-1371**	**11.55**
373	**808-0373**	**0.93**	**808-1373**	**16.10**
377/376	**808-0377**	**0.60**	**808-1377**	**9.28**
379	**808-0379**	**0.83**	**808-1379**	**12.60**
386/301	**808-0386**	**1.65**	–	–
390/389	**808-0390**	**0.95**	–	–
392/384	**808-0392**	**0.75**	**808-1392**	**11.70**
393/309	**808-0393**	**1.47**	–	–
394/380	**808-0394**	**1.05**	**808-1394**	**19.40**
395/399	**808-0395**	**0.79**	**808-1395**	**14.35**
397/396	**808-0397**	**0.75**	**808-1397**	**13.85**

5pc *Five-piece minimum; please order in multiples of five.*

C. Energizer® Lithium Watch Batteries – 3V, Low Drain

Battery#		5pc Item#	Each
2016	Ⓗ	**808-2016**	**$0.55**
2025	Ⓗ	**808-2025**	**0.55**
2032	Ⓗ	**808-2032**	**0.55**

5pc *Five-piece minimum; please order in multiples of five.*

Ⓗ *Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.*

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A. Deluxe Universal Battery Change Kit

A handy set for changing watch batteries. Includes everything needed to do the job quickly: case knife for pop-off case backs, spring bar changing tool, scratch brush for cleaning battery cavities, plastic tweezers for handling batteries, screw-back case-opening wrench, 1.0mm and 1.6mm flat-head screwdrivers, 1.2mm Phillips screwdriver and 5" x 5" polishing cloth. Faux leather, zippered case.

Description	Item#	Each
Deluxe Universal Battery Change Kit	**820-9041**	**$26.30**

A

B. Battery and Pulse Tester

A great jeweler's aid. Tests a watch to see whether the step motor is not working or the battery is dead—without opening the watch. Also tests the coil. Just rest the watch across the sensor and watch the readout. Requires no training. Includes 9V battery.

Description	Item#	Each
Battery and Pulse Tester	**820-9047**	**$39.95**

B

C. Energizer® Battery Tester

Tests a full range of miniature silver, mercury, manganese dioxide and lithium watch and calculator batteries. Compact and easy to use. Includes testing instructions printed on bottom. Not for use on hearing aid batteries. Measures 4½"L x 2⅛"W x 1¾"H.

Description	Item#	Each
Energizer Battery Tester	**820-9051**	**$23.75**

C

D. Battery Tester

An economical yet accurate tester for checking batteries under design and load conditions. Tests alkaline, carbon zinc, silver oxide, lithium, nickel cadmium and mercury batteries. Includes easy-to-follow instructions.

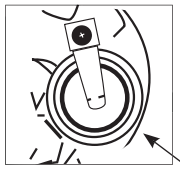
Description	Item#	Each
Battery Tester	**820-9048**	**$10.95**

D

E. Battery Clamp Assortment

This assortment contains 50 clamps for many of the most popular watches. Allows you to replace worn or broken clamps in minutes.

Description	Item#	Each
Battery Clamp Assortment	**820-9045**	**$28.95**

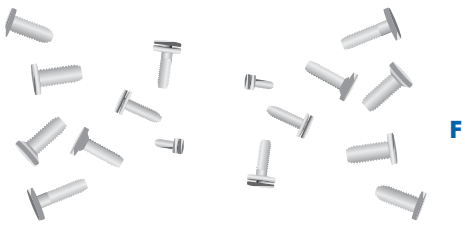


E

F. Battery Clamp Screw Assortment

This assortment contains 100 screws that will fit most watch brands.

Description	Item#	Each
Battery Clamp Screw Assortment	**820-9046**	**$19.95**



F

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A

A. L-G Watchcase Wrench

For waterproof cases. Opens any size and shape case. Features knurled polygon for any number of slots, notches or holes. Tight, nonslip grip will not scratch. Cover can be left in wrench, ready for replacing. Includes four sets of interchangeable jaw pins. Made in USA.

	Description	Item#	Each
A.	L-G Watchcase Wrench	**820-9020**	**$85.95**
	Replacement Pins, set of 12	820-9021	34.95

B

B. Waterproof Watchcase Wrench

This JAXA-style case wrench meets the highest standards. Includes four sets of pins (three of each style). Packaged in a hardwood box. Imported.

	Description	Item#	Each
B.	Waterproof Watchcase Wrench	**820-9025**	**$16.95**
	Replacement Round Pins, set of 3	820-9026	1.45
	Replacement Flat, set of 3	820-9027	1.45
	Replacement Square, set of 3	820-9028	1.45
	Replacement Curved, set of 3	820-9029	1.45

C

C. Case Wrench for Rolex® Cases

Specially designed to open Rolex Oyster cases. Features six interlocking tempered rings that fit every existing size and resist slipping. Sturdy cast frame fits in your bench vise, and small bar gives you the torque needed for stubborn case backs. Built-in adjustable case holder fits all size watches. Can also be used in conjunction with our Watchcase Wrench (see above). Ring sizes: 18.5, 20.2, 22.5, 26.5, 28.3 and 29.5mm.

Description	Item#	Each
Case Wrench for Rolex Cases	**820-9100**	**$99.95**

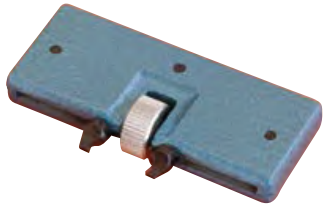
D

E

D, E Watchcase Holders

Both have metal bases with four plastic pins for securely holding watchcases without marring.

	Description	Item#	Each
D.	Watchcase Holder	**820-9030**	**$6.95**
E.	Large Watchcase Holder	**820-9035**	**15.95**



F

F. Pocket Case Wrench

Compact, convenient wrench for waterproof cases. Features tempered pins and easy-to-use adjusting wheel. Measures 2⅝" x 1⅛" x ½".

Description	Item#	Each
Pocket Case Wrench	**820-9095**	**$6.95**

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A. Snap-Back Case Opener

The ultimate in a snap-back case opener. This tool will open even the stubborn friction-fit or snap-back watch cases with a simple turn of the threaded thumb screw. User control of blade alignment and depth ensures no damage to delicate watch inner workings. Replaceable blade.

Description	Item#	Each
Snap-Back Case Opener	**820-9058**	**$89.95**
Replacement Blade	820-9059	12.95

View additional details at www.gesswein.com.

A

B. Snap-Back Case Knife

Special Swiss case knife with hard plastic handle and fixed tempered blade (does not fold into handle). Measures 4" long.

Description	Item#	Each
Snap-Back Case Knife	**260-3058**	**$23.95**

B

C. Snappy Watchcase Opener

Makes watchcase opening a snap! Just position the point between the case back and the case, and push slowly to lift off the back. Easily controlled so blade will not pop into watch movement. Spring-loaded for easy operation. Made of steel with red plastic handle. Measures 5" long. For watchcase closing, use Case Closing Pliers #820-9065 (see p. 558).

Description	Item#	Each
Snappy Watchcase Opener	**820-9060**	**$11.95**

C

D. Medium-Duty Bench Knife

Has slim 1¾" long blade set firmly in hardwood handle. Measures 5" long.

Description	Item#	Each
Medium-Duty Bench Knife	**260-3057**	**$12.80**

D

E. Case Knife

Features universally popular shape that gives watchmakers the proper grip for prying open snap-on case backs. Hardwood handle and precisely beveled, tempered steel blade make case opening easier. Measures 4½" long.

Description	Item#	Each
Case Knife	**820-9055**	**$4.50**

E

F. Heavy-Duty Bench Knife

An all-purpose bench knife for opening watchcases, scraping and cutting. Has 1¾" long steel blade mounted in hardwood handle. Measures 5¼" long.

Description	Item#	Each
Heavy-Duty Bench Knife	**260-3059**	**$3.80**

F

G. Victorinox® Original Swiss Army Knife

The first and finest!

Includes a cutting blade, scissors, file, tweezers, pick and key ring attachment. Made of stainless steel. Has royal blue enamel handle inlaid with metal Gesswein logo. Measures 2¼" closed.

Description	Item#	Each
Victorinox Original Swiss Army Knife	**827-1000**	**$18.75**

G

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A. Watchcase Press – Nylon Dies

The best inexpensive case closer available. Includes 14 snap-on nylon dies 7 hollow and 7 flat for 16-36mm diameter cases. Will not scratch or mar crystals. Made of sturdy cast metal. Works with watch lying facedown so user can see case back being closed.

Description	Item#	Each
Watchcase Press	**820-9050**	**$37.95**

B. Watchcase Press – Aluminum Discs

This combination case closer/crystal press beats anything in its price range and beyond. It features: 14 reversible turned aluminum dies with 28 sizes smoothed to a high polish so they will not scratch. Dies screw onto the upper and lower part so that they can be inverted for case closing or crystal fitting. Cast metal body with angled leverage arm for proper closure. Don't destroy watch cases or case backs by using the wrong tool. Our Combo Closer will give you years of satisfaction and service. Shipping weight: 5 lbs.

Description	Item#	Each
Watch Case Press - Aluminum Disc	**820-9052**	**$54.95**

C. Case Closing Pliers

A handy tool for safely closing watchcases. Parallel closing jaws with hinged, rubber-padded discs prevent damage to the watchcase and crystal. Measure 7½" long.

Description	Item#	Each
Case Closing Pliers	**820-9065**	**$19.75**

D. Vinyl Watch Tape

Used as a cover over watch faces and bracelets for protection from scratches during handling or transportation. Although it is called "tape" it has no adhesive. Clings to glass, plastic and metal without glue or gum. Leaves no residue!

Sold in approximately 150 foot in rolls. Available in two widths: 50mm for small to mid-size watches and 80mm for larger watches.

Description	Item#	Each
Vinyl Watch Tape 50mm	**820-9290**	**$24.95**
Vinyl Watch Tape 80mm	**820-9295**	**12.95**

E. Flat Case Back Gasket Assortment

This 54-piece assortment includes three pieces each of 18 sizes (15.00-32.00mm ID in 1mm increments). Gaskets measure 2mm wide x 0.5mm thick. Each size comes in its own envelope.

Description	Item#	Each
Flat Case Back Gasket Assortment	**808-0010**	**$24.95**

F. Watch Gasket Assortments

Available in four different thicknesses. Each 144-piece assortment includes four pieces each of 36 sizes (14.50-32.00mm ID). Fits Citizen, Seiko and most modern quartz watches.

	Description	Thickness	Item#	Each
F.	Watch Gasket Assortment	0.40mm	**808-0001**	**$14.95**
		0.50mm	**808-0002**	**14.95**
		0.60mm	**808-0003**	**14.95**
		0.70mm	**808-0004**	**14.95**

G. Thin O-Ring Assortment

This 144-piece assortment includes four pieces each of 36 sizes (14.50-32.00mm ID) in three thicknesses: 0.40, 0.50 and 0.60mm. Envelopes are color-coded by thickness.

Description	Item#	Each
Thin O-Ring Assortment	**808-0005**	**$59.95**

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A. Cotter Pin Assortment Kit

This comprehensive kit gives the jeweler 180 cotter pins (5 each of 36 different sizes) to adjust metal bands either during the sale or for aftermarket service. Many watches need links added or removed to customize size, and this process requires replacement cotter pins such as these to ensure proper strength of the band.

Description	Item#	Each
Cotter Pin Assortment	**820-9220**	**$29.95**

A

B. Cotter Pin Individual Sizes

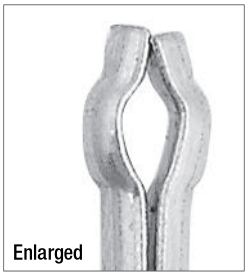
By size in packages of 10. Cotter pins to adjust metal bands either during the sale or for follow up service. Many watches need links added or removed to customize size, and this process requires cotter pins such as these to ensure proper band strength.

Description	#1	#2	#3	#4	#5	#6
Length	4.5mm	5.0mm	5.5mm	6.0mm	6.5mm	7.0mm
Item#	**820-9410**	**820-9411**	**820-9412**	**820-9413**	**820-9414**	**820-9415**
Description	#7	#8	#9	#10	#11	#12
Length	7.5mm	8.0mm	8.5mm	9.0mm	9.5mm	10.0mm
Item#	**820-9416**	**820-9417**	**820-9418**	**820-9419**	**820-9420**	**820-9421**
Description	#13	#14	#15	#16	#17	#18
Length	10.5mm	11.0mm	11.5mm	12.0mm	12.5mm	13.0mm
Item#	**820-9422**	**820-9423**	**820-9424**	**820-9425**	**820-9426**	**820-9427**
Description	#19	#20	#21	#22	#23	#24
Length	13.5mm	14.0mm	14.5mm	15.0mm	15.5mm	16.0mm
Item#	**820-9428**	**820-9429**	**820-9430**	**820-9431**	**820-9432**	**820-9433**
Description	#25	#26	#27	#28	#29	#30
Length	16.5mm	17.0mm	17.5mm	18.0mm	18.5mm	19.0mm
Item#	**820-9434**	**820-9435**	**820-9436**	**820-9437**	**820-9438**	**820-9439**
Description	#31	#32	#33	#34	#35	#36
Length	19.5mm	20.0mm	20.5mm	21.0mm	21.5mm	22.0mm
Item#	**820-9440**	**820-9441**	**820-9442**	**820-9443**	**820-9444**	**820-9445**

		Pkg. of 10
All Sold in Packages of 10	**820-9410 — 820-9445**	**$5.95**

B

Shown actual size.



Enlarged

C-E Wood Sticks

Great multipurpose items. Can be used as a disposable mixing stick or applicator when gluing. Great for use a dop stick for placing small parts. Use to accurately apply luminous pigment to watch hands. Available in round soft sticks, 6" in length. Select between pegwood and white birch.

Pegwood sticks are easily shaped to fit your specific need. Packaged in bundles of 24.

			PKG. of 24	
Pegwood	Diameter	Item#	1-9	10+
C. Round	2mm	**825-1201**	**$10.00**	**$8.50**
	2.5mm	**825-1202**	**10.25**	**8.71**
	3mm	**825-1203**	**10.50**	**8.93**
	4mm	**825-1204**	**10.75**	**9.14**

C

D

E

White birch sticks have one end shaped and include 25 sticks in a package.

			PKG. of 25	
White Birch	Diameter	Item#	1-3	4+
D. Round, pointed	1/8"	**825-0551**	**$11.85**	**$10.67**
	1/4"	**825-0557**	**11.85**	**10.67**
E. Round, double-beveled	1/8"	**825-0541**	**11.85**	**8.89**
	1/4"	**825-0547**	**11.85**	**10.67**

All prices subject to change without notice.

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A, B Double-Shoulder Spring Bars

Available in 100-piece plastic boxes of individual diameters and lengths, 200-piece extra-thin, thin and regular sets of assorted lengths and 400-piece extra-thin/regular combination set of assorted lengths. Each set includes 20-piece plastic bottles of each length.

	Description	Item#	Each
A.	400-Piece Extra-Thin/Regular Combination Set	**820-9215**	**$29.95**
B.	200-Piece Extra-Thin Set	**820-9200**	**16.95**
	200-Piece Thin Set	**820-9205**	**14.95**
	200-Piece Regular Set	**820-9210**	**14.95**

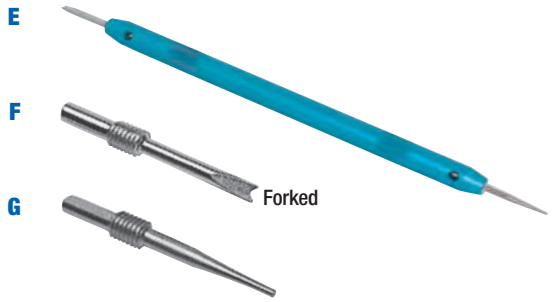
C. 100-Piece Plastic Boxes of individual diameters and lengths.

Length	Extra-Thin 1.30mm	Thin 1.45mm	Regular 1.78mm
1/4"	**820-9120**	**820-9140**	**820-9164**
5/16"	**820-9122**	**820-9142**	**820-9166**
3/8"	**820-9124**	**820-9144**	**820-9168**
7/16"	**820-9126**	**820-9146**	**820-9170**
1/2"	**820-9128**	**820-9148**	**820-9172**
9/16"	**820-9130**	**820-9150**	**820-9174**
5/8"	**820-9132**	**820-9152**	**820-9176**
11/16"	**820-9134**	**820-9154**	**820-9178**
3/4"	**820-9136**	**820-9156**	**820-9180**
13/16"	**820-9138**	**820-9158**	**820-9182**
7/8"	–	**820-9160**	**820-9184**
15/16"	–	**820-9162**	**820-9186**
1"	–	–	**820-9188**
Box of 100	**$3.95**	**$3.95**	**$3.75**

D. Spring Bar Changing Tool

Tempered tips make this bar changing tool a twin of the famous brand—at a price savings with no loss in quality. Measures 5" long.

	Description	Item#	Each
D.	Spring Bar Changing Tool	**820-9195**	**$4.95**
	Replacement Round Blade	820-9196	0.95
	Replacement Forked Blade	820-9197	0.95



E-G Metal Spring Bar Tool

Tips are stronger than those of conventional spring bar tools but have the same thread for interchangeability. Measures 5 1/8" long.

	Description	Item#	Each
E.	Metal Spring Bar Tool	**820-9192**	**$7.50**
F.	Replacement Forked Tip	820-9194	1.30
G.	Replacement Straight Tip	820-9193	1.30

H, I Probe

Multi purpose tools for electronics, chemistry and watch making. Make of high performance PEEK reinforced with carbon fiber. Can be used for a variety of operations such as positioning aid for assembly, spatula for applying adhesives, stirring rod for the preparations of adhesives, scraper to remove solder masking agents and adhesive coatings. Both measure 5 3/4" (150mm) in length.

	Description	Item#	Each
H.	Straight	**820-9199**	**$13.20**
I.	Bent	**820-9198**	**15.25**

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A. Spring Bar Bending Pliers

These unique and practical spring bar bending pliers delicately bend spring bars of any size to the proper shape. Feature stainless steel box-joint construction with high-impact grooved nylon jaws that hold the spring bar in place while bending. Measure 5" long.

Description	Item#	Each
Spring Bar Bending Pliers	**180-0294**	**$14.95**

B. Clip Spring Removing Pliers

Use for adjusting the length of Seiko style watch bands. The flat jaw rests atop the link, and the pointed tip fits under the clip spring. Gently squeeze the handles, and the clip spring pops up, ready for easy removal. Measure 5½" long.

Description	Item#	Each
Clip Spring Removing Pliers	**820-9069**	**$9.45**

B

C. Hole Punching Pliers

Punch precise 1.5mm holes in leather watchbands. Feature return spring for smooth action and comfort handles for secure grip. Made of the finest steel for durability. Measure 5¾" long.

Description	Item#	Each
Hole Punching Pliers	**820-9074**	**$10.95**

C

D. Watch Bracelet Screw Remover

Removes double-ended screws quickly and easily. Features one fixed screwdriver blade and one turnable blade perfectly aligned with each other. Eliminates the hassle of removing stubborn double-ended screws with ordinary screwdrivers. Has high-impact glass-filled nylon body and easy-to-replace tempered steel blades. Made in Switzerland.

Description	Item#	Each
Watch Bracelet Screw Remover	**820-9085**	**$19.95**
Replacement 0.80mm Blade	820-9086	3.95
Replacement 1.00mm Blade	820-9087	3.95

D

E. Watch Strap Notching Pliers

Stainless steel cutter for notching watch straps, cuts notches 3mm wide. Overall length 5".

Description	Item#	Each
Watch Strap Notching Pliers	**180-0293**	**$12.50**

E

F. Demagnetizer/Magnetizer

Electric tool perfect for demagnetizing and magnetizing tweezers, screwdrivers and other small tools and parts. Features high power-to-weight ratio and unbreakable plastic housing. Electrical: 120V, 300W. Opening measures 3"W x 1½"H.

Description	Item#	Each
Demagnetizer/Magnetizer	**813-2100**	**$74.50**

F

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A. Mesh Bracelet Cutter

A beveled-cylinder cutting tool useful for cutting not only mesh bands but also solder wire and small pieces of sheet metal. Provides maximum cutting leverage with its long handle. Cuts much faster than hand saws. Measures 6"L x 4"W.

Description	Item#	Each
Bracelet Cutter	**840-4215**	**$55.00**

B. Link and Spring Bar Remover

An indispensable tool to the watchmaker. Ideal for removing stubborn links and Westar-type spring bars. Includes 0.40, 0.60, 0.80, 1.00, 1.50 and 2.00mm pins for use in all bracelet types. Also includes screwdriver with 2.50mm tip for screw-type spring bar removal. Weighs just over 1 lb.

	Description	Item#	Each
B.	Link and Spring Bar Remover	**820-9275**	**$25.50**
	Replacement Pin Set (6)	820-9276	6.50

C. Pin Removing Set

Perfect for removing friction pins from watch bracelets. Includes grooved wooden block for holding bracelets securely without marring, small ball-peen hammer and 0.80mm and 1.00mm pin removing punches. Just tap punches lightly to remove pins.

	Description	Item#	Each
C.	Pin Removing Set	**820-9075**	**$19.95**
	Replacement 0.80mm Punch Tip	820-9076	0.89
	Replacement 1.00mm Punch Tip	820-9077	0.89

D. Pin Remover

Handy tool for removing pins from metal link bands. Keltec II glass-filled nylon body will not scratch or mar gold or silver. Includes two extra spacers to accommodate all bracelet sizes and two extra push pins. Pusher pin is made of hardened tool steel. Large screw with knurled handle guides the pusher pin into place.

Description	Item#	Each
Pin Remover	**820-9071**	**$15.15**

E. Pin Pusher

Handy for pushing stubborn pins out of watch bracelets when changing links for sizing. Slightly flattened tip prevents slipping. Made of hardened tool steel with hardwood handle. Measures 4¾" long.

Description	Item#	Each
Pin Pusher	**820-9070**	**$4.20**

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A. Screwdriver Set in Rotating Stand

Includes nine color-coded setscrew screwdrivers, 19 spare blades, two extra setscrews and rotating stand for easy access and compact storage. Made in France.

	Description	Item#	Each
A.	Screwdriver Set in Rotating Stand	**820-9010**	**$53.50**
	Description	**Item#**	**Pkg. of 3**
	0.60mm Blades	820-9011	$1.30
	0.80mm Blades	820-9012	1.30
	1.00mm Blades	820-9013	1.70
	1.20mm Blades	820-9014	1.70
	1.40mm Blades	820-9015	1.70
	1.60mm Blades	820-9016	1.95
	2.00mm Blades	820-9017	1.95
	2.50mm Blades	820-9018	2.40
	3.00mm Blades	820-9019	2.40

B. Screwdriver Set in Wooden Stand

Includes six color-coded screwdrivers with reversible blades in 0.60, 0.70, 0.80, 1.00, 1.20 and 1.30mm sizes. Tempered and finely ground blades are held in place by collets, not setscrews. Hardwood stand keeps screwdrivers at just the right angle for easy selection. Has a storage compartment on top for a set of spare blades (included). Screwdrivers made in France.

Description	Item#	Each
Screwdriver Set in Wooden Stand	**820-9090**	**$32.95**

C. Screwdriver Set

Includes six precision screwdrivers with replaceable blades that are held firmly in the handles by means of screw chucks. Blades are made of the finest tool steel, which has been heat-treated for toughness and long wear. The hexagonal heads will not roll on bench. Bodies are plated and have a knurled grip for nonslip holding. Screwdrivers measure approximately 4" long. Made in USA.

