

# Gesswein®

The Right Tools

Since 1914

## Metalworking Tools, Equipment & Supplies



*See New 2012 Products  
& Great Pricing!*

Solutions to Unique & Common Challenges

[www.gesswein.com](http://www.gesswein.com)

## ***For Our Valued Customers***

The Paul H. Gesswein Company is proud to bring to you our latest brochure featuring exciting new products for finishing and deburring:

- Ultramax MF multi-function ultrasonic polisher
- Dynabrade air powered tools
- Expanded line of Ushio air tools
- Shaviv deburring tools
- Our popular GMX & G-Flex cotton fiber mounted points in new shapes & sizes
- New "Hybrid" Shaped Finishing Stones
- Portable Dino-Lite analog and digital microscope systems for inspection, measurement, and documentation

Be sure to visit [www.gesswein.com](http://www.gesswein.com) for all of the latest products, specials, and technical information. Our "Quick Order" form on the homepage makes ordering fast!

Please do not hesitate to give us a phone call to speak with one of our technical specialists should you have any questions: **1-800-544-2043**.

Thank you for your business and consideration.

**Our New and Larger Headquarters – 201 Hancock Avenue, Bridgeport, CT 06605**



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## ULTRAMAX® MF (Multi-Function)

### Polishing & Deburring System

#### Reduce finishing time dramatically!

The first multi-function system for polishing, deburring, and metal removal.

**ULTRAMAX MF** is supplied with an ultrasonic handpiece, and will power optional mechanical rotary and reciprocating handpieces. Has receptacles for both brush-type and brushless handpieces — the full range of Gesswein Power Hand Handpieces (p.10-13).

**ULTRAMAX MF** unit polishes slots, ribs, and intricate details with ease. Short stroke and fast reciprocation provide total control over the most demanding polishing tasks. Special control functions make any finish possible, letting you polish right up to a wall or finish to an edge.

**ULTRAMAX MF** is unaffected by metal hardness. Even the toughest metals, including tungsten carbide and titanium, are no match. Everything from milled surfaces to rough EDM surfaces can be polished to a mirror finish. Use all grades of finishing stones, sintered, resin, and plated diamond tools, as well as ceramic stones, and metallic & nonmetallic lapping tools with diamond compounds.

The **Multi-Function ULTRAMAX MF** gives you the versatility of ultrasonic and mechanical polishing in one package. The MF utilizes a high-efficiency microprocessor to deliver power to ultrasonic, brushless DC, and brush-type DC handpieces. The included ultrasonic handpiece provides 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 optional brushless handpiece provides up to 50,000rpm of high speed and high torque power for rotary operations.

The **ULTRAMAX MF** has a digital readout for power level reference on the DC outputs, and also a multi-color load indicator. Also featured is a forward/reverse switch for DC motor operation.



#### ULTRAMAX MF Set Includes:

- Power Pack
- 36 Watt Ultrasonic handpiece
- Tool box
- Handpiece rest
- Tool changing wrenches
- 1mm & 3mm flat clamp tool holders
- 3mm round tool holder
- On/off foot switch

#### Specifications:

Operating Frequency:	18-26kHz
Frequency Adjustment:	Automatic feedback
Stroke Amplitude:	3-40 microns
Max. Power Consumption:	300 Watts
Overload Protection:	Yes
Load Indicator:	5 level LED lamps
Max. Output Power:	36W (with standard handpiece) 45W (with optional heavy duty handpiece)
Output Adjustment:	Continuously variable
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.

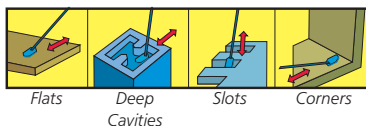
## Optional Handpieces

### Reciprocating Profiler Z-6X



See pages 10-13 for full range

Z-6X Recipro Applications (back and forth)



### Brushless Rotary Handpiece 50,000rpm



Description	Item#	Each
ULTRAMAX MF System	500-0220	\$2,495.00

#### Optional Handpieces

Description	Item#	Each
45 Watt Ultrasonic Heavy Duty Handpiece	500-0226	\$550.00
Z-6X Reciprocating Profiler (shown left)	510-2160	995.00
50,000rpm Brushless Rotary Handpiece (shown left)	500-0224	495.00
Variable Speed Foot Rheostat for Mechanical Handpieces	500-0221	60.00

See pages 10-13 for additional mechanical handpieces.