	Description		Item#	Each
C.	Screwdriver Set		**820-9000**	**$27.75**
	0.100" Blade	3pc	820-9001	2.25
	0.080" Blade		820-9002	2.25
	0.070" Blade		820-9003	2.25
	0.055" Blade		820-9004	2.25
	0.040" Blade		820-9005	2.25
	0.025" Blade		820-9006	2.25

3pc *Three-piece minimum; please order in multiples of three.*

D. JIS Screwdriver Set

Includes four color-coded screwdrivers with hex heads, knurled handles and hardened steel blades with 90°-cornered tips designed for use on watches. Excellent for electronics, computer and camera repair. Screwdrivers measure 4½" long. Made in Europe.

	Description	Item#	Each
D.	JIS Screwdriver Set	**820-9023**	**$18.25**
	1.20mm Gray Screwdriver	820-9024	4.55
	1.50mm Violet Screwdriver	820-9032	4.55
	2.00mm Green Screwdriver	820-9033	4.55
	2.50mm Blue Screwdriver	820-9034	4.80

E. Combo Screwdriver Set

Includes four flat-head screwdrivers (1.0, 1.20, 1.80 and 2.40mm) and two Phillips screwdrivers (#0 and #1) with hexagonal swivel heads. Packaged in a hard plastic box.

Description	Item#	Each
Combo Screwdriver Set	**820-8900**	**$2.95**

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A

Side 1 Side 2

A. V-Slot Anvil

Steel anvil used as a base for staking, riveting and drilling small parts. Case-hardened and ground flat and smooth. Features V-slot for removing pinions and other small items. Has nine graduated holes (one for stumps) and five milled slots. Measures 1¾"L x 1¼"W x ½"H.

Description	Item#	Each
V-Slot Anvil	**814-1015**	**$19.10**

B

B. Screwdriver Sharpener

Stop throwing out screwdriver blades. This handy little device keeps your screwdriver blade locked in place so you can reshape and resharpen. Steel wheels on each end are carefully set into the body to provide even action when wheeled over a stone. Use with our sharpening stones (see page 28-34) to produce a precision-edged blade that's as good as new. Measures less than 2" wide.

Description	Item#	Each
Screwdriver Sharpener	**820-8390**	**$12.40**

C

C. Watch Tissue

Lint-free anti-tarnish tissue for wrapping and cleaning watch parts, jewelry and much more. Measures 4" x 4". Sold in boxes of 1,000 sheets.

Description	Item#	EACH Prices 1-2	3+
Watch Tissue, box of 1,000	**813-1725**	**$6.75**	**$6.41**

D

D. Dust Blower

This rubber dust blower removes specks and lint from hard-to-reach areas. Keeps moisture away from delicate parts. Measures 3¾"L x 1¾"W.

Description	Item#	Each
Dust Blower	**820-9078**	**$3.95**

E

E. C-Clear Watch Crystal Compound

Removes scuffs and scratches to make old plastic watch crystals look new again. Sold in ¼ lb. bars.

Description	Item#	Each
C-Clear Watch Crystal Compound	**215-0041**	**$6.20**

F

F. Crystal Cement

Provides a strong, durable bond between plastic and glass watch crystals and the bezel. Will not flake off or crack plastic. Sold in convenient ⅓ fl. oz. tube with pinpoint applicator tip.

Description	Item#	EACH Prices 1-2	3+
Crystal Cement, ⅓ fl. oz.	**811-2540**	**$5.35**	**$4.82**

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Representative items pictured; actual items may vary.

A. Professional Jeweler's Bench Tool Set

A money-saving set of basic tools and supplies needed by each bench worker. Includes all items listed below except additional items in bottom-right corner. Can not be shipped US mail due to liquids. All items can also be purchased individually—refer to specific page numbers given for detailed product information.

Description	Item#	Each
Professional Jeweler's Bench Tool Set	**810-0050**	**$1,615.00**

Bench Items:	**Page**
Bench Brush	133
Stiff Hand Brush	133
SELVYT Cloth	153
Mandrels (6 pcs.)	460
SUPRA Brushes (1 dz.)	126
GK-10 Pumice Wheel (100 pcs.)	80
Safety Goggles	331
Swiss Half-Round Ring File, 6"	296
File Handle #4	299
Swiss Needle Files (set of 12)	305
File Card	309
Emery Hand Buffs (2 pcs.)	70
Bobbing Compound (1 lb. bar)	100
Red Rouge (1 lb. bar)	101
Wire and Sheet Gauge	366
Baker Diamond Gauge	366
Pocket Vernier Caliper	351
Ruler, 6"	353
Flat Sawframe	481
SUPRA Sawblades (4 gross, assorted)	483
Curved Snips	385
Chain Pliers, 5¼"	372
Flat Pliers, 5¼"	372
Round Pliers, 5¼"	372
Diagonal Cutting Pliers, 5¼"	372
Ring Bending Pliers	380
Ring Forming Pliers	380
Ring Holding Pliers	380
Bench Block	324
Ring Mandrel	325
Chasing Hammer	321
Rawhide Mallet	318
Brass/Nylon Mallet	319
Lube-Stik	159
Automatic Center Punch	254
Needle Scriber	293
Prong Lifter	488
Adjustable Scraper	503
Divider	353
Blue Ribbon Drill Set A	252
Degree Gauge #5	352
Pin Vise	550
Jewelry Making Book	586

Stone Setting Items:	**Page**
HS Hart Burs (set of 33)	161
Krause Burs (6 pcs.)	158
Cup Burs (set of 12)	160
Stone Setting Pliers	379
Swiss Beading Tools (set of 12)	493
Beading Plate (holds 12 beads)	493
Beeswax	494
Curved Burnisher	490
Bezel Pusher	488
Prong Pusher	488
Bezel Roller	488
Ring Clamp	412
Hastings 10X Triplet Loupe	342
HS Round Graver	285
HS Knife Gravers (2 pcs.)	285
HS Flat Gravers (2 pcs.)	285
Graver Handle #5	291
Soft Arkansas Bench Stone	31
Diamond D Cement	487
Millgrain Holder	492
French Millgrain Wheels (2 pcs.)	492
Diamond Tweezers	545

Soldering Items:	**Page**
Solderite Soft Soldering Pad, 6" x 6"	507
Solder Pick	503
Flux Brush #3	134
Hard Soldering Flux	501
Optivisor	345
Electric Pickler	510
Pickling Compound	510
Copper Tongs	511
Economical Tweezers	546
Cross-Locking Tweezers	547
Ring Set Soldering Tweezers	548
Head and Shank Tweezers	548

Additional Items You'll Need for Setting up a New Shop:	**Pages**
Workbench and Chair	566
Work Lamp	335–339
Torch Kit	522–525
Flexible Shaft	436–437
Steam Cleaner	243–245
Ultrasonic Cleaner	236–239
Rolling Mill	414–418
Polishing Equipment	395–399

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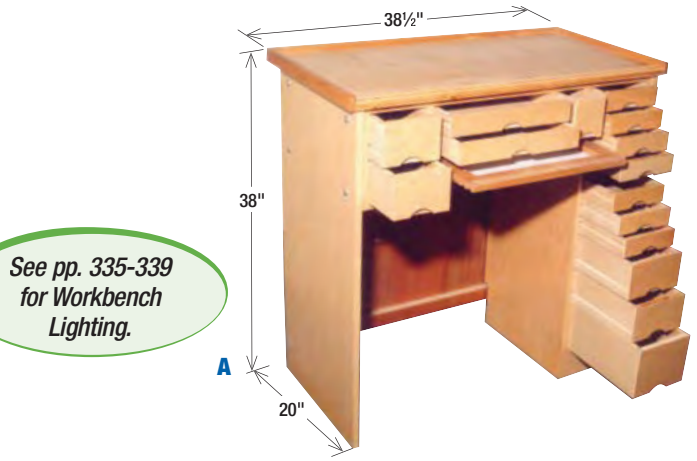
See pp. 335-339 for Workbench Lighting.



A. Watchmaker's Workbench

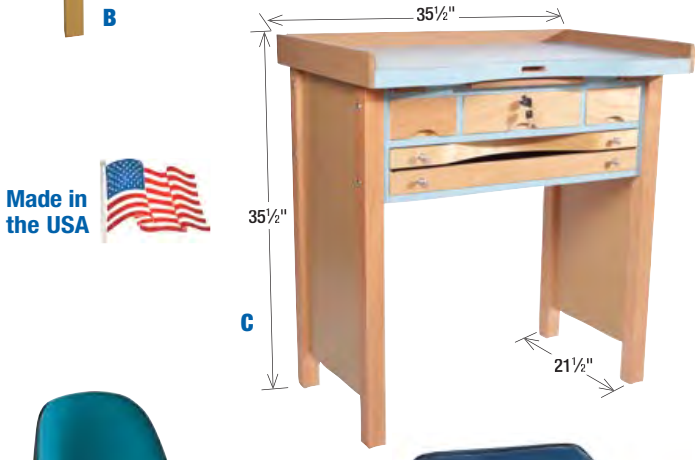
A classic, high-quality workbench for watchmakers, jewelers and engravers. Constructed of the finest hardwood, making it perfectly suitable for storefront use. Features solid wood top with railing, full-length side and back panels, fifteen drawers in a range of heights for keeping tools organized and a handy 18" wide cloth tray for catching bench sweeps. Measures 38½"W x 20"D x 38"H. Ship. wt: 140 lbs. ***Ships via truck only.***

Description	Item#	Each
Watchmaker's Workbench,	**810-1601**	**$799.00**

B. Solid Wood Workbench

A fine workbench with a natural finish at an affordable price. Features sturdy wood top with 1" railing, full-length side and back panels, two-tier tool tray, three side drawers and metal-lined pan for catching bench sweeps. Includes two pullout armrests, bench pin and two mandrel holes. Assembly required (instructions supplied). Measures 38¾"W x 19½"D x 39"H. Ship. wt: 84 lbs. Imported. ***Ships in two boxes via UPS. Oversize shipping rates apply.***

Description	Item#	Each
Solid Wood Workbench	**810-1785**	**$315.00**



Made in the USA

C. Workbench – Laminated top!

A great heavy duty workbench perfect for small spaces, 1½" thick, laminated top, 3 spacious drawers, two aluminum catch trays, two pull-out arm rests, pre-drilled slot for a bench pin and a large pull-out workspace. Comes in 1 box; unassembled. Measures 35½"W x 21½"D x 35½"H. Ship. wt: 130 lbs. Made in USA.

Description	Item#	Each
Workbench,	**810-1608**	**$530.00**

D. SmartStool 61™

The high-quality swiveling chair with ergonomic, adjustable design for unmatched comfort and convenience. Boasts separate controls for seat and backrest height and angle, ultra-soft seat cushions for superior comfort, adjustable foot-ring for lower leg support and steel base with anti-scuff nubs. Measures 18½"W x 20¼"D x 34¼"–39½"H. Seat height from floor: 16"–21¼". Ship. wt: 47 lbs.

Description	Item#	Each
SmartStool 61	**810-1808**	**$502.00**

For more chair options visit www.gesswein.com

E. Adjustable Bench Chair

An economical yet sturdy swiveling chair. Provides ample support for reduced fatigue. Features separate controls for making seat and spring back adjustments, Naugahyde cushions and durable rubber cushioned casters for smooth rolling. Seat height from floor: 16"–24".

Description	Item#	Each
Adjustable Bench Chair	**810-1800**	**$186.50**

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A. Master Ring Sizing Vise Set

Designed by a goldsmith, this set makes ring sizing faster and safer. Yields outstanding results each and every time. Includes two wooden bench pins: one with measuring gauge, middle long slot for cutting shapes, two rubber posts for cutting rings, locking posts for holding delicate items, front slot for cutting stock and front pin for sanding; the other with a single upright nonslip peg for bracing rings during the cleanup phase of sizing. Includes instructional DVD.

Description	Item#	Each
Master Ring Sizing Vise Set	**814-0980**	**$62.00**

A

B. Bench Pin

Standard reversible wooden bench pin for both single and double workbenches. Made to fit tightly but may require some minor adjustments. Used for support when filing or sawing. Measures 6¼"L x 2⅝"W x 1⅛" thick. Tang measures approx. 1½"L x 2⅝"W x ½" thick.

		EACH Prices		
Description	Item#	1-11	12-143	144+
Bench Pin	**814-1000**	**$3.25**	**$2.76**	**$2.28**

B

C. Bench Pin and Anvil

A portable, versatile device for hammering, sawing, filing and flattening. Securely attaches to bench or table with 1½" overhang up to 1¾" thick. Anvil area measures 2¾" x 3". Wooden bench pin measures 4"L x 2¼"W. Tang measures approx. 1½"L x 2¼"W x ⅜" thick.

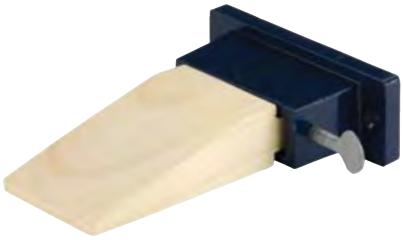
Description	Item#	Each
Bench Pin and Anvil	**814-1010**	**$15.65**
Replacement Bench Pin	814-1011	2.70

C

D. Bench Pin and Holder

Can be easily screwed into edge of workbench. Bench pin measures 4"L x 2¼"W x 1" thick with 1¼"L x 2¼"W x ¾" tang. Holder measures 4" wide with 2¼"W x ¾"H opening and thumb screw for securing bench pin firmly in place.

Description	Item#	Each
Bench Pin and Holder	**814-1005**	**$8.95**
Replacement Bench Pin	814-1006	2.70



D

E. Ring Sizing Bench Pin

Screws to top of bench. Shaped especially to hold rings. Has channel for guiding sawblade. Measures 5½"L x ¾"W x ⅜" thick.

Description	Item#	Each
Ring Sizing Bench Pin	**814-0990**	**$2.95**

E

F. Slotted Bench Pin with Clamp

This reversible wooden bench pin clamps to the edge of any workbench with a surface up to 1⅞" thick. Has a deep V-slot and a straight slot for drilling, sawing and securing ring clamps. Measures 7½"L x 2¼"W x ½" thick.

Description	Item#	Each
Slotted Bench Pin with Clamp	**814-0995**	**$5.90**

F

G. Rubber Bench Filing Block

Provides a 3¼" extension off the workbench. Consists of rubber block, iron frame and steel anvil. Rubber block serves as a rest for work to be filed, prevents work from slipping and protects objects from being marred. Measures 5"L x 2¼"W.

Description	Item#	Each
Filing Block	**814-0985**	**$17.60**
Replacement Rubber Block	814-0986	3.75

G

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GRS® BenchMate™ A unique work holding system that no jeweler should be without!

The BenchMate complete holding system makes jewelry fabrication and repair faster and easier. Mounts on the front of the workbench at a convenient height to provide support for workpieces, reducing slippage and user fatigue. Completely adjustable pivoting holder positions workpiece and holds it securely while engraving, setting, soldering and more. Removable hand rest provides extra stability, helping you do better work with less effort. Precision-machined steel construction ensures longevity. Tough plastic jaw inserts help prevent marring. Can be used with both hand and power tools. To make your BenchMate "Left-Hand" simply turn your ring holder 180° and add a Left-Hand Arm Rest #856-0175. Made in USA.

Made in the USA

A. GRS® BenchMate™ Basic Package

Includes ring clamp and holder, removable hand rest, extra jaw inserts (two pairs), fixed mounting plate, shellac pad, mounting hardware and tools. Made in USA.

	Description	Item#	Each
A.	Right-Hand Basic Package	**856-0182**	**$248.00**
	Left-Hand Arm Rest*	**856-0175**	**16.17**

B. GRS® BenchMate™ Deluxe Package

Includes ring clamp and holder, removable hand rest, extra jaw inserts (two pairs), fixed mounting plate, shellac pad, third hand tweezers, bench pin with mount, two soldering clamps (narrow and wide), mounting hardware and tools. Made in USA.

	Description	Item#	Each
B.	Right-Hand Package	**856-0184**	**$335.00**
	Left-Hand Arm Rest*	**856-0175**	**16.17**

C. GRS® BenchMate™ Plus Package

Includes ring clamp and holder, removable hand rest, extra jaw inserts (two pairs), fixed mounting plate, shellac pad, two third hand tweezers, bench pin with mount, two soldering clamps (narrow and wide), soldering pad assembly, mounting hardware and tools. Made in USA.

Description	Item#	Each
Right-Hand Plus Package	**856-0181**	**$399.00**
Left-Hand Arm Rest*	**856-0175**	**16.17**

D. GRS® BenchMate™ Setter's Package

Includes ring clamp and holder, removable hand rest, extra jaw inserts (two pairs), fixed mounting plate, shellac pad, bench pin with mount, inside ring holder, mounting hardware and tools. Made in USA.

Description	Item#	Each
Right-Hand Setter's Package	**856-0213**	**$362.00**
Left-Hand Arm Rest*	**856-0175**	**16.17**

To make your BenchMate "Left Hand" simply turn your ring holder 180° and add a Left Hand Arm Rest #856-0175.

GRS® BenchMate™ Replacement Parts

Description	Item#	Each
Jaw Inserts, 5 pairs	856-0197	$7.99
Fixed Mounting Plate	856-0196	18.95
Shellac Pad	856-0186	4.95
Third Hand Tweezers	856-0190	39.95
Bench Pin with Mount	856-0192	29.95

Description	Item#	Each
Narrow Soldering Clamp	856-0188	$9.90
Wide Soldering Clamp	856-0194	9.90
Soldering Pad Assembly (4" x 4" non asbestos soldering surface)	856-0195	32.95
Friction Washer	856-0199	3.12

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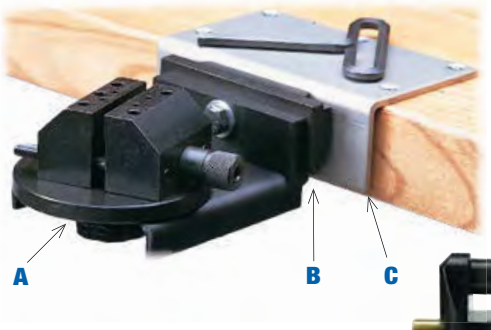
A-C GRS® BenchMate™ Multipurpose Vise

Attaches to BenchMate or directly to your bench. Tilts left and right and rotates on vertical axis so you can find the best working angle. Features holes in top for holding pins or the padded ring clamp from GRS 30-Piece Attachment Set #856-0277 (see p. 288). Made of satin-finished steel. To mount, fit in Fixed Mounting Plate, secure to Benchtop Mounting Adapter, then screw into bench. Made in USA.

Description	Item#	Each
A. Multipurpose Vise	856-0172	$168.00
B. Fixed Mounting Plate	856-0196	18.95
C. Benchtop Mounting Adapter	856-0193	25.95



Made in the USA

D. GRS® BenchMate™ Inside Ring Mandrel

Expands to hold rings securely.

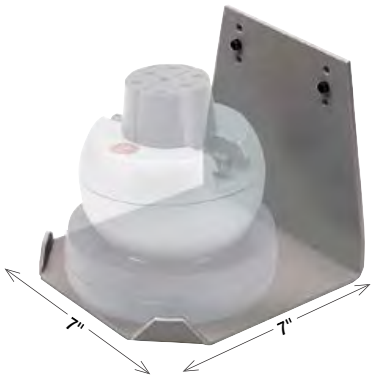
A valuable, timesaving addition to the workbench. Holds rings from the inside to provide improved access for a variety of applications, especially setting. Easily handles hard-to-hold tapered and delicate designs that can be crushed by ordinary ring clamps. Includes seven different mandrels for holding ring sizes 4-13 without marring. Select the closest mandrel for each ring, then expand it by turning the screw until the ring is secure. Fits into any BenchMate collar or can be used by itself. Made of solid steel. Made in USA.

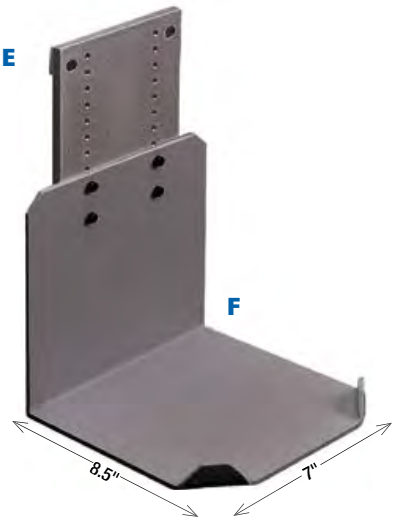
Description	Item#	Each
Inside Ring Mandrel	856-0210	$88.00

E, F GRS® BenchMate™ Engraver's Block Shelves

Two different heavy-gauge metal shelves for securely holding your engraver's block at the absolute perfect working height. Let you maintain correct posture for minimizing fatigue throughout the workday. Use Standard Shelf for any engraver's block (see pp. 288-289). Use the Large Shelf with Height Adjustment Bracket for GRS Positioning Vise #271-3025 (see p. 348). Height Adjustment Bracket also sold separately (see "G" below) for retrofit onto Standard Shelf to give you better flexibility. Made in USA.

Description	Item#	Each
E. Standard Shelf	856-0198	$39.95
F. Large Shelf with Height Adjustment Bracket	856-0173	79.95





G. GRS® BenchMate™ Height Adjustment Bracket

Simply attach this sturdy steel bracket to your Standard Shelf (see above) for improved range of height adjustment. Made in USA.

Description	Item#	Each
Height Adjustment Bracket	856-0174	$49.95

H. GRS® BenchMate™ Insulated Solder Clamp

Won't absorb heat!

Features unique jaws made of non asbestos solder board material. Perfect for gripping items securely without marring. Keeps heat isolated within the workpiece—where it belongs for maximum safety. One jaw is stationary, and the other opens and swivels for conforming to uneven surfaces. Made in USA.

Description	Item#	Each
Insulated Solder Clamp	856-0212	$54.95

I. GRS® BenchMate™ Tungsten Tweezers Tips

Replace the standard tips of your BenchMate third hand for soldering platinum without risk of contamination. Medium points. Sold by the pair. Made in USA.

Description	Item#	PKG
Tungsten Tweezers Tips, pair	856-0191	$19.90

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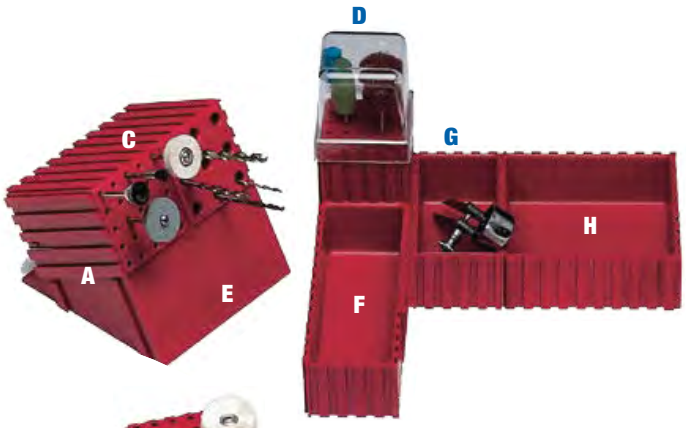

A-H Modular Tool Holder System

Consists of completely modular bur and tool holders that you interlock to form the most efficient configuration for your bench. Lets you design a tool holder for any work surface, no matter how small. Modules slide together and apart neatly for easy reconfiguration. Made of hard, thick plastic durable enough to withstand years of wear and tear.

	Description	Item#	Each
A.	2" Square w/ 25 holes, 2.35mm (3/32")	840-0150	$2.25
B.	2" Square w/ 25 holes, 3.5mm (1/8")	840-0155	2.25
C.	2" Square w/ 9 holes, 6.7mm (1/4")	840-0160	2.25
D.	Clear Plastic Cover (fits over Square)	840-0165	0.75
E.	Wedge (holds Squares/Trays at good working angle)	840-0170	2.95
F.	2" x 4" Tray	840-0190	1.50
G.	2" x 5 7/8" Tray	840-0175	1.75
H.	4" x 4" Tray	840-0200	2.25

I. Needle File Stand

Keeps needle files organized and accessible

This attractive metal stand conveniently holds and displays up to 12 needle files in 4", 5 1/2" or 6 1/4" lengths. Freestanding on workbench, hanging on peg or snapped closed for carrying, it keeps your frequently used files visible and handy at all times. File not included.

Description	Item#	Each
Needle File Stand	704-3070	$23.84

J. Handy Block – For 3/32" or 1/8" Shanks

Cured hardwood block with 88 holes for burs or tools with 3/32" or 1/8" shanks. Slanted design lets you see all items at a glance. Stay-put rubber pads prevent sliding. Measures 6" x 4 1/2".

Description	Holes	Item#	Each
Handy Block	3/32", 1/8"	814-1215	$14.95

K. Bench Duster – Wooden Handle

Contains four rows of 1 1/2" long medium natural bristles. Ideal for cleaning dust from surfaces. Measures 9 3/4" long.

Description	Face Size (L x W)	Item#	EACH Prices 1-2	3-11	12+
Bench Duster	4" x 3/4"	115-2260	$10.25	$9.23	$8.20

L. Wooden Bur Boxes – For 3/32" Shanks

Sturdy, attractive wooden boxes for holding burs or tools with 3/32" shanks.

	Description	Item#	Each
L.	200-Hole Box	814-1200	$25.75
	100-Hole Box	814-1205	13.50
	36-Hole Box	814-1210	7.95

M, N Rotating Bur Holders – For Burs and Tools

Tiered plastic stands rotate on ball bearings for smooth action. Measure 7" dia. x 4"H.

Style 126
- 45 holes for burs with 1/16" shanks
- 69 two-step holes for burs with 3/32" or 1/8" shanks
- 12 holes for burs with 1/4" shanks

Style 112
- 92 holes for burs with 3/32" or 1/8" shanks
- 13 holes for burs with 1/4" shanks
- 7 holes for 1/16" to 5/32" drills
- 2 3/4" dia. x 3"H center cup for hand tools

	Description	Shank Size	Item#	Each
M.	Style 126	1/16", 3/32" or 1/8", 1/4"	850-0004	$16.55
N.	Style 112	1/16" to 5/32", 3/32" or 1/8", 1/4	850-0006	16.55

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A. Wooden Tool Holder/Organizer

Let Gesswein help organize your bench! The 6-sided bur & tool holder is made of solid durable wood and rotates like a lazy susan. It's ideal for safe keeping of your various bench tools such as gravers, files, burs and mounted abrasives.

Holds an amazing amount of tools in a small 7½" x 7½" footprint. Each of the 6 sides plus the top have a variety of hole sizes to fit just about any tool. Sides have a total of:

(42) 7.5mm holes

(48) 4mm holes (which will hold ⅛" and 4mm shank tools)

(288) 3mm holes (which will hold 3/32" and 3mm shank tools)

Additionally 2 sides feature a 3⅛" long magnetic strip to hold pliers or other tools.

Top has (37) 12mm holes: 18 shallow holes for graver handles and small tools and 19 holes in the center that perforate the top and extend 8" down into the caddy so you can store long files, gravers, etc. The top can also be removed so you can store larger items inside.

The bur & tool holder stands 9½" high overall and requires a minimum 7½" x 7½" in order to rotate, more with tools in it. Shipping weight: 6 lbs.

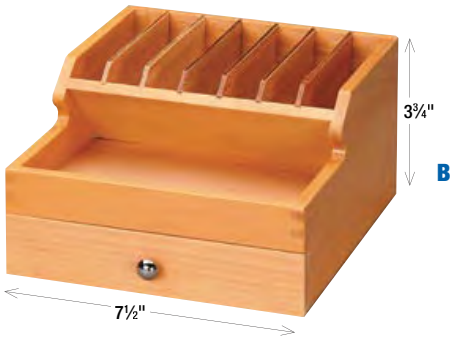
Description	Item#	Each
Wooden Tool Holder	**816-4058**	**$49.50**

All accessories sold separately.

B. Plier and Tool Organizer

Beautifully made yet practical wooden organizer with seven open compartments for pliers, open space below for various small tools and a drawer for those small parts so essential to every bench. Made of hardwood (except pressboard plier spacers) with dovetailed joints and varnished finish. Measures 7½"W x 6½"D x 3¾"H.

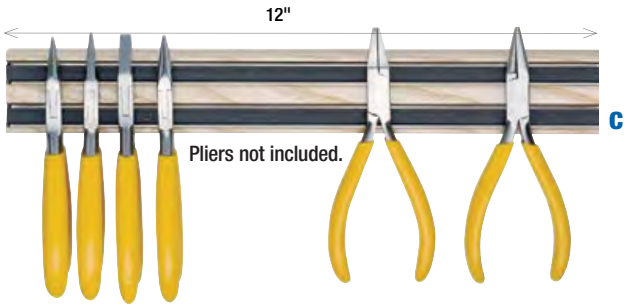
Description	Item#	Each
Plier and Tool Organizer	**816-4057**	**$19.95**



C. Magnetic Tool Holder

A handy 12" strip with permanent magnets for holding pliers, screwdrivers, tweezers and other tools. Helps keep bench clutter-free. Allows easy access to tools. Screws into surface for sturdiness.

Description	Item#	Each
Magnetic Tool Holder	**840-0008**	**$31.40**



D. Quatro Air Wedge Collection Port

A versatile collection port for recovering precious metal dust right at your bench. Pulls dust and contaminants away from your face before you breathe them in. Perforated base ensures particles stay within the work area. Clear plastic shield lifts off for easy access to tray below. Flange can be positioned under or behind unit for connection to hose leading to dust collector. Blast gate lets you cut off airflow when unit is not in use. Measures 12"W x 10"D x 10"H with 3" diameter inlet. Made in Canada.

Description	Item#	Each
Air Wedge Collection Port	**854-1386**	**$186.00**

E. Klear-Vue Safety Shield

Sturdy, crystal-clear plastic shield almost 3/8" thick. Protects you from flying debris while you work at the bench. Has cutouts for your wrists that allow you to hold your hands and tools at a normal working angle. More comfortable and convenient than a grinding box—use when gold containment is not a factor. Provides an extra barrier that protects face, neck and clothing from dust and dirt kicked up by abrasive wheels, polishing compounds and more. Does not eliminate the need for safety glasses. Measures 7"W x 6⅛"D x 9⅞"H.

Description	Item#	Each
Klear-Vue Safety Shield	**857-1000**	**$82.00**

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A

B

A. Bib Apron with Pockets

Protects clothing and holds most frequently used tools close at hand. Includes extra-long waist strings for front tying. Made of machine washable heavyweight cotton. Available with or without pockets. Comes in royal blue with our white, screen-printed Gesswein logo. Measures 18½"W x 25"L. Made in USA.

	Description	Item#	Each
A.	Bib Apron with pockets	**827-1201**	**$19.99**
	Bib Apron without pockets	**827-1200**	**17.95**

B. Suede Bib Apron

This durable, comfortable apron protects clothing while you work with power equipment and hand tools. Convenient pencil pocket, no other pockets in which debris can be trapped. Made of tanned, split, rust-colored heavyweight suede. Includes adjustable ties with brass grommet reinforcements. One size fits all. Measures 24"W x 36"L.

Description	Item#	Each
Suede Bib Apron	**827-1507**	**$32.00**

C

D

C. Fire-Resistant Apron

Made of fire-resistant fabric ideal for welding applications. Features full-coverage design for protection of neck, chest and lap, small chest pocket, large waist pocket, bottom flap for catching runaway parts, comfortable neck band and extra-long waist strings for front tying. Comes in navy blue. One size fits all. Measures 27"W x 36"L.

Description	Item#	Each
Fire-Resistant Apron	**827-1508**	**$27.80**

D. Lab Coat

Full-length coat with long sleeves, notched lapel, hemmed cuffs and bottom. Includes two breast pockets, two hip pockets and reinforced side slit for easy access to inside pocket. Made of permanent-press, washable polyester/cotton blend. Comes in white with royal blue embroidered Gesswein logo. Can be burned to reclaim precious metals. Made in USA.

	Description	Fits Sizes	Item#	Each
	Small Men's Coat	36–38	**827-1500**	**$58.50**
D.	Medium Men's Coat	40–44	**827-1501**	**58.50**

E

F

E, F Neoprene Apron and Sleeves

Heavy-duty double-coated yellow neoprene apron and sleeves for frontal body and lower-arm protection from a wide range of chemicals, including caustics and solvents. Apron features extra-long neck and waist ties. Weighs 12½ oz. Recyclable. Sleeves feature elastic cuffs on both ends for secure fit. Sold by the pair.

	Description	Item#	Each
E.	Apron, 35"W x 45"L	**827-1509**	**$29.95**
F.	Sleeves, pair, 18"L	**827-1510**	**9.20**

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A. White Cotton Gloves

Keep your jewelry, silverware and small parts fingerprint-free to maintain high luster finish. Very good for handling merchandise for packing. Available in light and medium weight cotton. Small gloves measure 8", regular 9" and large are 10" in length.

Description	Item#	DOZEN Prices 1-2	3-11	12+
Small Light Weight, 12 pairs	**805-1030**	**$7.95**	**$7.16**	**$6.36**
Regular Light Weight, 12 pairs	**805-1032**	**9.50**	**8.55**	**7.60**
Large Light Weight, 12 pairs	**805-1033**	**8.95**	**8.06**	**7.16**
Small Medium Weight, 12 pairs	**805-1055**	**11.95**	**10.76**	**9.56**
Regular Medium Weight, 12 pairs	**805-1056**	**14.35**	**12.92**	**11.48**
Large Medium Weight, 12 pairs	**805-1057**	**15.95**	**14.36**	**12.76**

A

B. Latex Gloves

Disposable latex gloves for everyday use. Prevent skin problems that arise from chemical reactions caused by constant exposure to soaps, solvents and other mild chemicals. Powdered to go on easily.

Description	Item#	Box of 100
Small Gloves	**805-1043**	**$14.95**
Medium Gloves	**805-1041**	**14.95**
Large Gloves	**805-1042**	**13.95**

B

C. MicroFlex® UltraSense™ Powder-Free Nitrile Glove

The alternative to latex!

Powder-free UltraSense is a breakthrough in nitrile technology, providing the fit and feel of latex while eliminating the possibility of natural rubber latex allergic reaction. Provides reliable barrier protection against many hazardous and infectious substances. Highly elastic for easy conformance and reduced fatigue. Textured fingertips offer excellent grip in wet or dry conditions. Ambidextrous. Beaded cuff. Polymer-coated for easy donning. Length: 245mm (9⅝"). Thicknesses: 5.1mil finger, 3.5mil palm. Color: blue. Sold in dispenser box of 100.

Size	Item#	Box of 50
Small	**805-1072**	**$24.75**
Medium	**805-1071**	**24.75**
Large	**805-1070**	**24.75**

C

D. MicroFlex® NeoPro® EC Glove – Ideal for rhodium plating!

Exceptional comfort in a tough synthetic glove. NeoPro EC offers the barrier protection of a synthetic with the comfort, fit and feel of natural rubber latex. Offers 90% more puncture resistance than natural rubber latex. Resists a broad range of chemicals. Ideal for rhodium plating, electrocleaning and most other plating operations. Textured fingertips provide a secure grip. Extended, beaded cuff guards against splashes and spills. Made of polychloroprene, the generic name for neoprene. Ambidextrous. Powder-free and polymer-coated for easy donning. Length: 300mm (11.8"). Thicknesses: 8.3mil finger, 6.3mil palm, 4.7mil cuff. Color: green. Sold in dispenser box of 50.

Size	Item#	Box of 50
Small	**805-1052**	**$26.75**
Medium	**805-1051**	**26.75**
Large	**805-1050**	**26.75**

D

More Finger Cots Available See pp. 470-471.

E. Latex Finger Cots

Powder-free, antistatic latex finger cots in white or pink for protection from mild chemicals. Available in small, medium and large. Sold by the gross or bulk pack of 1440pcs.

Description	WHITE Item#	GROSS Prices 1-2	3+	PINK Item#	GROSS Prices 1-2	3+
Small	**816-0250**	**$4.95**	**$4.70**	**816-0255**	**$5.25**	**$4.99**
Medium	**816-0251**	**4.95**	**4.70**	**816-0256**	**5.25**	**4.99**
Large	**816-0252**	**4.95**	**4.70**	**816-0257**	**5.25**	**4.99**

Description	WHITE Item#	Box of 1440 Prices	PINK Item#	Box of 1440 Prices
Small	**816-0260**	**$29.95**	**816-0265**	**$31.45**
Medium	**816-0261**	**29.95**	**816-0266**	**31.45**
Large	**816-0262**	**29.95**	**816-0267**	**31.45**

E

E

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A-C Work Processing Tray

A heavy-duty, rigid cardboard tray with 1" high sides for holding work in progress. Can be used alone for large parts or with either of two plastic inserts (round or rectangular) for small parts. Inserts are covered in non marring, nonscratching material. Round insert has 50 round depressions, each measuring approximately 1" dia. x ½" deep. Rectangular insert has 32 rectangular depressions, each measuring approximately 1¾"L x 1½"W x ½"D.

	Description	L x W x H	Item#	EACH Prices 1-9	10+
A.	Work Processing Tray	14¾" x 8¼" x 1"	**807-1170**	**$4.25**	**$3.83**
B.	Square Insert (32)	1¾" x 1½" x ½"	**807-1179**	**4.95**	**4.46**
C.	Round Insert (50)	1" Dia. x ½"	**807-1175**	**4.90**	**4.41**

D. Shop Work Tray

This large stackable tray is made of flexible yet strong .025" thick plastic. The 100 compartments measure 1⅝"L x ¾"W x ⅝"H.

Description	L x W x H	Item#	EACH Prices 1-9	10+
Shop Work Tray	21½" x 12⅛" x 1"	**807-1066**	**$9.95**	**$8.96**

E. Black Tray with 50 Gem Jars

Black tray with foam insert to firmly hold 50 gem jars. Each jar contains foam to securely hold gems in place.

Description	L x W x H	Item#	Each
Black Tray	14¾" x 8⅜" x 1"	**807-1190**	**$11.50**

F-I Round Metal Boxes

Tin boxes for storing small stones. Sold in full packages only.

	Size	12	72	144
F.	1 5/16"	**807-1215**	-	**807-1210**
		$9.45		**$94.00**
G.	1½"	**807-1216**	-	**807-1211**
		9.75		**97.50**
H.	2"	**807-1217**	**807-1212**	-
		9.75	**$48.75**	-
I.	2⅜"	**807-1218**	-	**807-1213**
		12.15		**121.50**

J. Sorting Trays

Each has four grooves on one side and assorted sizes of holes on the other for sorting diamonds, colored stones, pearls or beads.

	Description	L x W	Item#	EACH Prices 1-2	3+
J.	Black Sorting Tray	7⅛" x 3¾"	**816-2100**	**$3.95**	**$3.56**
	White Sorting Tray	7⅛" x 3¾"	**816-2105**	**3.95**	**3.56**

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A. Black Ring Cases

Wooden cases with black velvet foam inserts for providing excellent contrast to your sparkling jewelry. Cases feature black vinyl exterior, satin interior and locking lid latches.

Description	L x W x H	Item#	Each
12-Ring Case	8¼" x 3½" x 1½"	**807-1083**	**$16.80**
24-Ring Case	8¼" x 4¾" x 2"	**807-1082**	**25.90**
36-Ring Case	8¼" x 7¼" x 2"	**807-1081**	**30.70**
72-Ring Case	14¾" x 8¼" x 2"	**807-1080**	**45.95**

A

B. Black Ring Tray

Wooden tray with black velvet foam inserts for providing excellent contrast to your sparkling jewelry. Trays have decorative hand tooling around their edges.

Description	L x W x H	Item#	Each
72-Ring Tray	14¾" x 8¼" x 1"	**807-1075**	**$13.89**

B

C, D Display Trays and Velvet Pads

Black wooden trays and vibrant velvet pads for holding and providing contrast to your jewelry. Trays available in 1½" and 2" heights.

	Description	L x W x H	Item#	Each
C.	Display Tray	14¾" x 8¼" x 1½"	**807-1059**	**$6.65**
	Display Tray	14¾" x 8¼" x 2"	**807-1058**	**6.10**
D.	Black Velvet Pad	14¾" x 8¼"	**807-1070**	**3.95**

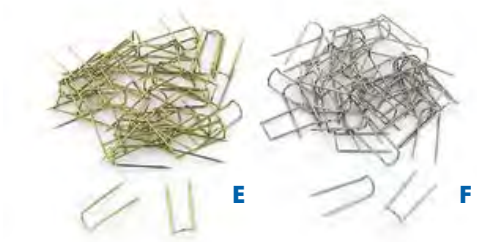
C

D

E, F Jewelry Pins

Yellow and white jewelry pins with long, sharp points for pinning all types of jewelry to beds, trays or easels. Sold in packages of 100 and boxes of 1,000.

	Color	Item#	Pkg. of 100 1-2	Pkg. of 100 3+	Item#	Box of 1,000 1-2	Box of 1,000 3+
E.	Yellow	**807-1181**	**$3.95**	**$3.56**	**807-1180**	**$26.95**	**$24.26**
F.	White	**807-1183**	**3.95**	**3.56**	**807-1182**	**26.95**	**24.26**



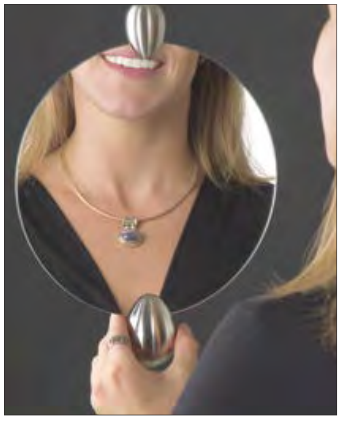
E F

G. Swinger® Suspended Retractable Mirror System

This innovative hanging mirror system frees up valuable counter space. Works easily with quick pull-down and push-up motion for out-of-the-way storage. Adjustable from 9' ceiling all the way down to counter top. Spring-loaded for neutral buoyancy so it stays at desired level. Can be mounted on any drywall or drop ceiling (hardware included).

Large 9" dia. reversible mirror features true-view optics on both sides. Heavyweight handles help stabilize mirror. Varnished birch handles can be used as is or painted with your desired color of latex or enamel paint.

	Description	Item#	Each
	Varnished Birch	**807-0700**	**$119.00**
	Chrome	**807-0702**	**119.00**
G.	Brushed Nickel	**807-0703**	**119.00**
	Matte Aluminum	**807-0706**	**119.00**
	Brass	**807-0710**	**119.00**
	Stainless	**807-0712**	**119.00**



G

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A

A. 64-Drawer Storage Cabinet

One-piece cabinet made of high-impact plastic. Features strong, flexible, chemical-resistant, translucent polypropylene drawers for fast content identification, finger-grip drawer pulls for easy access and rear stop tabs for prevention of spills. Can be stacked securely one on top of another or wall-mounted via rear keyhole slots. Measures 20"W x 6⅜"D x 15⅞"H with 2⅛"W x 5⅜"D x 1½"H drawers. Made in USA.

Description	Item#	Each
64-Drawer Storage Cabinet	**810-0495**	**$52.50**

B

B. 18-Compartment Tray

An 18-compartment plastic tray great for storing small items. Slide-on lid keeps parts secure even if tray is dropped. Compartments have rounded fronts for easy retrieval of beads, stones or findings. Light blue color makes tems easy to see. Measures 10½"L x 6¾"W with 2"L x 1⅝"W x 1½"H compartments.

Description	Item#	Each
18-Compartment Tray	**807-1200**	**$7.95**

C

D

C-G Plastic Storage Boxes

These handy boxes keep findings, gems, sawblades, solders, chuck keys and countless other small items organized at your bench so you can find them when you need them. Made of translucent plastic except #807-1201, which is clear plastic. Hinged tops.

	Description	Dimensions (L x W x H)	Item#	EACH Prices 1-2	3-5	6+
C.	Box w/7 nonadjustable compartments	4⅝" x 3⅝" x ⅞"	**807-1201**	**$1.85**	**$1.67**	**$1.57**
D.	Box w/7 adjustable dividers to create up to 18 compartments	8" x 4¼" x 1¼"	**807-1202**	**3.70**	**3.33**	**3.15**
E.	Box w/15 adjustable dividers to create 3-18 compartments	10¾" x 6½" x 1⅝"	**807-1203**	**8.29**	**7.46**	**7.05**
F.	Box has radiused edges comes with 20 adjustable dividers to create 4-24 compartments	13" x 8¾" x 2⅛"	**807-1204**	**13.35**	**12.02**	**11.35**
G.	Box w/24 nonadjustable compartments	12" x 6" x 1½"	**807-1205**	**18.75**	**16.88**	**15.94**

E

F

G

H

I

H, I Stackable Round Tray Sets

These convenient tray sets help you unclutter your bench by making efficient use of vertical space. Let you organize small parts, beads, stones and other small objects. Each tray has a threaded bottom that securely screws to the tray below it, allowing access to any tray at any level. Made of transparent plastic, so contents are always visible. Available in two diameters: 1¼" and 2".

	Description	Item#	Each
H.	Small Tray Set (seven 1¼" dia. trays)	**816-4062**	**$2.95**
I.	Large Tray Set (five 2" dia. trays)	**816-4060**	**2.95**

J

J. 12-Compartment Gem Tray

Handy round tray with 12 extra-deep (approx. ½") compartments for more storage and easy access. Rotating lid opens just one compartment at a time. Measures 3¼" dia. x ⅝"H.

Description	Item#	Each
12-Compartment Gem Tray	**816-4070**	**$3.25**

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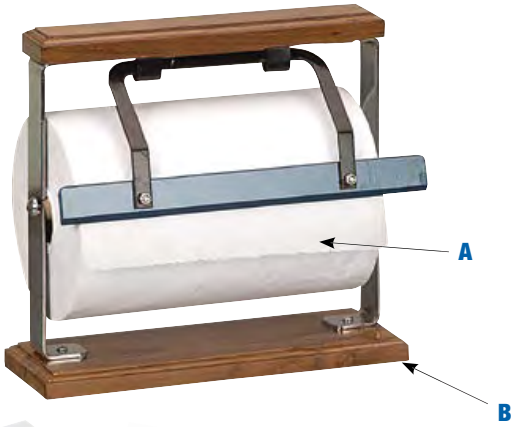
A, B Anti-Tarnish Tissue Roll and Cutter

The finest quality white bleached tissue for wrapping silverware, jewelry and other gifts. Will not tarnish merchandise. Measures 7⅜" wide by 1,000 feet. Cutter has steel frame and cutter with wood base that can be screwed to table. For 7⅜" wide rolls.

	Description	Item#	EACH Prices 1-2	3+
A.	Anti-Tarnish Tissue Roll	**813-1750**	**$12.55**	**$11.92**
B.	Cutter for Tissue Roll or Gift Wrap	**813-1755**	**17.35**	**16.48**



C, D Anti-Tarnish Tissue

Lint-free anti-tarnish tissue for wrapping and cleaning watch parts, jewelry and much more. Available in watch size 4" x 4" and sold in boxes of 1,000 sheets. Also available in large 20" x 30" sheets sold by the ream (approximately 500 sheets).

	Description	Item#	Box of 1,000 1-2	3+
C.	Watch Tissue 4" x 4"	**813-1725**	**$6.75**	**$6.41**
D.	20" x 30" ream	**813-1751**	**27.80**	**26.41**

C

D

E. High-Quality Diamond Parcel Paper

Unmatched in sensitivity and protection for handling loose stones. Made of the finest paper stock, then hand-finished for the right touch. Specially developed with the best blue and white flute colors to enhance D-H color diamonds and reflect them in the best light. Measures 3¼" x 1¾" folded, 7¼" x 6" opened. Sold in packages of 25 sheets.

Description	Item#	Pkg. of 25
High-Quality Diamond Parcel Paper	**810-0460**	**$10.15**

E

F. Economy Diamond Parcel Paper

White three-ply paper for protecting stones and showing them off at their best. Measures 2⅞" x 1½" folded, 7" x 5¾" opened. Sold in boxes of 100 sheets.

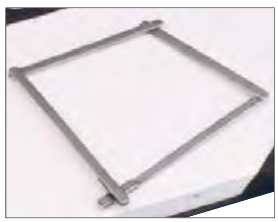
Description	Item#	Box of 100
Economy Diamond Parcel Paper	**810-0465**	**$13.55**

F

G. Paperweight for Diamond Paper

Holds folded diamond paper in open position. Neatly folds up when not in use. Made of stainless steel. Measures 4¾" long when closed. Shipping weight 3 oz.

Description	Item#	Each
Paperweight for Diamond Paper	**810-0469**	**$5.95**


G

H. Triple-Duty Repair Envelopes – Loss prevention system

Each numbered envelope has two numbered detachable stubs: one for the customer and one for filing. Made of strong buff paper. Sold in packages of 1,000. Ship. wt: 8 lbs.

L x W	Series Numbers	Item#	Pkg. of 1,000
5¾" x 3⅛"	1 to 1,000	**810-0400**	**$39.95**
	1,001 to 2,000	**810-0401**	**39.95**
	2,001 to 3,000	**810-0402**	**39.95**
	3,001 to 4,000	**810-0403**	**39.95**
	4,001 to 5,000	**810-0404**	**39.95**

H

I, J Job Envelopes

Blank for general use. Manila colored with gummed flaps. Sold in boxes of 500.

	L x W	Ship. Wt.	Item#	Box of 500 1-2	3+
I.	4¼" x 2½"	2 lbs., 2 oz.	**810-0418**	**$20.75**	**$18.68**
J.	5½" x 3⅛"	3 lbs., 12 oz.	**810-0419**	**21.20**	**19.08**

I

J

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A

A. Economy Clear Zip Bags

Our most economical clear plastic bags with standard zip closure. 2 mil.

W x L	Item#	Pkg. of 1,000
2" x 2"	**810-0500**	**$6.60**
2" x 3"	**810-0501**	**7.35**
2" x 5"	**810-0498**	**8.65**
2" x 8"	**810-0505**	**12.25**
3" x 4"	**810-0502**	**10.50**
3" x 5"	**810-0503**	**11.55**
4" x 4"	**810-0510**	**19.99**
4" x 6"	**810-0504**	**16.00**
5" x 8"	**810-0511**	**26.25**
5" x 12"	**810-0497**	**37.70**
6" x 6"	**810-0499**	**23.20**
6" x 9"	**810-0509**	**32.00**
8" x 10"	**810-0506**	**67.20**
10" x 12"	**810-0507**	**68.00**

B

B. Economy Clear Zip Bags with White Write-On Area

Economical clear plastic bags with standard zip closures. Have white block that accepts grease pencil, pen, marker or rubber stamp.

W x L	Item#	Pkg. of 1,000
2" x 3"	**810-0524**	**$8.40**
3" x 4"	**810-0525**	**11.55**
3" x 5"	**810-0526**	**15.00**
4" x 6"	**810-0527**	**21.00**

C

C. Clear Zip Bags with Red Line

These 2 mil clear plastic bags seal and reseal easily and can be used over and over again. Stronger closure than economy clear bags.

W x L	Item#	Pkg. of 1,000
2" x 2"	**810-0530**	**$20.50**
2" x 3"	**810-0531**	**21.50**
3" x 4"	**810-0532**	**26.45**
3" x 5"	**810-0533**	**34.50**
4" x 6"	**810-0534**	**36.95**

D

D. Clear Zip Bags with Red Line and White Write-On Area

Offer same strong closure and easy sealing and resealing as clear bags with red line above. White block area accepts grease pencil, pen, marker or rubber stamp.

W x L	Item#	Pkg. of 1,000
2" x 3"	**810-0550**	**$20.40**
3" x 4"	**810-0551**	**31.50**
3" x 5"	**810-0552**	**33.75**
4" x 6"	**810-0553**	**45.50**

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A, B 3M® Tarni-Shield

Designed to inhibit corrosive gases from tarnishing or staining metal items in transit or storage. Works on silver, copper, gold, brass and solder by absorbing and trapping atmospheric pollutants such as hydrogen sulfide, sulfur dioxide and acetic acid. Easy to use: to protect a metal item, just add Tarni-Shield to the shipping container. Available in strips or tabs. Strips measure 2" x 7" and are sold in packages of 8 or 1,000. Use one strip to protect up to 420 cubic inches of container space. Tabs measure 1" x 1" and are sold in packages of 1,500. Use tabs in small containers.

	Description	Size	Pkg. of	Item#	EACH Prices 1-11	12+
A.	3M Anti-Tarnish Strips	2" x 7"	8	**813-1781**	**$3.85**	**$3.47**
	3M Anti-Tarnish Strips	2" x 7"	1000	**813-1786**	**299.00**	**-**
B.	3M Anti-Tarnish Tabs	1" x 1"	1,500	**813-1789**	**56.00**	**-**

A

B

C. Anti Tarnish Bags - The easy way to store and protect jewelry!

Convenient storage bags that prevent jewelry from tarnishing. Feature one transparent side and one side coated with tarnish-absorptive material. When a bag turns black, it's time for a new one. Sold in packages of 10.

Description	Size	Item#	Pkg. of 10 1-99	100+
Anti-Tarnish Bag	2½" x 3"	**817-1746**	**$2.50**	**$2.25**
	4" x 4"	**817-1747**	**3.40**	**3.06**
	4" x 6"	**817-1748**	**3.40**	**3.06**
	6" x 8"	**817-1749**	**5.20**	**4.68**

C

D. Anti-Tarnish Filtration Unit

Never polish your showcase jewelry again!

This simple, effective unit prevents tarnish on sterling silver and all other metals. Place one in a 4' showcase or two in a 6' showcase, especially if opened frequently. If you move your jewelry to a safe each night, place one or two units in there, as well. Includes one filter. Runs 24/7 on two "D" batteries (not included). Used by NASA, the Guggenheim Museum and the British Royal Mint, to name a few.

Not designed for open areas. Note that cabinets and cases with wooden bases may require extra protection from Anti-Tarnish Foil Barrier Film to reduce outgassing common to wood, which greatly contributes to tarnishing if left unchecked.

Features:

- Safe for all jewelry
- Leaves no residue or deposit
- Nontoxic and environmentally safe
- Hides easily behind a necklace stand
- Operates silently

Measures 3¼"W x 3½"D x 4"H. Filter and batteries should be changed every three months.

Description	Item#	Each
Anti-Tarnish Filtration Unit	**813-1745**	**$89.95**
Replacement Filters, pkg. of 3	813-1746	33.25
Description	**Item#**	**Per Foot**
Anti-Tarnish Foil Barrier Film, 18"W	**813-1747**	**$3.00**

D

E. Jewelry Appraisal Form

Official insurance appraisal form for jewelers and appraisers. Three-part, carbonless format. Sold in packages of 50. Ship. wt: 1 lb.

Description	Size	Item#	Pkg. of 50
Jewelry Appraisal Form	8½" x 11"	**810-0430**	**$19.90**

E

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Alphabetical Listing of Books and DVDs

AJM Handbook on Best Business Practices – Book
By MJSA/AJM Press page 582

The Art of Engraving – Book
By James B. Meek page 583

The Art of Setting Princess Cuts – DVD
By Blaine Lewis page 595

The Art of Setting Princess Cuts – Video
By Blaine Lewis page 595

At the Bench: An Illustrated Guide to Working with Gold & Silver – Book
By Gregg Todd + Greg Gilman page 591

Basic Gemstone Setting Procedures & Techniques – DVD
By Robert R. Wooding page 594

Bead Setting Diamonds with Pave – Book
By Robert R. Wooding page 593

Bench Tips for Jewelry Making – Book
By Bradford M. Smith page 591

Bezel & Flush Setting with Diamonds and Fragile Colored Stones – DVD
By Blaine Lewis page 595

Blueprint Reading Basics – Book
By Warren Hammer page 582

Carving and Painting the American Kestrel for Beginners and Professionals – DVD
With Floyd Scholz page 595

Centrifugal or Lost Wax Casting – Book
By Murray Bovin, Revised by Peter M. Bovin page 583

Channel Setting Diamonds – Book
By Robert R. Wooding page 593

Channel Setting Diamond – DVD
By Robert R. Wooding page 593

Chasing - Ancient Metalwork Technique with Modern Applications – Book
By Marcia Lewis page 589

Chasing and Repousse, Methods Ancient and Modern – Book
By Nancy Megan Corwin page 588

Classical Loop-in-Loop Chains and Their Derivatives – Book
By Jean Stark + Josephine Smith page 588

Complete Handbook for Gemstone Weight Estimation – Book
By Charles I. Carmona page 585

The Complete Metalsmith – Book
By Tim McCreight page 592

The Complete Metalsmith – DVD
By Tim McCreight page 592

The Complete Metalsmith – Video
By Tim McCreight page 592

Creative Stone Setting – Book
By John Cogswell page 595

Diamond Grading ABC: The Manual – Book
By Verena Pagel-Theisen page 585

Diamond Setting: Fancy Cut Diamonds – DVD
By Robert R. Wooding page 594

The Diamond Setting Manual: Procedures & Techniques – Book
By Robert R. Wooding page 593

Diamond Setting: Marquis Diamonds – DVD
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Diamond Setting Pavé – DVD
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Diamond Setting: The Professional Approach – Book
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By Bill Tallmon page 585

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By Sam Alfano page 584

Etruscan Granulation – Book
By Nestler + Formigli page 589

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By Sam Alfano page 584

Extrusion Dies for Plastics and Rubber 4th Edition – Book
By Walter Michaeli page 590

Flatware Manual – Book
By Gesswein page 590

The Flexible Shaft Machine – Book
By Harold O'Connor page 589

Foldforming – Book
By Charles Lewton-Brain page 589

Form Emphasis for Metalsmiths – Book
By Heikki Seppa page 591

Gem Identification Made Easy 3rd Ed. – Book
By Matlins + Bonanno page 584

Gemstones of the World – Book
By Walter Schumann page 585

How to Create Settings In Metal, Wire and Wax with Templates – Book
By Adolfo Mattiello page 595

How-to Engrave the NgraveR Way – Book
By Ray J. Phillips page 583

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Alphabetical Listing of Books and DVDs

Introduction to Mold Making – Book
By SPI Moldmakers Division page 590

Introduction to Precious Metals Metallurgy for Jewelers and Silversmiths – Book
By Mark Grimwade page 591

Jeweler's Resource A Reference of Gems, Metals, Formulas and Terminology for Jewelers – Book
By Bruce G. Knuth page 582

Jewelry Concepts and Technology – Book
By Oppi Untracht page 587

Jewelry Fundamentals of Metalsmithing – Book
By Tim McCreight page 590

Jewelry Illustration – Book
By Dominique Audette page 589

Jewelry Making – Hard Cover Book
By Murray Bovin, Revised page 586

Jewelry Making – Soft Cover Book
By Murray Bovin, Revised page 586

Jewelry Making and Design – Book
By Augustus Rose + Antonio Cirino page 586

Jewelry Manufacturer's Encyclopedia Part I & II – Book
By Philip Romanoff page 587

Jewelry Manufacturing: The Art and Science – Book
By Philip Romanoff page 586

Jewelry Repair Manual – Book
By R. Allen Hardy page 593

Jewelry Wax Modeling – Book
By Adolfo Mattiello page 583

Lettering Techniques for Hand Engravers – DVD
By Sam Alfano page 584

Lost - Wax Casting – Book
By Fred R. Sias Jr. page 583

Making Most of Your Flex Shaft – Book
By Karen Christians page 589

Matt Design – Five Templates
By Adolfo Mattiello page 586

Metal Corrugation: Surface Embellishment and Element Formation for the Metalsmith – Book
By Patricia McAleer page 592

Metals Handbook, Desk Edition – Book
By ASM International page 592

The Metalsmith's Book of Boxes & Lockets – Book
By Tim McCreight page 592

Mokume Gane in the Small Shop – DVD
By Steve Midgett page 588

Mold Polishing Made Easy – Booklet
By Martin McGrath page 590

Moods in Wire: A Comprehensive Guide to the Fine Art of Wirewrapping – Book
By Ed Sinclair page 587

Moving Metals: The Art of Chasing and Repoussé – Book
By Adolph Steines page 587

The Platinum Bench: An Illustrated Guide to Easy Platinum Repairs and Fabrication – Book
By Jurgen Maerz page 591

Power Graver & Allset – DVD
By George Bennett page 583

The Power of Jewelry – Book
By Robert Lee Morris page 586

Practical Casting - A Studio Reference – Book
By Tim McCreight page 583

Professional Jewelry Making - A Contemporary Guide to Traditional Jewelry Techniques – Book
By Alan Revere page 588

Refining Precious Metal Waste – Book
By C.M. Hoke page 582

Ring Repair – Book
By Alan Revere page 593

Safety Solutions – Book
By MJSA page 582

Secret Shop Weapons - Jewelers Reveal Their Favorite Tools and Why They Love Them – Book
By Ann Cahoon + Chris Ploof page 587

The Siamese Ruby – Book
By John Hoskin + Lindie Lapin page 585

Silversmithing and Art Metal – Book
By Murray Bovin, Revised by Peter M. Bovin page 591

Small Scale Photography: How to Take Great Shots of Your Work – Book + DVD
By Charles Lewton-Brain page 582

Successful Jewelry Engraving – DVD
By Sam Alfano page 584

Techniques of Jewelry Illustration and Color Rendering – Book
By Adolfo Mattiello page 586

Theory and Practice of Goldsmithing – Book
By Dr. Erhard Brepohl page 592

Tumble Finishing for Handmade Jewelry: Mass Finishing on a Small Scale – Book
By Judy Hoch page 588

What is a Mold? An Introduction – Book
By Len Graham page 590

Working with Gemstones - A Bench Jewelers Guide – Book
By Arthur Skuratowicz + Julie Nash page 585

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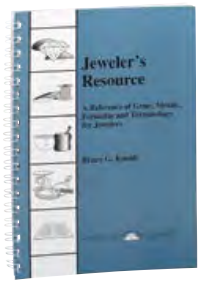
A 

A. Jeweler's Resource

A Reference of Gems, Metals, Formulas and Terminology for Jewelers – *By Bruce G. Knuth*

Ideal for jewelry students and bench jewelers alike. Also serves as the most complete counter reference available to retail jewelers. Features easy-to-follow text and illustrations that allow explanation of many aspects of gems and jewelry to consumers. Includes mathematical and chemical formulas, measurement conversion and comparison tables, an extensive listing of gems and gem properties, diagrams of over 40 gem cutting styles, legal standards for diamond and much, much more. Spiral-bound to lie flat. Softcover, 112 pages.

Description	Item#	Each
Jeweler's Resource - Book	**810-2760**	**$24.30**

B

B. Small Scale Photography: How to Take Great Shots of Your Work

By Charles Lewton-Brain

A comprehensive package that provides in-depth information on setting up your own jewelry photography studio. DVD offers insightful details on camera choice, film types, lights and lighting, photo booth setup, holding devices for jewelry, F-stops, light metering, drop-shadow effects and much more. Provides solutions to common problems. DVD format, 112 minutes. Softcover companion book is a handy resource usable on its own.

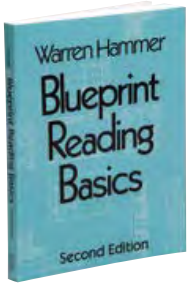
Description	Item#	Each
Small Scale Photography DVD/Book Package	**811-0044**	**$59.95**

C

C. The AJM Handbook on Best Business Practices – *By MJSA/AJM Press*

An invaluable collection of classic articles from AJM Magazine written by leaders in the jewelry industry. Covers essential topics such as maintaining profitability in good times and bad, establishing solid credit practices, researching equipment before purchasing, weighing pros and cons of leasing, anticipating and gearing up for production increases, improving metal management, implementing your own "5S" organizational program and creating a business plan for a career in jewelry design. Softcover, 96 pages.

Description	Item#	Each
The AJM Handbook on Best Business Practices - Book	**811-0061**	**$19.00**

D 

D. Blueprint Reading Basics – 2nd Edition, *By Warren Hammer*

Written in a nontechnical and easy-to-understand format, this practical guide combines blueprint reading theory with industrial applications for machinists, technicians, inspectors and students. Includes illustrations and examples to help you visualize and develop drawings. Softcover, 314 pages.

Description	Item#	Each
Blueprint Reading Basics - Book	**811-0125**	**$32.50**

E

E. Refining Precious Metal Wastes – *By C.M. Hoke*

This book is the result of many years of teaching jewelers and others how to refine their precious metal wastes. Starts with tasks that are easy to understand and perform, assuming that the reader has never seen the refining process. Continues through more complicated methods of handling various types of waste. Hardcover, 362 pages.

Description	Item#	Each
Refining Precious Metal Wastes - Book	**811-0286**	**$54.75**

F

F. Safety Solutions – *By MJSA*

Every jewelry operation poses numerous hazards that, if overlooked, could lead to injury, illness or even death. This manual provides jewelers with easy-to-understand guidelines to avoid such outcomes. Explains how to properly store and work with chemicals, dispose of hazardous waste, establish safe working conditions and comply with all federal, state and local codes. Softcover, 64 pages.

Description	Item#	Each
Safety Solutions - Book	**811-0393**	**$28.99**

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A. Jewelry Wax Modeling – *By Adolfo Mattiello*

Written by an experienced wax modeling instructor, this book progressively teaches the wax modeling process. Emphasizes developing of hand skills, working from perspective illustrations, making sketches and creating layouts with stones. Features meticulous step-by-step instructions and drawings. Includes stone setting considerations, instructions for creating templates and answers to frequently asked question. Hardcover, 161 pages.

Description	Item#	Each
Jewelry Wax Modeling - Book	**265-2429**	**$41.30**

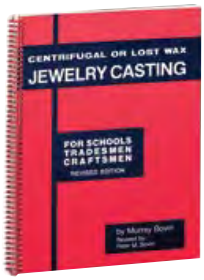
A

B. Centrifugal or Lost Wax Jewelry Casting

By Murray Bovin, Revised by Peter M. Bovin

Explains the entire casting process in step-by-step detail. An excellent reference source for any caster and an invaluable learning tool for those new to casting. Covers different methods of casting, describing all processes involved plus tools and equipment. Includes dozens of charts that detail burnout programs, investing procedures, metal and casting temperatures and much more. Uses black-and-white photos to show work in progress. Softcover, 143 pages.

Description	Item#	Each
Centrifugal or Lost Wax Jewelry Casting - Book	**810-2800**	**$21.00**

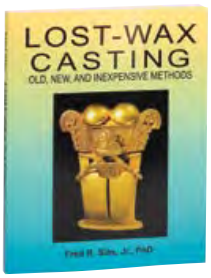


B

C. Lost-Wax Casting: Old, New and Inexpensive Methods – *By Fred R. Sias Jr., Ph.D.*

Designed to be used as both a textbook and a reference book, this work is directed primarily at beginners. Places heavy emphasis on understanding the processes involved rather than simply presenting a set of unexplained rules. Includes chapters on spruing, investing, wax elimination, centrifugal casting, vacuum casting, alloys, finishing and more. Contains black-and-white photos and diagrams. Softcover, 201 pages.

Description	Item#	Each
Lost Wax Casting - Book	**810-2956**	**$22.95**

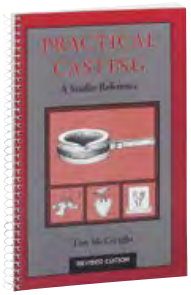


C

D. Practical Casting – *By Tim McCreight*

From the author of *The Complete Metalsmith*, this easy-to-read book devotes six full chapters to the lost wax casting procedure. Discusses alternative casting techniques that utilize sand and cuttlefish bone in later chapters. Also provides information about casting equipment. Contains dozens of invaluable charts, graphs and tables. Spiral-bound to lie flat. Softcover, 122 pages.

Description	Item#	Each
Practical Casting - Book	**811-0035**	**$18.95**



D

E. How to Engrave the NgraveR Way – *By Ray J. Phillips*

A series of *Gems & Minerals* magazine article reprints on engraving with the NgraveR, an impact tool developed by the author. Shows how to begin by making practice strokes and how to lay out and execute designs suitable for gun engraving and for decorating belt buckles, money clips and key chain ornaments. Spiral-bound to lie flat. Softcover, 26 pages.

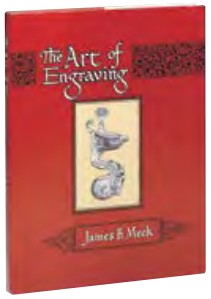
Description	Item#	Each
How to Engrave the NgraveR Way - Book	**811-0295**	**$6.50**

E

F. The Art of Engraving – *By James B. Meek*

A complete, authoritative and imaginative book on the art of gun engraving. Excellent for both beginners and accomplished engravers who wish to broaden their knowledge of the art. Includes numerous drawings, photographs, illustrations, designs, layouts, technical information and instructions. Bound to lie flat. Hardcover, 196 pages.

Description	Item#	Each
The Art of Engraving - Book	**810-2600**	**$47.75**



F

G. Power Graver & AllSet – *By George Bennett*

Combined video on two jewelry making products. The AllSet instruction video features co-inventor Jeff Mathews. Instruction on the use of the Power Graver is by master jeweler and teacher, George Bennett. Each segment is approx. 30 minutes.

Description	Item#	Each
Power Graver & AllSet - DVD	**811-0050**	**$4.95**

G

Please note: Books, Videos and DVDs cannot be returned for credit; damaged materials can be exchanged for identical copies only.

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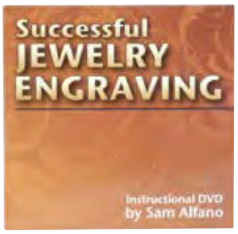
A

A. The Expert's Guide to Graver Sharpening – *By Sam Alfano*

Created by Sam Alfano, master engraver with over 25 years of experience. Offers step-by-step instructions on how to use the GRS Sharpening System. Covers sharpening of square, 120°, flat, round, brightcut, script lettering, modified flat and Italian bulino engravers, as well as liners. Includes dozens of timesaving tips and tricks. DVD format, 60 minutes.

Description	Item#	Each
The Expert's Guide to Graver Sharpening - DVD	**811-0051**	**$49.00**

B



B. Successful Jewelry Engraving – *By Sam Alfano*

Produced by master engraver Sam Alfano, this instructional video has something to offer the novice and professional alike. Teaches basic to advanced ring engraving techniques with close-up video, from a fundamental running leaf border to lumenesque scrollwork, relief engraving, sculpting and more. DVD format, 120 minutes.

Description	Item#	Each
Successful Jewelry Engraving - DVD	**811-0064**	**$49.95**

C

C. Lettering Techniques – *By Sam Alfano*

The skills you will learn will make all of your engraving better. DVD covers engraver's script, brightcut script, wriggled block lettering, layout stippled script, ribbon cut monogram, roman lettering, roman variations and leaf script. A must have for the beginning engraver and anyone who wants to improve their lettering technique. 1 hour 20 minutes.

Description	Item#	Each
Lettering Techniques - DVD	**811-0077**	**$49.99**

D

D. Engraving Scrollwork – *By Sam Alfano*

The entire process of scrollwork engraving is clearly demonstrated. Scribing borders and drawing and engraving the design, removing background, stippling and shading, and finally blackening the finished work. Dozens of tips & tricks, which will help you, elevate your work to the next level. Recorded directly through his microscope, you'll see exactly what Sam sees as a plain stainless steel knife comes to life with intricate and finely shaded scroll engraving. 1-hour 15mins with 13 chapters.

Description	Item#	Each
Engraving Scrollwork - DVD	**811-0075**	**$49.99**

E

E. Essential Guide to Drawing Scrolls – *By Sam Alfano*

Learn variation in scroll elements to make your designs more interesting while achieving a proportional balance. Includes chapters on basic, intermediate, and advanced scroll design, point errors, and leaf fold-overs. Avoid common design errors and learn to shade for a rich, three-dimensional look. 1 hour 20 minutes.

Description	Item#	Each
Essential Guide to Drawing Scrolls - DVD	**811-0076**	**$49.99**

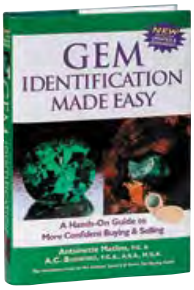
F

F. Easy Step-by-Step Graver Sharpening DVD – *By GRS*

This video teaches graver and tool sharpening in a simple and effective way. Using microscopic camera work and special visual aids, you'll see clear, step-by-step sharpening that you will understand. Each tool is first sharpened and then demonstrated in proper use including metal engraving and stone setting. Everyone using gravers, chisels and similar tools will save time, end frustration and produce finer results with this training. DVD format, 120 minutes.

Description	Item#	Each
The Expert's Guide to Graver Sharpening - DVD	**856-0059**	**$39.00**

G



G. Gem Identification Made Easy: A Hands-On Guide to More Confident Buying & Selling – 3rd Edition, *By Antoinette Matlins and A.C. Bonanno*

A must-have for the novice gem buyer and seller, this revised and expanded edition tells you everything you need to know to identify most gemstones with ease and make wiser buying decisions. Provides the latest information on new gems and explains instruments and techniques for spotting treatments, synthetics and look-alikes. Shows you how three simple, pocket-size instruments costing under $200 total can help you identify about 85% of all gemstones. Offers detailed instructions on how to use everything from basic tools such as the loupe and microscope to more advanced tools such as the refractometer and polariscope. Includes dozens of black-and-white photos and line drawings as well as color plates. Hardcover, 330 pages.

Description	Item#	Each
Gem Identification Made Easy - Book	**811-0014**	**$36.95**

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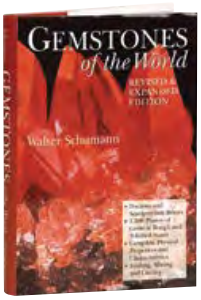
A. Gemstones of the World – *By Walter Schumann*

The definitive guide to gems for over 20 years. Details over 1,400 precious and semiprecious gemstones, outlining history, geographic origins, physical properties and the ways they are formed, structured and mined. Offers in-depth coverage of optical features, densities, chemical compositions, classifications, cutting and polishing methods, synthetic and imitation gems and much more. Contains 1,500 beautiful color photos. Hardcover, 280 pages.

Description	Item#	Each
Gemstones of the World - Book	**811-0015**	**$24.95**



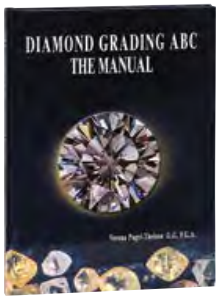
A

B. Diamond Grading ABC: The Manual

9th Edition, *By Verena Pagel-Theisen, G.G., F.G.A*

Provides in-depth information not found in previous editions on some of the latest developments in the field of diamond grading. Covers laser inscription of the certificate number on the girdle in response to increasing security concerns, treatment methods such as fracture filling, color enhancement methods, improved simulants, moissanite and synthetic diamonds. Describes natural and artificially colored diamonds and methods of detection and differentiation in detail. Serves as a practical grading guide, helping assess stone color, clarity, cut and weight. Deserves a place in every diamond grader's reference library. Hardcover, 320 pages.

Description	Item#	Each
Diamond Grading ABC: The Manual - Book	**811-0019**	**$91.95**



B

C. The Complete Handbook for Gemstone Weight Estimation

By Charles I. Carmona, G.G.

"[A] remarkably comprehensive set of weight estimation formulae for mounted diamonds, colored stones and pearls...Those who appraise, buy, sell, insure, or loan on used or estate jewelry...should consider such detailed tables a major resource for their estimating process" (from the foreword by Richard T. Liddicoat). Charles I. Carmona, G.G., is a working gemologist and appraiser who, over decades of experience, has compiled this guide to estimating the weights of all shapes and varieties of mounted gemstones. Includes hundreds of black-and-white diagrams and charts. Softcover, 434 pages.

Description	Item#	Each
The Complete Handbook for Gemstone Weight Estimation - Book	**811-0020**	**$59.95**

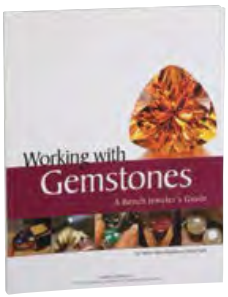
C

D. Working with Gemstones: A Bench Jeweler's Guide

By Arthur Anton Skuratowicz & Julie Nash

Offers insights into how best to work on gem-set jewelry. Explains all common enhancements and treatments, how various gems react to heat and pressure, how to modify mountings to accommodate a gem's characteristics and what tools you should always have close at hand. Also has a handy glossary, a listing of tool-specific dangers and easy-to-read charts on how gems react to abrasives, chemicals and heat. An invaluable resource for helping you avoid damaging expensive—and sometimes irreplaceable—gems. Illustrated in full color with gorgeous photos. Softcover, 128 pages.

Description	Item#	Each
Working with Gemstones - Book	**811-0062**	**$35.00**



D

E. Diamondland: "Know How" Every Jeweler Should Be Aware Of

By Bill Tallmon

A retail jeweler's 30 years of successful experience condensed into one book. Features amusing anecdotes that advise the reader how to run a jewelry business. Covers startup, image, product knowledge, inventory, publicity, sales, growth, service and appraisal. Informative for both aspiring and existing jewelry store owners. Softcover, 139 pages.

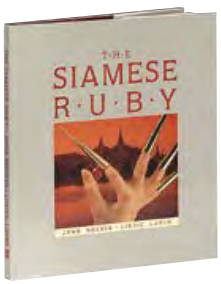
Description	Item#	Each
Diamondland: "Know How" Every Jeweler Should Be Aware Of - Book	**811-0110**	**$24.95**

E

F. The Siamese Ruby – *By John Hoskin and Lindie Lapin*

Most of the world's best rubies come from Thailand (Siam as the country was formerly named). This book deals exclusively with Siamese rubies—from the gem diggers hunting the elusive stones in the forests, through the traders and cutters, to the eager buyers around the globe. Describes the history, legend and lore surrounding rubies in Thailand. Contains beautiful color photographs. A thoughtful gift for anyone interested in rubies. Hardcover, 119 pages.

Description	Item#	Each
The Siamese Ruby - Book	**811-0299**	**$17.99**



F

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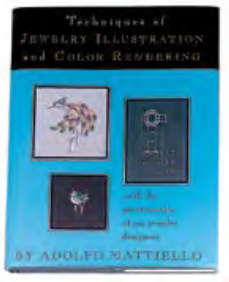


A

B

A, B Matt™ Design Book and Template Set – *By Adolfo Mattiello*

Designed to work with the Matt Design Template Set, *Techniques of Jewelry Illustration and Color Rendering* offers the talents, expertise and individuality of six outstanding jewelry designers in one volume. Presents full instruction on jewelry illustration and rendering. Features step-by-step guidelines and clear illustrations for each process. A valuable resource for beginners and professionals alike.

The Matt Design Template Set includes five plastic templates that provide numerous shapes and curves, including French curves, as well as specific ring designs in sizes appropriate for jewelry rendering. Allows you to visualize and create variations of any design.

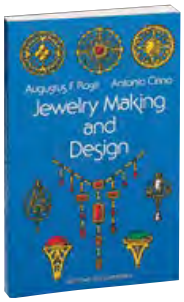
	Description	Item#	Each
	Matt Design Book and Template Set	**265-2430**	**$92.30**
A.	Techniques of Jewelry Illustration and Color Rendering - Book	**265-2431**	**43.25**
B.	Matt Design Template Set (five templates)	**265-2432**	**49.95**

C

C. Jewelry Making – *By Murray Bovin, Revised by Peter M. Bovin*

Explains the most practical and contemporary methods of making handmade jewelry for beginners and advanced craftsmen. Describes traditional jewelry making techniques as well as techniques developed or expanded by the author through his many years of work in the jewelry industry. Use hundreds of black-and-white photos and line drawings to illustrate the processes described. Softcover or hardcover, 287 pages.

	Description	Item#	Each
C.	Softcover Version	**811-0100**	**$27.25**
	Hardcover Version	**810-2900**	**29.95**



D

D. Jewelry Making and Design – *By Augustus F. Rose and Antonio Cirino*

Written for both beginning and experienced craftsmen, this book takes you through a series of problems, progressing from simple to complex pieces. Explains how to design jewelry using natural objects such as flowers, leaves and insects as models. Contains over 325 illustrations. Softcover, 306 pages.

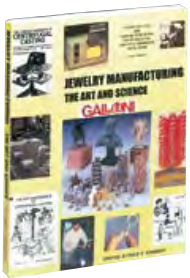
Description	Item#	Each
Jewelry Making and Design - Book	**811-0009**	**$12.95**

E

E. Robert Lee Morris: The Power of Jewelry – *By Robert Lee Morris*

Robert Lee Morris has been long noted for his distinctive fusion of primal forms, stunning hand workmanship and cutting-edge sensibility. His organic pieces are sought after by fashionistas around the world. This engrossing book, written by the artist and illustrated with examples of work he's done in metal and stone over the course of his career, presents an astonishing scope of design genius. A truly beautiful gift for collectors, designers and students alike. Exquisitely conveys the magic and power of jewelry with 285 magnificent photos (250 in full color). Hardcover, 180 pages.

Description	Item#	Each
The Power of Jewelry - Book	**811-0070**	**$60.00**



F

F. Jewelry Manufacturing: The Art and Science – *By Philip E. Romanoff*

An excellent troubleshooting guide for any jewelry manufacturer, large or small. Thoroughly describes, complete casting and finishing processes. Outlines machinery and tools necessary to complete all steps. Includes charts, temperature tables, thermal properties of metals and various other data. Contains black-and-white photos and line drawings. Softcover, 348 pages.

The author has been setting up jewelry manufacturing sites around the world for the past 40 years. He details everything to prevent errors before they happen.

Description	Item#	Each
Jewelry Manufacturing: The Art and Science - Book	**811-0206**	**$53.00**

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A. Jewelry Manufacturer's Encyclopedia: The Art and Science

By Philip E. Romanoff

Offers a comprehensive look at the many facets of jewelry manufacturing, placing particular emphasis on casting. Covers characteristics of metals and materials used in manufacturing, disposal of waste material, removal of precious metal content from waste, effluent treatment, ventilation, tumbling, sandblasting and much more. Includes analysis of suggested individual room and factory setups. Softcover, two volumes, 906 pages.

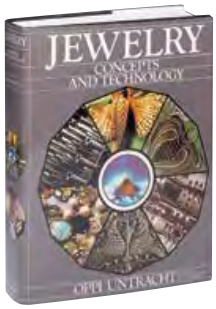
Description	Item#	Each
Jewelry Manufacturer's Encyclopedia: The Art and Science - Book	**811-0207**	**$112.00**

A

B. Jewelry Concepts and Technology – *By Oppi Untracht*

The definitive guide and handbook for any jewelry maker, regardless of skill level. One of the most comprehensive books available on the subject of jewelry making. Thoroughly describes every jewelry process you have—and haven't!—heard of. Contains 900 photos and 377 illustrations. Hardcover, 840 pages.

Description	Item#	Each
Jewelry Concepts and Technology - Book	**811-0275**	**$137.25**

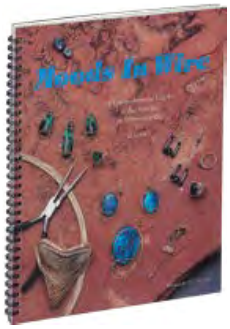


B

C. Moods in Wire – *By Ed Sinclair*

The most comprehensive book available on wire wrapping. Serves as an invaluable guide to anyone interested in the art. Contains hundreds of illustrations. Spiral-bound to lie flat. Softcover, 111 pages.

Description	Item#	Each
Moods in Wire - Book	**810-0289**	**$31.95**



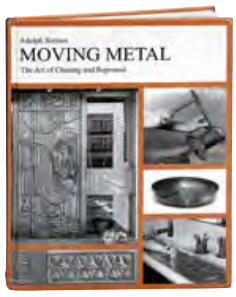
C

D. Moving Metal: The Art of Chasing and Repoussé – *By Adolph Steines*

Painstakingly translated from German, this book is a valuable resource for professionals and hobbyists alike. Covers chasing and repoussé in greater depth than any other volume available in the English language. Demonstrates Adolf Steines' creativity, knowledge, skill and experience as a master metalworker. A must-have for jewelers, blacksmiths, sculptors and metalwork artists.

Thoroughly addresses workrooms, tools, materials, working surfaces (including carpets and pitches), design transferring, sinking, raising, stamping, chasing, repoussé, engraving, soldering and etching, as well as coloring and protecting metal surfaces. Illustrates numerous examples of the author's works, including large-scale doors, fountains, memorials, wall sculptures and portraits, as well as many delicate jewelry pieces. Reveals tricks and special techniques, such as using air-powered hammers for forming and chasing. Contains over 200 detailed photographs and drawings. Softcover, 132 pages.

Description	Item#	Each
Moving Metal: The Art of Chasing and Repoussé - Book	**811-0005**	**$32.95**



D

E. Secret Shop Weapons – *By Ann Cahoon & Chris Ploof*

Every jeweler has a favorite tool. Now you can read about the favorites of more than thirty acclaimed designers and jewelers, in the new MJSA Press book, Secret Shop Weapons. Features tools of every shape, size, and type, from the high-tech (lasers, CAD/CAM, laptops) to such traditional favorites as gravers, hammers, and a Rollerball pen (yes, a pen). More important, the jewelers describe why they love their "secret shop weapons"—how they use them and what unique advantages the tools provide. Softcover, 160 pages.

Description	Item#	Each
Secret Shop Weapons - Book	**811-0006**	**$29.50**

E

Includes password for on-line video demonstrations

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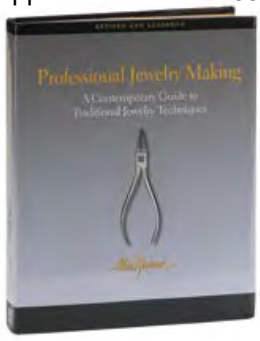


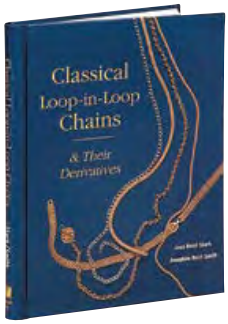
A

A. Professional Jewelry Making

By Alan Revere

When master goldsmith Alan Revere published Professional Goldsmithing in 1991, he brought traditional European trade education to the US for the first time, adapting it for an American audience. The book was a best seller and quickly became a standard text in the field. To mark the 20th anniversary of this groundbreaking work, Revere and Brynmorgen Press offered a revised and expanded edition that includes new projects, scores of new photos, and a handsome new layout. What hasn't changed is the precise instruction that makes this edition a fitting testament to its predecessor. Hardcover, 360 pages.

Description	Item#	Each
Professional Jewelry Making - Book	**811-0008**	**$70.00**



B

B. Classical Loop-in-Loop Chains and Their Derivatives

By Jean Reist Start and Josephine Reist Smith

A comprehensive book on making chain using the ancient and beautiful loop-in-loop technique. Features detailed and thorough instruction that takes the student through a variety of projects to introduce new techniques. Covers ancient and modern variations of each basic chain type in its own chapter. Describes construction of simple, appropriate clasps for each chain type in the final chapter. Reflects the author's 25+ years of combined experience in teaching these techniques to individuals and in workshops. Contains numerous photos and diagrams. Bound to lie flat. Hardcover, 190 pages.

Description	Item#	Each
Classical Loop-in-Loop Chains and Their Derivatives - Book	**811-0025**	**$34.95**

C

C. Tumble Finishing for Handmade Jewelry: Mass Finishing on a Small Scale

4th Edition, *By Judy Hoch*

This handbook shows jewelers how to save time and money while mass finishing handmade jewelry. Provides descriptions of basic equipment and supplies, including rotary and vibratory tumblers, magnetic and centrifugal disc finishers, medias and compounds. Helps readers choose the right process for each application, ensuring optimal results. Passes along the author's firsthand knowledge about preventing disasters and solving problems, all in an easy-to-read informal style. Contains black-and-white photos. A great book for novices. Softcover, 47 pages.

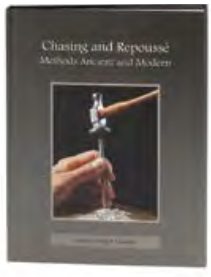
Description	Item#	Each
Tumble Finishing for Handmade Jewelry - Book	**811-0041**	**$15.00**

D

D. Mokume Gane in the Small Shop – *By Steve Midgett*

Takes the mystery out of mokume gane, the beautiful art of combining two or more metals to create a wood grain effect. Provides exact, easy-to-follow instructions for using this wonderful method to create your own unique designs. Details minimal equipment needed. DVD format, 138 minutes.

Description	Item#	Each
Mokume Gane in the Small Shop - DVD	**811-0067**	**$49.95**



E

E. Chasing and Repousse – *By Nancy Megan Corwin*

Virtually every culture with a history of metalsmithing has demonstrated accomplished work in the complementary techniques of chasing and repousse. From delicate Hellenic earrings to works as massive as the Statue of Liberty, the use of hammers and punches to form and ornament metal remains as vibrant today as it has in its 5,000 year history.

This lavishly illustrated book provides first-time artists with enough information to get started, but also offers advanced workers insights into design and process. Almost 500 photos and drawings guarantee not only clear instruction but bounteous inspiration. Hardcover, 184 pages.

Description	Item#	Each
Chasing and Repousse - Book	**811-0068**	**$37.50**

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A. Etruscan Granulation – *By Nester and Formigli*

This is the only English language edition of a prestigious Italian book. Through historical photos, electron microscopy, and experiments inspired by archeological research, authors Gerhard Nestler & Edilberto Formigli examine the methods and results of classical goldsmiths as they created the magnificent works that continue to mesmerize us today. Softcover, 96 pages

Description	Item#	Each
Etruscan Granulation - Book	**811-0071**	**$19.90**

A

B. Foldforming – *By Charles Lewton-Brain*

More than 20 years ago, Canadian goldsmith and author Charles Lewton-Brain invented a radical way to develop forms in metal sheet. In the ensuing decades, he has led hundreds of metalsmiths to explore and expand on his pioneering work. Now for the first time, the results of those efforts are compiled into a comprehensive review. With practical techniques and over 450 photographs, this groundbreaking book sets a standard for breadth, authority, and inspiration. Hardcover, 160 pages.

Description	Item#	Each
Foldforming - Book	**811-0072**	**$35.00**

B

C. Jewelry Illustration – *By Dominique Audette*

With almost 1000 drawings, this comprehensive book leads students systematically through the development of forms rendered in perspective, starting with simple boxes and working up to curvilinear jewelry objects. Beyond teaching the ability to render forms clearly for clients, this instruction will hone the ability to think three dimensionally.

This book was originally written in French and published in Quebec where the author teaches jewelry illustration. The English-language edition features a new layout and more durable cover, but otherwise retains every powerful image of the original. There are only a few books about jewelry rendering, and none of them reaches back to the basics with the depth or detail found here. Two-color, hardcover, spiral binding, 296 pages.

Description	Item#	Each
Jewelry Illustration - Book	**811-0074**	**$30.00**

C

D. Chasing: Ancient Metalworking Technique with Modern Applications *By Marcia Lewis*

Designed to be kept on the workbench along with chasing tools, this book serves as a convenient student reference. Presents the equivalent of a specialized workshop on metal chasing. Contains more than 150 representative photos and self-explanatory illustrations. Includes lists of resources and suppliers. Spiral-bound to lie flat. Softcover, 72 pages.

Description	Item#	Each
Chasing: Ancient Metalworking Technique - Book	**811-0114**	**$21.65**

D

E. The Flexible Shaft Machine: Jewelry Techniques – *By Harold O'Connor*

The flexible shaft machine is probably used more often than any other by the practicing craftsman. This book provides information in chart form on the various burs and abrasives available for use with flex shafts. Also covers many other flex shaft accessories. Contains clear line drawings and instructional black-and-white photos. Softcover, 47 pages.

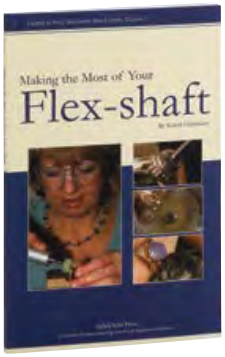
Description	Item#	Each
The Flexible Shaft Machine: Jewelry Techniques - Book	**811-0265**	**$16.00**

E

F. Making the Most of Your Flex-shaft – *By Karen Christians*

The first volume of the "Orchid in Print" series on basic bench practices. Explores all aspects of selecting, maintaining and using the most common tool on the jeweler's bench: the flex shaft. Covers the process of choosing the proper motor, foot pedal, handpiece and rotary tool; cutting drills and discs; abrasives and grinding wheels; and finishing. Includes a "Tips from the Orchid Library" section of helpful bench tips and tricks. Illustrated with full-color images. Softcover, 96 pages.

Description	Item#	Each
Making the Most of Your Flex-shaft - Book	**811-0266**	**$34.95**



F

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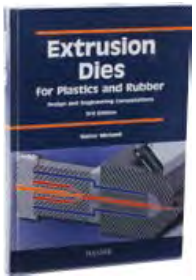
A

A. Introduction to Mold Making – *By SPI Moldmakers Division*

An illustrated guide to common molding processes, standard mold components, mold problems and solutions. Intended for the first-year apprentice or student mold maker. Suitable for engineers, managers and buyers who need an orientation to the technology of building molds for plastic or rubber. Softcover, 117 pages.

Description	Item#	Each
Introduction to Mold Making - Book	**811-0115**	**$39.35**

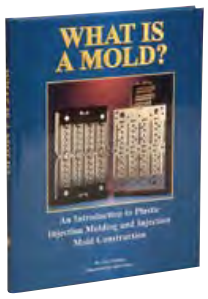


B

B. Extrusion Dies for Plastics and Rubber – 4th Edition, *By Walter Michaeli*

Presents a concise look at the full range of dies used for extrusion of plastics and elastomers. Revised with updated advice on the mechanical configurations of dies, handling, maintenance and computer-aided options and limitations. Fundamentals and computational procedures are easy to follow. Hardcover, 340 pages.

Description	Item#	Each
Extrusion Dies for Plastics and Rubber - Book	**811-0135**	**$99.95**



C

C. What is a Mold? – *By Len Graham*

A well-organized, structured tutorial that explains basic terms and processes critical to an understanding of injection molds. Examines topics such as common plastics, injection molding, molding processes, injection molds and cold and hot runner delivery systems. Each chapter concludes with a test of the subject matter discussed. Illustrated with ten highly useful appendices and a glossary of terms. Hardcover, 156 pages.

Description	Item#	Each
What is a Mold? - Book	**811-0143**	**$50.00**

D

D. Mold Polishing Made Easy – *By Martin McGrath*

A very detailed but simple approach to mold polishing. Emphasizes obtaining the required finish in the least amount of time. Takes the polisher step-by-step from the EDM or machine finish to the final #2 or #1 polish. Covers "orange peel" (and methods for avoiding or remedying the problem), timesaving tips on slots and radii, troubleshooting and repair of a finish and efficient use of ultrasonic polishers and air-powered tools. Very specifically suggests what kinds of stones, brushes and felts to use in each area and, most importantly, when to move on to the next step. Whether you are a tool and die student, mold polisher or veteran mold maker, this 6' x 9' reference manual should have a place in your toolbox. Softcover, 24 pages.

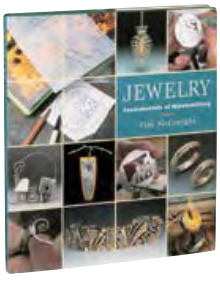
Description	Item#	Each
Mold Polishing Made Easy - Book	**811-0210**	**$14.95**

E

E. Flatware Manual – *By Gesswein*

Outlines the step-by-step processes for making handwrought flatware from both bar metal and blanked metal. Includes patterns for a 10-piece dinner set. Spiral-bound to lie flat. Printed on one side only. Softcover, 15 pages.

Description	Item#	Each
Flatware Manual - Book	**810-2700**	**$9.50**



F

F. Jewelry: Fundamentals of Metalsmithing – *By Tim McCreight*

Provides information, photos and drawings that take beginner and intermediate jewelers through various jewelry making projects step-by-step. Explains fabricating, surface treatments, joining, finishing, stone setting, chain making, mechanisms and casting. Shows finished pieces of contemporary jewelry resulting from each technique. Hardcover 143 pages.

The author is an experienced craftsman and teacher, having published six books about working with metals. He is currently head of the Department of Metalsmithing & Jewelry at the Maine College of Art in Portland. His best-known book, *The Complete Metalsmith*, has become a standard text for students around the world.

Description	Item#	Each
Jewelry: Fundamentals of Metalsmithing - Book	**810-2910**	**$29.95**

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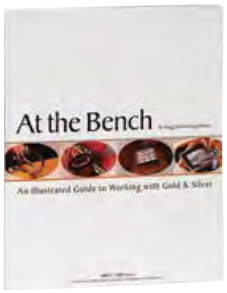
A. At the Bench: An Illustrated Guide to Working with Gold & Silver
By Gregg Todd and Greg Gilman

At the Bench offers step-by-step instructions on the repair and fabrication of gold and silver jewelry, as well as insights into bench preparation, safe practices for bench jewelers and tips for taking in repairs. Chapters include Sizing Up a Ring Using a Butt Joint, Dovetail Sizing, Sizing Down a Gold Two-Tone Ring, Rebuilding a Channel Setting, Three Retipping Techniques for Gold or Silver Prongs, Pavé Setting, Fabricating Silver Filigree, Basic Chasing and Repoussé, Detailing a Wax Pattern for Lost-Wax Casting, Dos and Don'ts for Polishing Success and others. Contains over 200 full-color photographs. Hardcover, 116 pages.

Description	Item#	Each
At the Bench: An Illustrated Guide to Working with Gold & Silver - Book	**811-0002**	**$28.50**



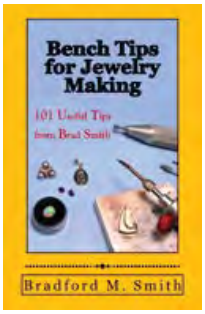
A

B. Bench Tips for Jewelry Making – *By Bradford M. Smith*

In every field the top artisans have their favorite ways of solving common problems. Making a piece of fine jewelry is no exception. The work is intricate, but accomplished jewelers have a variety of techniques, special tools and shortcuts that are proven to save time and improve the quality of the work. This book is written as a resource for jewelers with skill levels from beginner through advanced.

The bench tips come from Brad Smith's 17 years of experience in the jewelry industry, including a decade teaching hundreds of students. They include over 20 ways to save time when soldering and polishing, 8 common hazards to avoid, many ways to cut costs, 10 tips to improve stone setting skills, and the "Must-Have" tools for increasing productivity.

Description	Item#	Each
The Platinum Bench - Book	**811-0078**	**$19.95**



B

C. The Platinum Bench – *By Jurgen J. Maerz*

This illustrated guide to common bench techniques shows how easy platinum repair and fabrication can be. Includes step-by-step instructions on resizing rings, replacing heads, retipping prongs and making components, among other projects. Features guides for selecting platinum alloys, preparing for bench work and casting in a small shop. A valuable addition to every jeweler's bench. Contains more than 200 photos. Softcover, 112 pages.

Description	Item#	Each
The Platinum Bench - Book	**811-0017**	**$22.95**

C

D. Form Emphasis for Metalsmiths – *By Heikki Seppa*

Written by a master artist and teacher of metalwork, this book offers a bold approach to creative expression in metal. Urges artists to free themselves from the functional forms that have dominated the metalsmith's craft. Shows craftsmen how to create in terms of pure form. Includes an extensive glossary of illustrated terms. Assumes working knowledge of metalworking tools and techniques. Softcover, 146 pages.

Description	Item#	Each
Form Emphasis for Metalsmiths - Book	**811-0027**	**$19.95**

D

E. Silversmithing and Art Metal – *By Murray Bovin, Revised by Peter M. Bovin*

Drawing from the author's extensive experience as a craftsman, this book explains contemporary methods of hand-forming silver, copper and related metals into useful and decorative objects. Includes information on tools and equipment, metalworking techniques, forming techniques, decorative processes and more. Contains hundreds of black-and-white photos and sketches, many of which are of the author's own finished pieces. Softcover, 176 pages.

Description	Item#	Each
Silversmithing and Art Metal - Book	**811-0032**	**$28.25**

E

F. Introduction to Precious Metals Metallurgy for Jewelers and Silversmiths – *By Mark Grimwade*

Author Mark Grimwade has devoted more than three decades to the study of the behavior of precious metals and their alloys. As a consultant to the Worshipful Company of Goldsmiths and the World Gold Council, among others, he has been at the forefront of technical development. As a professor at London University, he has honed his skills of making complicated phenomena accessible to non-scientists.

In this impressive expanded edition of his groundbreaking 1985 book, students and professional artists working in metal will find answers to questions that have plagued them for years. Hard cover, 240 pages.

Description	Item#	Each
Intro to Precious Metals - Book	**811-0069**	**$35.00**

F

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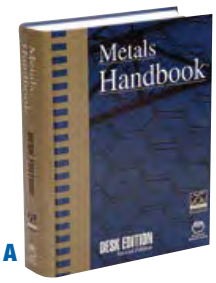
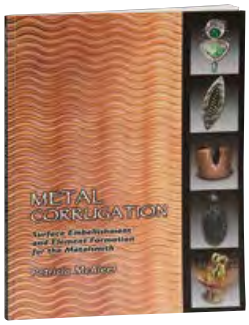


A

A. Metals Handbook – Desk Edition, *By ASM International*

Considered the leading reference for metals technology. Divided into four parts: General Information includes a complete glossary of terms and common engineering tables; Properties and Selection covers all standard industrial alloys; Processing presents a how-to approach for solving production problems; Testing and Inspection examines general testing procedures and quality control. Hardcover, 1,294 pages.

Description	Item#	Each
Metals Handbook - Book	**811-0120**	**$286.00**

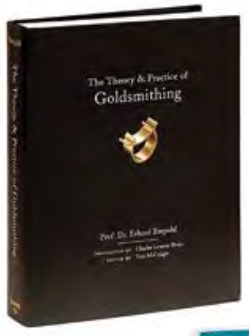


B

B. Metal Corrugation: Surface Embellishment and Element Formation for the Metalsmith – *By Patricia McAleer*

Shows you how to create surface textures and elements that capture the imagination and provide inspiration. Offers detailed instructions, tips and tricks that guide you through choosing the right tools and using them to create a wide variety of beautiful corrugated effects, including waves, honeycomb, diagonal and cross corrugation, dapped corrugation, pattern crimped, pattern alternation and more. Helps you produce anything from a hard-edged industrial look to a natural organic look. A must-have for all metalsmiths. Softcover, 137 pages.

Description	Item#	Each
Metal Corrugation: Surface Embellishment and Element Formation for the Metalsmith - Book	**811-0121**	**$29.95**

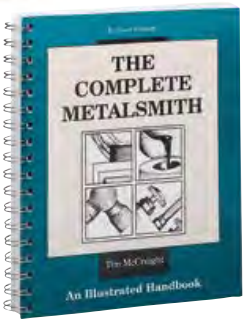


C

C. The Theory & Practice of Goldsmithing – *By Prof. Dr. Erhard Brepohl*

Since the first printing of this book in 1961, "The Brepohl" has become a standard text for the training of goldsmiths and a recognized general reference book for professional workshop practice. Discusses materials in early chapters, focusing on gold, silver and platinum. Covers the chemistry and physics of material usage as well as the mechanisms of soldering, eutectic bonding and electroplating, silversmithing, chain making, findings, gems, stone setting and jewelry repair. A must-have for the serious jeweler. Contains ample photos, drawings and charts. Hardcover, 536 pages.

Description	Item#	Each
The Theory & Practice of Goldsmithing - Book	**811-0208**	**$70.00**



D

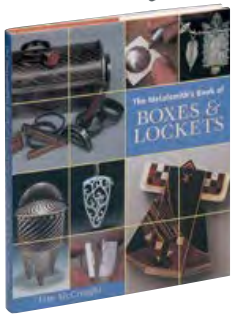
E

F

D-F The Complete Metalsmith – *By Tim McCreight*

A unique resource for the beginning student, teacher and working craftsperson. Devotes each page to a single technique, explaining it in text and with numerous line illustrations. Provides more information, more illustrations and a larger reference section than the previous edition. Covers basic metalworking techniques such as stone setting, soldering, polishing and casting, paying particular attention to safety. Contains over 2,500 illustrations. Spiral-bound to lie flat. Softcover, 197 pages. The video and DVD formats are excellent companions to the book. Shows basic metalworking techniques such as stone setting, soldering, polishing and casting, paying particular to safety. 70 minutes.

	Description	Item#	Each
D.	The Complete Metalsmith - Book	**811-0250**	**$18.95**
E.	DVD Format	**811-0256**	**39.95**
F.	VHS Format	**811-0255**	**39.95**



G

G. The Metalsmith's Book of Boxes & Lockets – *By Tim McCreight*

A must-have in any jeweler's library. Introduces a variety of metalworking techniques for box construction, hinges and closing devices. Offers meticulous instructions to prepare even novice metalworkers for the challenges of designing their own boxes. Uses hundreds of full-color photos to inspire the reader's creativity. Hardcover, 144 pages.

Description	Item#	Each
The Metalsmith's Book of Boxes & Lockets - Book	**811-0252**	**$29.95**

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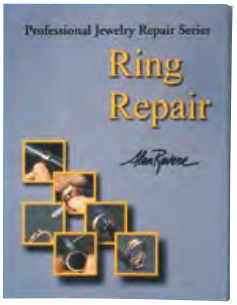
A. Ring Repair – *By Alan Revere*

The only book devoted solely to ring repair. Documents the repair, alteration and restoration of gold, silver and platinum rings. Visually documents 15 of the most common repair jobs. Discusses topics such as tool requirements and safety precautions. Excellent for students and repair jewelers alike. Comes complete with a laminated copy of the *Quality Assurance Guide to Ring Repairs*, published by Jewelers of America. Contains over 140 close-up photos and 90 black-and-white sketches. Softcover, 125 pages.

Description	Item#	Each
Ring Repair - Book	**811-0030**	**$44.95**



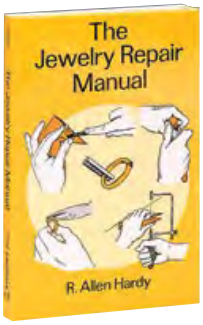
A

B The Jewelry Repair Manual – 2nd Edition Republication, *By R. Allen Hardy*

Written for jewelers who wish to expand their jewelry repair businesses, this manual helps both novices and experienced craftspeople. Provides clear step-by-step instructions for jewelry cleaning and repair and stone setting, as well as descriptions of necessary tools and equipment and directions for their proper use and care.

Offers newcomers detailed explanations of basic procedures, such as filing, soldering, buffing and mounting. Teaches jewelers to perform a wide range of repairs on-site, enabling them to offer customers faster, better service. Helps increase repair volume as well as sales. Features a thorough index and an extensive appendix with FAQs reprinted from American Horologist and Jeweler, for which the author worked as technical editor for 16 years. Contains 268 black-and-white illustrations. Softcover, 304 pages.

Description	Item#	Each
The Jewelry Repair Manual - Book	**811-0291**	**$14.95**

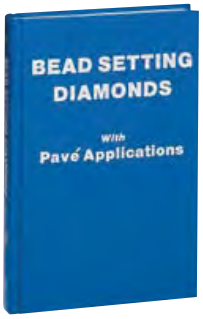


B

C. Bead Setting Diamonds with Pavé Applications – *By Robert R. Wooding*

A well-organized step-by-step instruction book on bead setting. Describes everything from simple setting with one stone to pavé setting with many stones. Includes a concise guide on proper tool selection, usage and care. Takes the student through each phase of operation with clear text and black-and-white photos. Hardcover, 192 pages.

Description	Item#	Each
Bead Setting Diamonds with Pavé Applications - Book	**811-0037**	**$29.95**

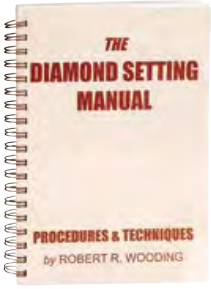


C

D. The Diamond Setting Manual: Procedures & Techniques – *By Robert R. Wooding*

An invaluable reference intended for experienced diamond setters and students under the supervision of a diamond setting instructor. Covers basic, intermediate and advanced types of setting in 17 progressive chapters. Provides detailed step-by-step instructions with easy-to-follow illustrations and helpful tool recommendations. Includes an extended appendix of tools and techniques that covers basics of graver preparation, bur use, drilling, filing, sawing, hammering, burnishing and more. Spiral-bound to lie flat. Softcover, 233 pages.

Description	Item#	Each
The Diamond Setting Manual: Procedures & Techniques - Book	**811-0038**	**$39.95**



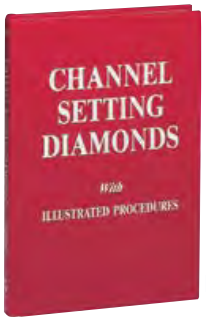
D

E, F Channel Setting Diamonds with Illustrated Procedures – *By Robert R. Wooding*

Available in book or DVD versions. The book is divided into two general sections: Section I describes basic channel setting techniques in phases, and Section II details a series of channel setting procedures. Provides step-by-step instructions graduated from basic to advanced in each section. Covers inspection, layout, cutting channels, cutting bearings, inlaid channels, finishing, basic closed channels, basic open channels, curved channels, tapered channels, angular channels and securing diamonds. Contains over 120 illustrations. Hardcover, 136 pages. The DVD runs 60 minutes.

	Description	Item#	Each
E.	Channel Setting Diamonds with Illustrated Procedures - Book	**811-0039**	**$29.95**
F.	Channel Setting Diamonds with Illustrated Procedures - DVD	**811-0040**	**39.95**

F



E

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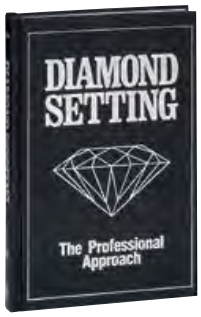


A

A. Diamond Setting: The Professional Approach – *By Robert R. Wooding*

Written to teach diamond setting, this book is basic enough to be understood by an inexperienced apprentice yet sufficient in depth to benefit a seasoned diamond setter. Strives to teach setting perfection. Starts with descriptions of tools and their uses and concludes with an advanced chapter on bead setting. Uses many clear line drawings to illustrate the text. Hardcover, 178 pages.

Description	Item#	Each
Diamond Setting: The Professional Approach - Book	**811-0288**	**$29.95**

B

B. Diamond Setting: Marquise Diamonds – *By Robert R. Wooding*

Another masterpiece in the *Diamond Setting* series by the renonwned Robert R. Wooding. Clearly presents step-by-step procedures and techniques for setting marquise diamonds. Covers inspection, layout, basic setting, advanced setting, finishing and many special procedures. DVD format, 40 minutes.

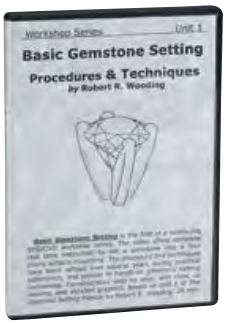
Description	Item#	Each
Diamond Setting: Marquise Diamonds - DVD	**811-0296**	**$39.95**

C

C. Diamond Setting: Fancy Cut Diamonds – *By Robert R. Wooding*

An excellent video that demonstrates advanced techniques for setting fancy cut diamonds into standard prong and V-prong ring mountings. Gives clear and concise start-to-finish instructions on setting oval, pear, heart, marquise, triangular and emerald shapes. Divided into seven separate segments for fast, easy access. A great tool for learning advanced diamond setting in your own home. DVD format, 110 minutes.

Description	Item#	Each
Diamond Setting: Fancy Cut Diamonds - DVD	**811-0300**	**$39.95**



D

D. Basic Gemstone Setting: Procedures & Techniques – *By Robert R. Wooding*

Basic Gemstone Setting is the first of a continuing video workshop series. Offers complete real-time instruction on setting a gemstone into a four-prong solitaire mounting, with procedures and techniques refined over many years of practical experience and proven in hands-on gemstone setting workshops. Demonstrated step-by-step with close-up photography and detailed graphics. Based on Unit 1 of The Diamond Setting Manual, also by Robert R. Wooding. DVD format, 24 minutes.

Description	Item#	Each
Basic Gemstone Setting: Procedures and Techniques - DVD	**811-0310**	**$29.95**

E

E. Diamond Setting Pavé – *By Robert R. Wooding*

A well-produced instructional DVD by master setter Robert R. Wooding. Shows all the details of pavé setting with beautiful close-ups of all steps. Enables you to pavé set with supreme confidence. Assumes understanding of basic setting techniques. DVD format, 60 minutes.

Description	Item#	Each
Diamond Setting Pavé - DVD	**811-0391**	**$39.95**

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A. How to Create Settings in Metal Wire and Wax – *By Adolfo Mattiello*

A clearly written and illustrated book by the popular jewelry designer and manufacturer of specialty tools for wax working. Features step-by-step instructions for making 10 of the most commonly used wire settings. Also includes comprehensive instructions on joining and creating wax settings and special settings for more than one stone. Contains over 250 diagrams. Softcover, 33 pages. Comes complete with two flexible plastic templates: one is for round settings and stones; the other is for marquise, pear and oval settings and stones. Softcover, 33 pages.

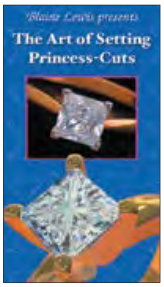
Description	Item#	Each
How to Create Settings in Metal Wire and Wax - Book	**810-2955**	**$49.35**

A

B. The Art of Setting Princess Cuts Package – *By Blaine Lewis*

Covers safe and efficient techniques for setting princess-cut and fancy-cut stones into both common and V-prong heads. Includes practice mountings and CZ stones, large precut V-prong and common-prong models that guide you through all processes and the three essential burs needed for bearing-cutting procedures. Purchase entitles user to free technical support via phone or the Blaine Lewis Web site. DVD or VHS format, 150 minutes.

	Description	Item#	Each
B.	DVD Format	**811-0053**	**$179.00**
	VHS Format	**811-0052**	**179.00**

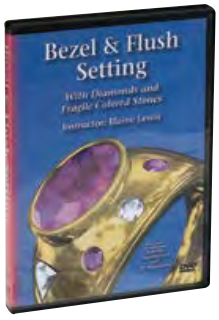


B

C. Bezel and Flush Setting DVD Package – *By Blaine Lewis*

Clarifies even the most difficult stone setting procedures. Presents literally hundreds of techniques for setting colored stones and diamonds quickly and efficiently. Demonstrates multiple layout procedures, proper bearing cutting techniques for irregularly shaped stones, enhanced securing methods, tool making, cleanup tricks and much more. Includes DVD, practice mountings (made of a special alloy that closely simulates the working properties of yellow gold) and CZ stones. Purchase entitles user to free technical support via phone or the Blaine Lewis Web site. DVD format, 150 minutes.

Description	Item#	Each
Bezel and Flush Setting DVD Package	**811-0066**	**$179.00**



C

D. Creative Stone Setting – *By John Cogswell*

John Cogswell is a highly respected craftsman and much loved teacher. In this landmark book he shares more than three decades of professional experience in the jewelry field.

Most stonesetting literature focuses on conventional bezels or trade practices of setting faceted stones in commercial mountings. Creative Stonesetting addresses the exciting and under-explored realms of unique settings made at the bench to secure and enhance unusual gems.

With his characteristic thoroughness and humor, the author explains the tools, concepts, and procedures for a vast number of settings. Illustrated with more than 600 drawings by the author and dozens of innovative examples. Hardcover, 208 pages.

Description	Item#	Each
Creative Stone Setting - Book	**811-0073**	**$35.00**

D

E. Carving and Painting the American Kestrel for Beginners and Professionals – *With Floyd Scholz*

This up-close instructional DVD by world champion carver Floyd Scholz shows you how to transform a block of tupelo wood into a lifelike sculpture of a male American kestrel. Points out the unique physical traits of a live kestrel before delving into full instruction. Uses a wide variety of close-ups and camera angles to cover the whole process clearly from beginning to end. Reveals award-winning methods and insider tricks for carving, texturing and painting. Two-DVD set, 270 minutes.

Description	Item#	Each
Carving and Painting The American Kestrel - DVD	**811-0305**	**$49.95**

E

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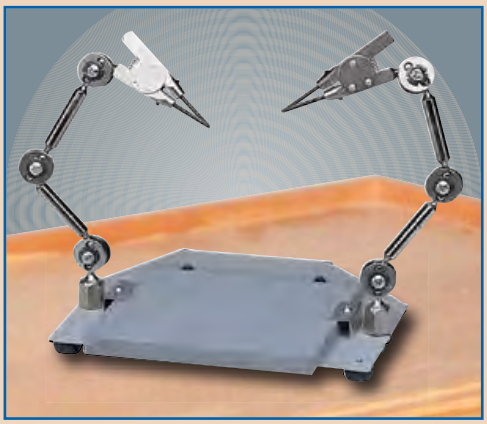

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Tapered Cartridge Rolls - p. 68

Abrasive Belt Sticks - p. 73

Measurement Comparison Chart

inch	mm	B&S Gauge	Stubb's Steel Wire	Drill#
.0030	0.076	–	–	–
.0040	0.102	–	–	–
.0050	0.127	–	–	–
.0059	0.150	–	–	97
.0060	0.152	–	–	–
.0063	0.160	–	–	96
.0067	0.170	–	–	95
.0070	0.178	–	–	–
.0071	0.180	–	–	94
.0075	0.190	–	–	93
.0079	0.200	–	–	92
.0080	0.203	–	–	–
.0083	0.210	–	–	91
.0087	0.220	–	–	90
.0090	0.229	–	–	–
.0091	0.230	–	–	89
.0095	0.241	–	–	88
.0100	0.254	–	–	87
.0105	0.267	–	–	86
.0110	0.279	–	–	85
.0115	0.292	–	–	84
.0120	0.305	–	–	83
.0125	0.320	–	–	82
.0130	0.330	–	80	81
.0135	0.343	–	–	80
.0140	0.356	–	79	–
.0142	0.361	27	–	–
.0145	0.369	–	–	79
.0150	0.381	–	78	–
.0159	0.404	26	–	–
.0160	0.406	–	77	78
.0179	0.455	25	–	–
.0180	0.457	–	76	77
.0200	0.508	–	75	76
.0201	0.511	24	–	–
.0210	0.533	–	–	75
.0220	0.559	–	74	–
.0225	0.572	–	–	74
.0226	0.574	23	–	–
.0230	0.584	–	73	–
.0240	0.610	–	72	73
.0250	0.635	–	–	72
.0253	0.643	22	–	–
.0260	0.660	–	71	71
.0270	0.685	–	70	–
.0280	0.712	–	–	70
.0285	0.724	21	–	–
.0290	0.737	–	69	–
.02925	0.743	–	–	69
.0300	0.762	–	68	–
.0310	0.787	–	67	68
.0320	0.813	20	66	67
.0330	0.838	–	65	66
.0350	0.889	–	64	65
.0359	0.912	19	–	–
.0360	0.914	–	63	64
.0370	0.940	–	62	63
.0380	0.965	–	61	62
.0390	0.990	–	60	61
.0400	1.016	–	59	60
.0403	1.024	18	–	–
.0410	1.041	–	58	59
.0420	1.067	–	57	58
.0430	1.092	–	–	57
.0450	1.143	–	56	–
.0453	1.151	17	–	–
.0465	1.181	–	–	56
.0500	1.270	–	55	–
.0508	1.290	16	–	–
.0520	1.321	–	–	55
.0550	1.397	–	54	54
.0571	1.450	15	–	–
.0580	1.473	–	53	–
.0595	1.512	–	–	53
.0630	1.600	–	52	–
.0635	1.613	–	–	52
.0641	1.629	14	–	–
.0660	1.676	–	51	–
.0670	1.702	–	–	51
.0690	1.753	–	50	–
.0700	1.778	–	–	50
.0720	1.829	13	49	–
.0730	1.854	–	–	49
.0750	1.905	–	48	–
.0760	1.930	–	–	48
.0770	1.956	–	47	–
.0785	1.994	–	–	47
.0790	2.007	–	46	–
.0808	2.052	12	–	–
.0810	2.057	–	45	46
.0820	2.083	–	–	45
.0850	2.159	–	44	–
.0860	2.184	–	–	44
.0880	2.235	–	43	–
.0890	2.261	–	–	43
.0907	2.304	11	–	–
.0920	2.337	–	42	–
.0935	2.378	–	–	42
.0950	2.413	–	41	–
.0960	2.438	–	–	41
.0970	2.464	–	40	–
.0980	2.489	–	–	40
.0990	2.515	–	39	–
.0995	2.528	–	–	39
.1010	2.565	–	38	–
.1015	2.578	–	–	38
.1019	2.588	10	–	–
.1030	2.616	–	37	–
.1040	2.642	–	–	37
.1060	2.692	–	36	–
.1065	2.705	–	–	36
.1080	2.743	–	35	–
.1100	2.794	–	34	35
.1110	2.819	–	–	34
.1120	2.845	–	33	–
.1130	2.870	–	–	33
.1144	2.906	9	–	–
.1150	2.921	–	32	–
.1160	2.946	–	–	32
.1200	3.048	–	31	31
.1270	3.226	–	30	–
.1285	3.264	8	–	30
.1340	3.404	–	29	–
.1360	3.454	–	–	29
.1390	3.531	–	28	–
.1405	3.573	–	–	28
.1430	3.636	–	27	–
.1440	3.662	–	–	27
.1443	3.670	7	–	–
.1460	3.712	–	26	–
.1470	3.758	–	–	26
.1480	3.763	–	25	–
.1495	3.802	–	–	25
.1510	3.835	–	24	–
.1520	3.861	–	–	24
.1530	3.886	–	23	–
.1540	3.912	–	–	23
.1550	3.937	–	22	–
.1570	3.988	–	21	22
.1590	4.039	–	–	21
.1610	4.085	–	20	20
.1620	4.111	6	–	–
.1640	4.162	–	19	–
.1660	4.212	–	–	19
.1680	4.263	–	18	–
.1695	4.302	–	–	18
.1720	4.371	–	17	–
.1730	4.396	–	–	17
.1750	4.447	–	16	–
.1770	4.498	–	–	16
.1780	4.523	–	15	–
.1800	4.570	–	14	15
.1819	4.618	5	–	–
.1820	4.621	–	13	14
.1850	4.697	–	12	13
.1880	4.773	–	11	–
.1890	4.799	–	–	12
.1910	4.855	–	10	11
.1935	4.919	–	–	10
.1940	4.932	–	9	–
.1960	4.982	–	–	9
.1970	5.008	–	8	–
.1990	5.059	–	7	8
.2010	5.105	–	6	7
.2040	5.182	–	5	6
.2043	5.189	4	–	–
.2055	5.220	–	–	5
.2070	5.258	–	4	–
.2090	5.309	–	–	4
.2120	5.381	–	3	–
.2130	5.406	–	–	3
.2190	5.559	–	2	–
.2210	5.615	–	–	2
.2270	5.768	–	1	–
.2280	5.793	–	–z	1
.2294	5.829	3	–	–
.2576	6.543	2	–	–
.2893	7.346	1	–	–

Fraction, Inch and Millimeter Conversion Chart

Fraction	inch	mm
1/64	.0156	0.3969
1/32	.0313	0.7937
3/64	.0469	1.1906
1/16	.0625	1.5875
5/64	.0781	1.9843
3/32	.0937	2.3812
7/64	.1094	2.7781
1/8	.1250	3.1750
9/64	.1406	3.5718
5/32	.1562	3.9687
11/64	.1719	4.3656
3/16	.1875	4.7624
13/64	.2031	5.1593
7/32	.2187	5.5562
15/64	.2344	5.9530
1/4	.2500	6.3499

Fraction	inch	mm
17/64	.2656	6.7468
9/32	.2812	7.1437
19/64	.2969	7.5405
5/16	.3125	7.9374
21/64	.3281	8.3343
11/32	.3438	8.7312
23/64	.3594	9.1280
3/8	.3750	9.5249
25/64	.3906	9.9217
13/32	.4062	10.3186
27/64	.4219	10.7155
7/16	.4375	11.1124
29/64	.4531	11.5092
15/32	.4687	11.9061
31/64	.4844	12.3030
1/2	.5000	12.6999

Fraction	inch	mm
33/64	.5156	13.0968
17/32	.5313	13.4936
35/64	.5469	13.8905
9/16	.5625	14.2874
37/64	.5781	14.6842
19/32	.5938	15.0811
39/64	.6094	15.4780
5/8	.6250	15.8749
41/64	.6406	16.2717
21/32	.6563	16.6686
43/64	.6719	17.0655
11/16	.6875	17.4623
45/64	.7031	17.8592
23/32	.7188	18.2561
47/64	.7344	18.6529
3/4	.7500	19.0498

Fraction	inch	mm
49/64	.7656	19.4467
25/32	.7813	19.8436
51/64	.7969	20.2404
13/16	.8125	20.6373
53/64	.8281	21.0342
27/32	.8436	21.4311
55/64	.8594	21.8279
7/8	.8750	22.2248
29/32	.9063	23.0185
59/64	.9219	23.4154
15/16	.9375	23.8123
61/64	.9531	23.2091
31/32	.9686	24.6060
63/64	.9844	25.0029
1	1.0000	25.3998

Metal Thicknesses in Millimeters and B&S Gauge

Ring Size	Circumference in mm	2.1mm 12ga.	1.6mm 14ga.	1.3mm 18ga.	1mm 18ga.	0.8mm 20ga.	0.6mm 22ga.	0.5mm 24ga.
1	39.0	45.5	44.2	43.0	42.1	41.5	40.9	40.5
1¼	39.6	46.2	44.6	43.6	42.7	42.1	41.5	41.1
1½	40.2	46.9	45.2	44.3	43.3	42.7	42.1	41.8
1¾	40.8	47.7	45.8	44.9	44.0	43.3	42.7	42.4
2	41.5	48.0	46.5	45.5	44.6	44.0	43.3	43.0
2¼	42.1	48.7	47.1	46.2	45.2	44.6	44.0	43.6
2½	42.7	49.3	47.7	46.8	45.8	45.2	44.6	44.3
2¾	43.4	49.9	48.4	47.4	46.5	45.8	45.2	44.9
3	44.0	50.6	49.0	48.0	47.1	46.5	45.8	45.6
3¼	44.6	51.2	49.6	48.7	47.7	47.1	46.5	46.2
3½	45.2	51.8	50.2	49.3	48.4	47.7	47.1	46.8
3¾	45.9	52.4	50.9	49.9	49.0	48.4	47.7	47.4
4	46.5	53.1	51.5	50.6	49.6	49.0	48.3	48.0
4¼	47.1	53.7	52.1	51.2	50.2	49.6	49.0	48.7
4½	47.8	54.3	52.8	51.8	50.9	50.2	49.6	49.3
4¾	48.4	55.0	53.4	52.4	51.5	50.9	50.2	49.9
5	49.0	55.6	54.0	53.1	52.1	51.5	50.9	50.6
5¼	49.6	56.2	54.6	53.7	52.8	52.1	51.5	51.2
5½	50.3	56.8	55.3	54.3	53.4	52.7	52.1	51.8
5¾	50.9	57.5	55.9	55.0	54.0	53.4	52.8	52.4
6	51.5	58.1	56.5	55.6	54.6	54.0	53.4	53.1
6¼	52.2	58.7	57.1	56.2	55.3	54.6	54.0	53.7
6½	52.8	59.3	57.8	56.8	55.9	55.3	54.6	54.3
6¾	53.4	60.0	58.4	57.5	56.5	55.9	55.3	55.0
7	54.0	60.6	59.0	58.1	57.1	56.5	55.9	55.6
7¼	54.7	61.2	59.7	58.7	57.8	57.1	56.5	56.2
7½	55.3	61.9	60.3	59.3	58.4	57.8	57.1	56.8
7¾	55.9	62.5	60.9	60.0	59.0	58.4	57.8	57.5
8	56.6	63.1	61.5	60.6	59.7	59.0	58.4	58.1
8¼	57.2	63.7	62.2	61.2	60.3	59.7	59.0	58.7
8½	57.8	64.4	62.8	61.9	60.9	60.3	59.7	59.3
8¾	58.4	65.0	63.4	62.5	61.5	60.9	60.3	60.0
9	59.1	65.6	64.1	63.1	62.2	61.5	60.9	60.6
9¼	59.7	66.3	64.7	63.7	62.8	62.2	61.5	61.2
9½	60.3	66.9	65.3	64.4	63.4	62.8	62.2	61.9
9¾	60.9	67.5	65.9	65.0	64.1	63.4	62.8	62.5
10	61.6	68.1	66.6	65.6	64.7	64.1	63.4	63.1
10¼	62.2	68.8	67.2	66.3	65.3	64.7	64.1	63.7
10½	62.8	69.4	67.8	66.9	65.9	65.3	64.7	64.4
10¾	63.5	70.0	68.5	67.5	66.6	65.9	65.3	65.0
11	64.1	70.7	69.1	68.1	67.2	66.6	65.9	65.6
11¼	64.7	71.3	69.7	68.8	67.8	67.2	66.6	66.3
11½	65.3	71.9	70.3	69.4	68.5	67.8	67.2	66.9
11¾	66.0	72.5	71.0	70.0	69.1	68.5	67.8	67.5
12	66.6	73.2	71.6	70.7	69.7	69.1	68.5	68.1
12¼	67.2	73.8	72.2	71.3	70.3	69.7	69.1	68.8
12½	67.9	74.4	72.8	71.9	71.0	70.3	69.7	69.4
12¾	68.5	75.0	73.5	72.5	71.6	71.0	70.3	70.0
13	69.1	75.7	74.1	73.2	72.2	71.6	71.0	70.7

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Conversion Charts

Volume (Liquid)

To convert the following to:	fluid ounces (fl. oz.)	U.S. gallons (gals.)	milliliters (ml)	liters (L)
Multiply number of	By	By	By	By
fluid ounces	1	0.0078125	29.57353	0.02957353
U.S. gallons	128	1	3,785	3.785
milliliters	0.03381402	0.000264172	1	0.001
liters	33.81402	0.2641720	1,000	1

Mass

To convert the following to:	ounces (oz.)	pounds (lbs.)	grams (g)	kilograms (kg)
Multiply number of	By	By	By	By
ounces	1	0.0625	28.34952	0.02834952
pounds	16	1	453.5924	0.4535924
grams	0.03527397	0.002204623	1	0.001
kilograms	35.273952	2.204622	1,000	1

Length

To convert the following to:	meters (m)	centimeters (cm)	millimeters (mm)	inches (in.)	feet (ft.)
Multiply number of	By	By	By	By	By
meters	1	100	1,000	39.37	3.28
centimeters	0.01	1	10	0.394	0.0328
millimeters	0.001	0.1	1	0.0394	0.00328
inches	0.0254	2.540	25.40	1	0.0833
feet	0.3048	30.48	304.8	12	1

Area

To convert the following to:	square meters (m^2)	square inches ($in.^2$)	square feet ($ft.^2$)	sq. centimeters (cm^2)	sq. millimeters (mm^2)
Multiply number of	By	By	By	By	By
square meters	1	1,550	10.76	10,000	10^6
square inches	6.452×10^{-4}	1	6.94×10^{-3}	6.452	645.2
square feet	0.0929	144	1	929	92,903
square centimeters	0.0001	0.155	0.001	1	100
square millimeters	10^{-6}	0.00155	0.00001	0.01	1

Packaging Conversions

1 kPa = 0.1450377 PSI	625cc ≈ 21 fl. oz.
1 kPa = 7.5mm Hg	950cc ≈ 32 fl. oz.
1 psi = 6.9 kPa	1,000cc = 1 liter ≈ 33.8 fl. oz.

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Conversion Charts

Multiply	By	To Calculate
Centimeters	0.3937	Inches
Centimeters	0.0328	Feet
Cubic centimeters	0.0610	Cubic inches
Cubic centimeters	3.531×10^{-5}	Cubic feet
Cubic feet	1728	Cubic inches
Cubic feet	0.0283	Cubic meters
Cubic feet	7.4805	Gallons
Cubic feet	28.32	Liters
Cubic feet	59.84	Pints (liq)
Cubic feet	29.92	Quarts (liq)
Cubic inches	0.004329	Gallons
Cubic inches	0.01639	Liters
Cubic inches	0.0346	Pints (liq)
Cubic inches	0.0173	Quarts (liq)
Cubic inches	16.387	Cubic centimeters
Drams	27.34	Grains
Drams	0.0625	Ounces
Drams	1.7718	Grams
Feet	30.48	Centimeters
Gallons	3785	Cubic centimeters
Gallons	3.785	Liters
Gallons	8	Pints (liq)
Gallons	4	Quarts (liq)
Gallons	0.1337	Cubic feet
Gallons	231	Cubic inches
Gallons	0.0038	Cubic meters
Grams	15.4324	Grains
Grams	0.03527	Ounces
Grams	0.03215	Troy ounces
Grams	5	Carats
Inches	2.540	Centimeters
Kilograms	2.2046	Pounds
Liters	2.1133	Pints
Liters	1.0567	Quarts
Liters	0.2642	Gallons
Millimeters	0.03937	Inches
Ounces	0.0625	Pounds
Pints	0.4732	Liters
Pounds	0.4536	Kilograms
Quarts	0.9464	Liters
Square centimeters	0.1550	Square inches
Square centimeters	0.001076	Square feet
Square feet	929.0	Square centimeters
Square feet	92,903.04	Square millimeters
Square inches	6.452	Square centimeters
Square inches	645.2	Square millimeters
Square millimeters	00.153	Square inches

Troy Weight

24 grains	1 pennyweight
20 pennyweights	1 ounce
12 ounces	1 pound
The troy ounce is about 10% heavier than the avoirdupois ounce.	
Troy ounce x 1.0971 = avoirdupois ounce.	

Weight Relationships

1 carat 3,086 grains	1/5 gram
1 avoir lb. 7,000 grains	14.58 troy oz.
1 troy lb. 5,760 grains	13.17 avoir oz.
1 gram 15.432 grains	5 carats
1 avoir oz. 28.25 grams	.911 troy oz.
1 troy oz. 31.10 grams	1.097 avoir oz.

Douzieme Gauge

The gauge is divided into 72 sections or douziemes.	
1 douzieme = .0074 inch	1 gauge =
1 ligne = .0888 inch	12 douzieme =

Avoirdupois Weight

27 1/3 grams	1 dram
16 drams	1 ounce
16 ounces	1 pound
The avoirdupois pound is about 21 1/2% heavier than the troy pound.	
Avoirdupois ounce x 0.91146 = troy ounce.	

Temperature Conversion Formulas

To convert from Celsius to Fahrenheit:

(°C x 1.8) + 32 = °F

To convert from Fahrenheit to Celsius:

(°F - 32) ÷ 1.8 = °C

Volume

(Cubic measure calculation)	
Cylinder	$\varpi r^2 h$
Cube/Rectangle	L x W x H
Cone	$\frac{1}{3} \varpi r^2 h$
Sphere	$\frac{4}{3} \varpi r^3$

Area Calculations

Circle	ϖr^2 ($2\varpi r$ = circumference)
Square	L x W
Triangle	W x 1/2H

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Temperature Conversion Table

Read the reference temperature in boldfaced type in the center column. The corresponding Celsius temperature is at the left, and the corresponding Fahrenheit temperature is at the right.

Temperature Conversion Formulas: $°C = \frac{5}{9}(°F - 32)$ $°F = \frac{9}{5}°C + 32$

°C	Ref.	°F	°C	Ref.	°F	°C	Ref.	°F	°C	Ref.	°F	°C	Ref.	°F	°C	Ref.	°F	°C	Ref.	°F	°C	Ref.	°F
-17.9	**0**	32	24.4	**76**	168.8	321	**610**	1130	743	**1370**	2498	1166	**2130**	3866	1588	**2890**	5234	2010	**3650**	6602	2432	**4410**	7970
-17.2	**1**	33.8	25.0	**77**	170.6	327	**620**	1148	749	**1380**	2516	1171	**2140**	3884	1593	**2900**	5252	2016	**3660**	6620	2438	**4420**	7988
-16.7	**2**	35.6	25.6	**78**	172.4	332	**630**	1166	754	**1390**	2534	1177	**2150**	3902	1599	**2910**	5270	2021	**3670**	6638	2443	**4430**	8006
-16.1	**3**	37.4	26.1	**79**	174.2	338	**640**	1184	760	**1400**	2552	1182	**2160**	3920	1604	**2920**	5288	2027	**3680**	6656	2449	**4440**	8024
-15.6	**4**	39.2	26.7	**80**	176.0	343	**650**	1202	766	**1410**	2570	1188	**2170**	3938	1610	**2930**	5306	2032	**3690**	6674	2454	**4450**	8042
-15.0	**5**	41.0	27.2	**81**	177.8	349	**660**	1220	771	**1420**	2588	1193	**2180**	3956	1616	**2940**	5324	2038	**3700**	6692	2460	**4460**	8060
-14.4	**6**	42.8	27.8	**82**	179.6	354	**670**	1238	777	**1430**	2606	1199	**2190**	3974	1621	**2950**	5342	2043	**3710**	6710	2466	**4470**	8078
-13.9	**7**	44.6	28.3	**83**	181.4	360	**680**	1256	782	**1440**	2624	1204	**2200**	3992	1627	**2960**	5360	2049	**3720**	6728	2471	**4480**	8096
-13.3	**8**	46.4	28.9	**84**	183.2	366	**690**	1274	788	**1450**	2642	1210	**2210**	4010	1632	**2970**	5378	2054	**3730**	6746	2477	**4490**	8114
-12.8	**9**	48.2	29.4	**85**	185.0	371	**700**	1292	793	**1460**	2660	1216	**2220**	4028	1638	**2980**	5396	2060	**3740**	6764	2482	**4500**	8132
-12.2	**10**	50.0	30.0	**86**	186.8	377	**710**	1310	799	**1470**	2678	1221	**2230**	4046	1643	**2990**	5414	2066	**3750**	6782	2488	**4510**	8150
-11.7	**11**	51.8	30.6	**87**	188.6	382	**720**	1328	804	**1480**	2696	1227	**2240**	4064	1649	**3000**	5432	2071	**3760**	6800	2493	**4520**	8168
-11.1	**12**	53.6	31.1	**88**	190.4	388	**730**	1346	810	**1490**	2714	1232	**2250**	4082	1654	**3010**	5450	2077	**3770**	6818	2499	**4530**	8186
-10.6	**13**	55.4	31.7	**89**	192.2	393	**740**	1364	816	**1500**	2732	1238	**2260**	4100	1660	**3020**	5468	2082	**3780**	6836	2504	**4540**	8204
-10.0	**14**	57.2	32.2	**90**	194.0	399	**750**	1382	821	**1510**	2750	1243	**2270**	4118	1666	**3030**	5486	2088	**3790**	6854	2510	**4550**	8222
-9.44	**15**	59.0	32.8	**91**	195.8	404	**760**	1400	827	**1520**	2768	1249	**2280**	4136	1671	**3040**	5504	2093	**3800**	6872	2516	**4560**	8240
-8.89	**16**	60.8	33.3	**92**	197.6	410	**770**	1418	832	**1530**	2786	1254	**2290**	4154	1677	**3050**	5522	2099	**3810**	6890	2521	**4570**	8258
-8.33	**17**	62.6	33.9	**93**	199.4	416	**780**	1436	838	**1540**	2804	1260	**2300**	4172	1682	**3060**	5544	2104	**3820**	6908	2527	**4580**	8276
-7.78	**18**	64.4	34.4	**94**	201.2	421	**790**	1454	843	**1550**	2822	1266	**2310**	4190	1688	**3070**	5558	2110	**3830**	6926	2532	**4590**	8294
-7.22	**19**	66.2	35.0	**95**	203.0	427	**800**	1472	849	**1560**	2840	1271	**2320**	4208	1693	**3080**	5576	2116	**3840**	6944	2538	**4600**	8312
-6.67	**20**	68.0	35.6	**96**	204.8	432	**810**	1490	854	**1570**	2858	1277	**2330**	4226	1699	**3090**	5594	2121	**3850**	6962	2543	**4610**	8330
-6.11	**21**	69.8	36.1	**97**	206.6	438	**820**	1508	860	**1580**	2876	1282	**2340**	4244	1704	**3100**	5612	2127	**3860**	6980	2549	**4620**	8348
-5.58	**22**	71.6	36.7	**98**	208.4	443	**830**	1526	866	**1590**	2894	1288	**2350**	4262	1710	**3110**	5630	2132	**3870**	6998	2554	**4630**	8366
-5.00	**23**	73.4	37.2	**99**	210.2	449	**840**	1544	871	**1600**	2912	1293	**2360**	4280	1716	**3120**	5648	2138	**3880**	7016	2560	**4640**	8384
-4.44	**24**	75.2	37.8	**100**	212.0	454	**850**	1562	877	**1610**	2930	1299	**2370**	4298	1721	**3130**	5666	2143	**3890**	7034	2566	**4650**	8402
-3.89	**25**	77.0	43	**110**	230	460	**860**	1580	882	**1620**	2948	1304	**2380**	4316	1727	**3140**	5684	2149	**3900**	7052	2571	**4660**	8420
-3.33	**26**	78.8	49	**120**	248	466	**870**	1598	888	**1630**	2966	1310	**2390**	4334	1732	**3150**	5702	2154	**3910**	7070	2577	**4670**	8438
-2.78	**27**	80.6	54	**130**	266	471	**880**	1616	893	**1640**	2984	1316	**2400**	4352	1738	**3160**	5720	2160	**3920**	7088	2582	**4680**	8456
-2.22	**28**	82.4	60	**140**	284	477	**890**	1634	899	**1650**	3002	1321	**2410**	4370	1743	**3170**	5738	2166	**3930**	7106	2588	**4690**	8474
-1.67	**29**	84.2	66	**150**	302	482	**900**	1652	904	**1660**	3020	1327	**2420**	4388	1749	**3180**	5756	2171	**3940**	7124	2593	**4700**	8492
-1.11	**30**	86.0	71	**160**	320	488	**910**	1670	910	**1670**	3038	1332	**2430**	4406	1754	**3190**	5774	2177	**3950**	7142	2599	**4710**	8510
-0.56	**31**	87.8	77	**170**	338	493	**920**	1688	916	**1680**	3056	1338	**2440**	4424	1760	**3200**	5792	2182	**3960**	7160	2604	**4720**	8528
0	**32**	89.6	82	**180**	356	499	**930**	1706	921	**1690**	3074	1343	**2450**	4442	1766	**3210**	5810	2183	**3970**	7178	2610	**4730**	8546
0.56	**33**	91.4	88	**190**	374	504	**940**	1724	927	**1700**	3092	1349	**2460**	4460	1771	**3220**	5828	2193	**3980**	7196	2616	**4740**	8564
1.11	**34**	93.2	93	**200**	392	510	**950**	1742	932	**1710**	3110	1354	**2470**	4478	1777	**3230**	5846	2199	**3990**	7214	2621	**4750**	8582
1.67	**35**	95.0	99	**210**	410	516	**960**	1760	938	**1720**	3128	1360	**2480**	4496	1782	**3240**	5864	2204	**4000**	7232	2627	**4760**	8600
2.22	**36**	96.8	100	**212**	413	521	**970**	1778	943	**1730**	3146	1366	**2490**	4514	1788	**3250**	5882	2210	**4010**	7250	2632	**4770**	8618
2.78	**37**	98.6	104	**220**	428	527	**980**	1796	949	**1740**	3164	1371	**2500**	4532	1793	**3260**	5900	2216	**4020**	7268	2638	**4780**	8636
3.33	**38**	100.4	110	**230**	446	532	**990**	1814	954	**1750**	3182	1377	**2510**	4550	1799	**3270**	5918	2221	**4030**	7286	2643	**4790**	8654
3.89	**39**	102.2	116	**240**	464	538	**1000**	1832	960	**1760**	3200	1382	**2520**	4568	1804	**3280**	5936	2227	**4040**	7304	2649	**4800**	8672
4.44	**40**	104.0	121	**250**	482	543	**1010**	1850	966	**1770**	3218	1388	**2530**	4586	1810	**3290**	5954	2232	**4050**	7322	2654	**4810**	8690
5.00	**41**	105.8	127	**260**	500	549	**1020**	1868	971	**1780**	3236	1393	**2540**	4604	1816	**3300**	5972	2238	**4060**	7340	2660	**4820**	8708
5.56	**42**	107.6	132	**270**	518	554	**1030**	1886	977	**1790**	3254	1399	**2550**	4622	1821	**3310**	5990	2243	**4070**	7358	2666	**4830**	8726
6.11	**43**	109.4	138	**280**	536	560	**1040**	1904	982	**1800**	3272	1404	**2560**	4640	1827	**3320**	6008	2249	**4080**	7376	2671	**4840**	8744
6.67	**44**	111.2	143	**290**	554	566	**1050**	1922	988	**1810**	3290	1410	**2570**	4658	1832	**3330**	6026	2254	**4090**	7394	2677	**4850**	8762
7.22	**45**	113.0	149	**300**	572	571	**1060**	1940	993	**1820**	3308	1416	**2580**	4676	1838	**3340**	6044	2260	**4100**	7412	2682	**4860**	8780
7.78	**46**	114.8	154	**310**	590	577	**1070**	1958	999	**1830**	3326	1421	**2590**	4694	1843	**3350**	6062	2266	**4110**	7430	2688	**4870**	8798
8.33	**47**	116.6	160	**320**	608	582	**1080**	1976	1004	**1840**	3344	1427	**2600**	4712	1849	**3360**	6080	2271	**4120**	7448	2693	**4880**	8816
8.89	**48**	118.4	166	**330**	626	588	**1090**	1994	1010	**1850**	3362	1432	**2610**	4730	1854	**3370**	6098	2277	**4130**	7466	2699	**4890**	8834
9.44	**49**	120.2	171	**340**	644	593	**1100**	2012	1016	**1860**	3380	1438	**2620**	4748	1860	**3380**	6116	2282	**4140**	7484	2704	**4900**	8852
10.0	**50**	122.0	177	**350**	662	599	**1110**	2030	1021	**1870**	3398	1443	**2630**	4766	1866	**3390**	6134	2288	**4150**	7502	2710	**4910**	8870
10.6	**51**	123.8	182	**360**	680	604	**1120**	2048	1027	**1880**	3416	1449	**2640**	4784	1871	**3400**	6152	2293	**4160**	7520	2716	**4920**	8888
11.1	**52**	125.6	188	**370**	698	610	**1130**	2066	1032	**1890**	3434	1454	**2650**	4802	1877	**3410**	6170	2299	**4170**	7538	2721	**4930**	8906
11.7	**53**	127.4	193	**380**	716	616	**1140**	2084	1038	**1900**	3452	1460	**2660**	4820	1882	**3420**	6188	2304	**4180**	7556	2727	**4940**	8924
12.2	**54**	129.2	199	**390**	734	621	**1150**	2102	1043	**1910**	3470	1466	**2670**	4838	1888	**3430**	6206	2310	**4190**	7574	2732	**4950**	8942
12.8	**55**	131.0	204	**400**	752	627	**1160**	2120	1049	**1920**	3488	1471	**2680**	4856	1893	**3440**	6224	2316	**4200**	7592	2738	**4960**	8960
13.3	**56**	132.8	210	**410**	770	632	**1170**	2138	1054	**1930**	3506	1477	**2690**	4874	1899	**3450**	6242	2321	**4210**	7610	2742	**4970**	8978
13.9	**57**	134.6	216	**420**	788	638	**1180**	2156	1060	**1940**	3524	1482	**2700**	4892	1904	**3460**	6260	2327	**4220**	7628	2749	**4980**	8996
14.4	**58**	136.4	221	**430**	806	643	**1190**	2174	1066	**1950**	3542	1488	**2710**	4910	1910	**3470**	6278	2332	**4230**	7646	2754	**4990**	9014
15.0	**59**	138.2	227	**440**	824	649	**1200**	2192	1071	**1960**	3560	1493	**2720**	4928	1916	**3480**	6296	2338	**4240**	7664	2760	**5000**	9032
15.6	**60**	140.0	232	**450**	842	654	**1210**	2210	1077	**1970**	3578	1499	**2730**	4946	1921	**3490**	6314	2343	**4250**	7682			
16.1	**61**	141.8	238	**460**	860	660	**1220**	2228	1082	**1980**	3596	1504	**2740**	4964	1927	**3500**	6332	2349	**4260**	7700			
16.7	**62**	143.6	243	**470**	878	666	**1230**	2246	1088	**1990**	3614	1510	**2750**	4982	1932	**3510**	6350	2354	**4270**	7718			
17.2	**63**	145.4	249	**480**	896	671	**1240**	2264	1093	**2000**	3632	1516	**2760**	5000	1938	**3520**	6368	2360	**4280**	7736			
17.8	**64**	147.2	254	**490**	914	677	**1250**	2282	1099	**2010**	3650	1521	**2770**	5018	1943	**3530**	6386	2366	**4290**	7754			
18.3	**65**	149.0	260	**500**	932	682	**1260**	2300	1104	**2020**	3668	1527	**2780**	5036	1949	**3540**	6404	2371	**4300**	7772			
18.9	**66**	150.8	266	**510**	950	688	**1270**	2318	1110	**2030**	3686	1532	**2790**	5054	1954	**3550**	6422	2377	**4310**	7790			
19.4	**67**	152.6	271	**520**	968	693	**1280**	2336	1116	**2040**	3704	1538	**2800**	5072	1960	**3560**	6440	2382	**4320**	7808			
20.0	**68**	154.4	277	**530**	986	699	**1290**	2354	1121	**2050**	3722	1543	**2810**	5090	1966	**3570**	6458	2388	**4330**	7826			
20.6	**69**	156.2	282	**540**	1004	704	**1300**	2372	1127	**2060**	3740	1549	**2820**	5108	1971	**3580**	6476	2393	**4340**	7844			
21.1	**70**	158.0	288	**550**	1022	710	**1310**	2390	1132	**2070**	3758	1554	**2830**	5126	1977	**3590**	6494	2399	**4350**	7862			
21.7	**71**	159.8	293	**560**	1040	716	**1320**	2408	1138	**2080**	3776	1560	**2840**	5144	1982	**3600**	6512	2404	**4360**	7880			
22.2	**72**	161.6	299	**570**	1058	721	**1330**	2426	1143	**2090**	3794	1566	**2850**	5162	1988	**3610**	6530	2410	**4370**	7898			
22.8	**73**	163.4	304	**580**	1076	727	**1340**	2444	1149	**2100**	3812	1571	**2860**	5180	1993	**3620**	6558	2416	**4380**	7916			
23.3	**74**	165.2	310	**590**	1094	732	**1350**	2462	1154	**2110**	3830	1577	**2870**	5198	1999	**3630**	6566	2421	**4390**	7934			
23.9	**75**	167.0	316	**600**	1112	738	**1360**	2480	1160	**2120**	3848	1582	**2880**	5216	2004	**3640**	6584	2427	**4400**	7952			

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Ultrasonic Comparison Chart

ULTRASONIC COMPARISON CHART		RING RACKS					BASKETS						
		851-4107	851-4106	851-4105	851-2050*	851-2052*	851-5101	851-5099	851-5147	851-5121	851-5126	851-5131	851-5105
ITEM #	DESCRIPTION				8 double sided hooks	12 double sided hooks							
851-4906	Digital 2.5 Quart	1	no	no	no	no	no	1	no	no	no	no	1
851-5070, -5071	Quantrex 2 Quart	1	no	no	1	1 remove 2 hooks	no	1	no	no	no	no	1
851-5072, -5073	Quantrex 3 3/8 Quart	1	no	1 diagonally	1	1 remove 2 hooks	no	1	no	1	no	no	2
851-5074, -5075	Quantrex 6 Quart	2	2	1 diagonally	2	1	2	2	no	no	1	no	2
851-5094, -5095	Quantrex 14.5 Quart	no	2	4	3	3	no	no	2	2	1	1	4
851-4203	Elma 3 Quart	1	no	1	1	1 remove 2 hooks	no	no	no	no	no	no	1
851-1000	BestBuilt 2 Quart	1	no	no	1	1 remove 6 hooks	no	1	no	no	no	no	1
851-1002	BestBuilt 3.5 Quart	1	1	1	1	1 remove 2 hooks	no	1	no	1	no	no	1
851-1004	BestBuilt 6 Quart	2	no	1 diagonally	2	1	2	2	no	no	no	no	1
851-1006	BestBuilt 10 Quart	no	2	4	3	1 remove 2 hooks	no	no	2	2	1	1	2
851-1008	BestBuilt 22 Quart	no	no	no	no	4	no	no	no	no	1	1	6
851-5046	Sweep 3 Quart	1	no	1 diagonally	1	1 remove 2 hooks	1	1	1	1	no	no	1

Sonic Wave and Elmasonic come with baskets. No ring racks we have fit them.
*Depth of hook from bottom of rod to bottom of hook: 2½" Tank must be deep enough

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Paul H. Gesswein & Company Inc., Home Office, Bridgeport, Connecticut, USA

An Important Note About Our Products

All products sold by Gesswein are intended for use by professional tradespeople, not the general public. Additional documentation may be requested before shipment can be made. Those not knowledgeable in the usage of hazardous equipment and materials should not purchase these products since noncompliance with safety regulations can be dangerous to health and property.

Material Safety Data Sheets

Material Safety Data Sheets (MSDSs) are available upon request for all products that contain hazardous ingredients. MSDSs contain important information such as safety recommendations and emergency procedures. The fastest way to access MSDS information is through our Web Site, www.gesswein.com. Click on the Tech/MSDS button found on our home page, select MSDS and search alphabetically for the product. You can also call us Monday–Friday, 9am–5pm EST at 800-544-2043 or 203-366-5400.

Eye Protection

Goggles or safety glasses with shields are recommended when using abrasive products for polishing, grinding or cutting.

Hand Protection

Gloves are recommended but not required when using most abrasive products. Follow the manufacturer's guidelines.

Hearing Protection

Earmuffs or earplugs may be required when using some abrasive products. See OSHA 29 CFR 1910.95 for statutory noise limits and requirements.

Respiratory Protection

Consider the abrasive product and material to be ground, then select and use equipment in accordance with OSHA 29 CFR 1910.134 in the USA or CSA Z94.4-M1982 in Canada.

Engineering Controls

Provide process enclosure or local ventilation to keep dust below applicable limits and to meet hearing protection requirements.

Operating Practices

- Safe operating practices must be a part of every operation.
- Be sure to read all safety information provided with applicable products.
- Always check products for damage before use.
- Before mounting wheels, use a tachometer to measure spindle speed.
- Ensure that the mounting flanges, backplate or adapter supplied by the machine manufacturer are used and kept in good condition. ANSI Safety Requirements B7.1 provide wheel mounting requirements. Check mounting flanges for equal, correct diameter, and use blotters when supplied.
- Always mount, true and dress wheels in conformance with the guidelines published in ANSI Safety Requirements B7.1.
- Never exceed the maximum operating speed for any product.
- Avoid dropping or bumping wheels.
- When not using wheels, store in their original packaging materials to prevent chips and cracks and to allow easy wheel identification.

Vibrating and Reciprocating Tools

Prolonged use of vibrating or reciprocating tools may result in vibration-induced circulation problems in the hands. Always follow safe operating procedures. The use of hand protection (i.e., insulated gloves) and taking frequent breaks can help minimize but not guarantee against injury. Operating these types of tools in cold weather or with a tight grip will reduce the period of operation before risking potential injury. Individuals with a tendency to suffer from poor circulation, frequently cold fingers or itchy hands should closely monitor the condition of their hands. If symptoms appear, seek medical advice immediately.

Icons Usage

- Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.
- UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.
- Shipment by truck is required.
- Indicates a minimum order is necessary; in this case orders would be in multiples of 6.

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Shipping Policy

Shipping and handling charges are all F.O.B. shipping point. A small handling fee is presently charged on all original orders. The method of shipment will be left to our discretion unless you request a specific method.

Truck Shipments

(All items indicated with this icon will ship via truck.)

All shipping and handling charges are F.O.B. shipping point. If you request a specific carrier, we will be happy to send your shipment collect via that carrier. Otherwise, we have negotiated lower rates with select carriers and will pass savings on to you. Orders are shipped freight prepaid, and the freight appears on your invoice. If the trucker will have to off-load your shipment to a smaller delivery truck (e.g., if you have limited access to your door because of a narrow alleyway), there may be a delay in delivery. Please make us aware of any potential problems so we can take steps to minimize delays.

Truck Shipment Charges – in Addition to the Freight Charge

(subject to change without notice)

The following services can generate extra charges above the normal trucking rates:

- Residential delivery (minimum $60.00)
- Liftgate service (minimum $50.00 to $80.00 based on carrier)
- Inside delivery. Inside delivery is simply placing the shipment inside your door. If you require further assistance, it can be arranged at a premium rate. (minimum $100.00)
- Hazardous goods surcharge (minimum $30.00 per shipment)
- Redelivery due to customer unavailability (minimum $100.00)
- Any changes to shipment after pickup from F.O.B. point (minimum $100.00)
- Limited access charge (minimum $60.00 based on new info)

US Postal Service® (USPS) Shipments

All postage and handling charges are F.O.B. shipping point. Orders are shipped postage prepaid, and the postage appears on your invoice. No hazardous goods or liquids can be shipped by US Mail. Please be aware that USPS shipments are not trackable. No COD Shipments.

FedEx® Shipments

No hazardous items may be shipped via FedEx.

FedEx® Charges – in Addition to the Freight Charge

(subject to change)

- $12.50 charge for Saturday delivery
- $10.00 charge for any changes to shipments after pickup

FedEx offers a wide range of guaranteed delivery options to fit your needs. However, not all areas have every service available. Ask your Inside Sales representative to confirm your ZIP code for a specific time-of-day delivery commitment:

FedEx First Overnight® – Delivery by 8:30am.

FedEx Priority Overnight® – Delivery by 10:30am.

FedEx Standard Overnight® – Delivery by 3:00pm.

FedEx 2 Day® – Delivery by the second business day.

FedEx Express Saver® – Delivery within three business days.

FedEx Ground – Delivery to continental U.S. within one to five business days and three to seven days for Alaska and Hawaii.

UPS® Shipments

All shipping and handling charges are F.O.B. shipping point. Orders are shipped freight prepaid, and the freight appears on your invoice along with your UPS tracking number.

UPS Ground service is offered for all 50 states plus Puerto Rico. However Since Alaska, Hawaii and Puerto Rico Ground service actually travels via aircraft, certain items are prohibited from shipment to these areas.

UPS® Charges – in Addition to the Freight Charge

(as of January 2013–subject to change without notice)

- $15.00 charge for Saturday delivery.
- $27.50 charge for each hazardous carton via ground.
- $11.00 charge for any changes to ground shipments after pickup
- $10.00 charge for any changes to air shipments after pickup.
- $8.50 special handling charge for items in drums over 70 lbs.
- $6.00 remote area surcharge for parts of Hawaii
- $15.00 remote area surcharge for parts of Alaska

UPS® also charges surcharges for residential deliveries for packages that are considered oversized. These vary based on the ZIP code, length of package and method of shipment.

UPS offers a wide range of guaranteed delivery options to fit your needs. However, not all areas have every service available. Check www.ups.com or ask your Inside Sales representative to confirm your ZIP code™ for a specific time-of-day delivery commitment.

UPS Express Critical® – Next-flight-out service can be same-day if conditions are met.

UPS Next Day Air Early A.M.® – Delivery by 8:00, 8:30, 9:00 or 10:00am depending on location. Some locations not available

UPS Next Day Air® (aka UPS RED) – Delivery to every address coast-to-coast and Puerto Rico by 10:30am, noon or end of day depending on location. Alaska and Hawaii may require additional days.

UPS Next Day Air Saver® – Delivery to specific destinations throughout continental U.S. by 3:00pm, 4:00pm or end of day.

UPS 2nd Day Air A.M.® – Morning delivery on the second business day to most metro-commercial addresses throughout U.S., depending on location.

UPS 2nd Day Air® (aka UPS BLUE) – Delivery by the second business day to every address coast-to-coast and Puerto Rico.

UPS 3-Day Select® (aka UPS ORANGE) – Delivery within three business days throughout 48 contiguous states.

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Shipping Damage

Orders always leave our facility in excellent condition. Our shipping terms are F.O.B. shipping point, which means you assume ownership the moment your order is picked up by the carrier. Therefore, in the unfortunate circumstance that you find any damage to your shipment, **you as the owner must file a claim with the carrier.** Gesswein will be happy to assist you in any way possible, but you must file the claim yourself.

- If you see any obvious outside damage to a shipping carton, you must write "Damaged" on the carrier's delivery sheet.
- Save all cartons and packing materials. Do not return shipment.
- If, after initial inspection of the shipment, you discover concealed damage, you must promptly contact the carrier for inspection and **save all shipping materials.**
- Gesswein will not assume responsibility for any losses that occur due to your failure to follow these steps.

Truck Shipments

All carriers are liable for any damages that occur during transit. Please be sure all cartons that are listed on your freight bill have actually been delivered. If you find a shortage or suspect a carton might have been damaged during transit, you or the trucker must make a notation of this on the delivery receipt. Do not sign the receipt without a notation. **Retain all cartons and packing materials until after the inspection is completed.**

If shortages or damages are discovered after the packages are opened (concealed loss or damage), notify the carrier within 15 days and request an inspection. **Also retain all cartons and packing materials** until after the inspection is completed. Gesswein will not assume responsibility for any losses that occur due to your failure to follow all of these steps.

UPS® Shipments

United Parcel Service is liable for any loss or damage that occurs during transit. If a shipment is not delivered to you in proper order, make a notation on the delivery receipt. Contact your local UPS® office within 10 days so that we can submit a claim on your behalf and arrange for a replacement. **Save all cartons and packing materials** until after the inspection is completed.

If shortages or damages are discovered after the packages are opened (concealed loss or damage), notify the carrier within 15 days and request an inspection. **Also save all cartons and packing materials** until after the inspection is completed. Gesswein will not assume responsibility for any losses that occur due to your failure to follow these steps.

FedEx® Shipments

FedEx® is liable for losses or damages that occur during transit. If the shipping cartons are obviously damaged, you must write this on the driver's copy of the delivery receipt. You have 10 days to inspect for hidden damage, so don't delay. **In either case, all cartons and packing materials have to be available for inspection.** Please keep in mind that FedEx® requires written notification of possible claims within 10 days of shipment. **Gesswein will not assume responsibility for any losses that occur due to your failure to follow all of these steps. (Hazardous items cannot be shipped by air.)**

Shipping Hazardous Materials

When shipping of hazardous materials is prohibited by specific means, we will ship by the best method possible. UPS® Ground and most trucking firms charge an additional fee for the transport of hazardous materials, including but not limited to acids and corrosive materials. UPS® limits the quantity and type of hazardous items that may be shipped in one carton. Therefore, multiple cartons may have to be used for your order. UPS® assesses their hazardous surcharges per carton. Most trucking firms charge per shipment. No hazardous items may be shipped via FedEx® or USPS®. **Hazardous items can not be shipped by air.**

Hazardous goods can only be shipped by those companies authorized to do so. Therefore, a return of hazardous items to Gesswein can be made only if your company is an authorized shipper of such goods. Call tags and pickups cannot be issued.

The following icons are used in this catalog to denote hazardous materials and how they can be shipped.

Ⓗ Although no hazardous shipping surcharge applies, these items can only ship via UPS® Ground, no air, FedEx® or US Mail possible. Cannot ship to Alaska, Hawaii or Puerto Rico.

Ⓢ UPS® hazardous shipping surcharge applies. ($27.50 at time of writing). Ships via UPS® Ground only, no air, FedEx®, or US Mail shipments. Cannot ship to Alaska, Hawaii or Puerto Rico.*

* Subject to change.

Material Safety Data Sheets

Material Safety Data Sheets are available at your request for all products that contain hazardous ingredients. MSDS contain important user information such as safety recommendations and emergency procedures.

The fastest way to access our MSDS information is via our Web Site, www.gesswein.com. You can also call us Monday through Friday from 9am–5pm EST at 203-366-5400.

Important Warning – Please Read!

All products sold by Gesswein are restricted for use by professional tradespeople only. Additional documentation may be required before shipment can be made. Our products are not intended for use by the general public. Those not knowledgeable in the usage of hazardous materials and equipment should not purchase these products since noncompliance with safety regulations can be dangerous to health and property.

All the data in this catalog is true to our knowledge at the time of writing but subject to change without notice to provide best quality and selection.

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Worldwide Service

Our international sales staff are ready and waiting to serve you: they routinely schedule shipments to customers all over the world. Coordinating their efforts with expert knowledge of customs regulations, they ensure orders are expedited and delivered on time.

Our service goes well beyond the point of sale. We pack shipments with care, arrange for letters of credit, prepare all necessary documentation and select the most affordable shipping method.

Returns:

If for any reason you wish to return merchandise, simply refer to your packing slip. If you require assistance, contact our Customer Service associates at 1-800-243-4466, and they will be happy to help. Please have your packing slip or invoice handy. All returns must be shipped prepaid and be in unused and resellable condition. Please make sure you carefully package the merchandise to avoid damage during shipment. We do not accept collect nor C.O.D. shipments. Any items we authorize to be returned at our expense should be via the carrier that we specify.

Return Restrictions:

- We reserve the right to charge a re-stocking fee for cataloged products returned after 30 days.
- Nonstock items ordered specially for you are subject to a re-stocking charge.
- Items made to your specifications are not returnable.
- Returns will be credited in the same manner as paid.
- **Hazardous items can be returned only if you are an authorized hazardous goods shipper.**

Gesswein Represents:

Quality and Value – We offer distinguished products of the best quality as well as affordable products of great value.

Service – A philosophy and way of life. It cannot be attributed to a single department, program or policy, but rather to all the things we do to ensure customers are satisfied. Service means giving customers more than they expect, responding to their needs immediately and shipping their orders promptly.

Honesty – To our customers, ourselves and each other. We are in the business of earning and safeguarding trust, so we must always act honorably.

Respect – We demand respect for our customers, each other and the company. Mutual respect leads to understanding, which in turn leads to efficiency.

Teamwork – Our people are totally committed to working together as a team to reach our common goals.

Investment – We invest resources back into the company in order to keep inventory at optimal levels, to fund a technical support staff and to educate our people so they can better serve our customers.

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