## ULTRAMAX® DF (Dual-Function)

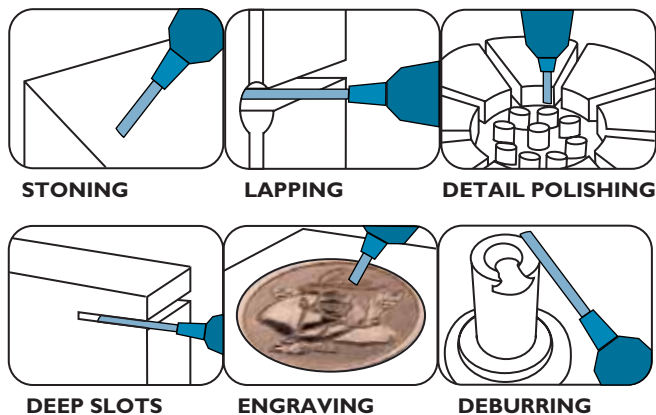
### Ultrasonic/Mechanical Polisher

This dual-function unit gives you the versatility of both ultrasonic and mechanical polishing. Supplied with the lightweight, vibration-free UF-9700 ultrasonic handpiece and can use our full line of Power Hand 2X mechanical handpieces (see p.10-13). The **ULTRAMAX DF** mechanical handpiece function incorporates speed control, forward/reverse touch pads and motor stop for complete armature protection.

Vibration frequency: 20–30kHz. Stroke length: 4–40 microns. Max. output power: 45W. Electrical: 115V or 230V, 1 Ph, 50/60Hz. Controller measures 6<sup>3</sup>/<sub>8</sub>"W x 11"D x 8<sup>1</sup>/<sub>4</sub>"H. Ultrasonic handpiece measures 5"L x 1<sup>3</sup>/<sub>2</sub>" D.

Description	Electrical	Item#	Each
ULTRAMAX DF	115V	<b>500-0210</b>	<b>\$5,395.00</b>
	230V	<b>500-0211</b>	<b>5,395.00</b>

*The **ULTRAMAX DF** includes: controller, UF-9700 handpiece, 6/4mm tool adapter, handpiece cradle rest and tool box with a 30-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.*



**See [www.gesswein.com](http://www.gesswein.com) for a full range of accessories**

## ULTRAMAX® UM-1200

### Ultrasonic Polisher

The affordable and functional ultrasonic polisher (no mechanical function) for polishing with diamond tools and ceramic stones.

Includes controller, UM-1200 handpiece with 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.

Vibration frequency: 18–25kHz. Stroke length: 10–35 microns. Max. output power: 36W. Electrical: 90–240V, 50/60Hz. Controller measures 7<sup>1</sup>/<sub>2</sub>"W x 5<sup>1</sup>/<sub>2</sub>"D x 3<sup>1</sup>/<sub>2</sub>"H. Handpiece measures 5"L x 1<sup>3</sup>/<sub>16</sub>" D.

Description	Electrical	Item#	Each
ULTRAMAX UM-1200	90–240V	<b>500-1200</b>	<b>\$1,495.00</b>



## Super Ceramic Stones



- Super Ceramic Stones are strong yet incredibly flexible! Made of long ceramic fibers that will not break or dull, even when used under the most strenuous conditions. Can be dressed to any shape including a fine point, and the tool will still hold its shape. Put an end to constant stone replacement!
- Produce consistent and uniform surface finishes on stainless steel, copper, aluminum, silicon, alloys, magnetic materials and plastics. Polish EDM surfaces in half the time!
- Dress with Super Dresser #351-0300 and use with our ULTRAMAX polishing systems, reciprocators, or by hand.
- Color-coded for easy grit identification.
- Flat available in 100mm and 40mm lengths. Round available in  $\frac{3}{32}$ " ,  $\frac{1}{8}$ " , 3mm x 50mm. See [www.gesswein.com](http://www.gesswein.com).
- Grits from 120 to 1200.

Dimensions (mm)	Emerald 120 Grit Item#	Gold 180 Grit Item#	Lt. Brown 300 Grit Item#	Orange 400 Grit Item#	Brown 600 Grit Item#	Blue 800 Grit Item#	White 1000 Grit Item#	Red 1200 Grit Item#	Each Prices*	
									1-4	5+
<b>FLAT</b>										
0.5 x 1 x 100	351-0325	351-0326	351-0327	351-0328	351-0329	351-0330	351-0331	351-0332	\$9.95	\$8.96
0.5 x 4 x 100	351-0301	351-0209	351-0204	351-0206	351-0201	351-0226	351-0227	351-0228	20.90	18.81
0.5 x 6 x 100	351-0302	351-0003	351-0207	351-0208	351-0202	351-0229	351-0230	351-0231	31.45	28.31
0.5 x 10 x 100	351-0303	351-0216	351-0221	351-0222	351-0203	351-0232	351-0233	351-0234	41.25	37.13
0.8 x 4 x 100	351-0304	351-0219	351-0235	351-0236	351-0004	351-0005	351-0010	351-0015	20.90	18.81
0.8 x 6 x 100	351-0305	351-0018	351-0237	351-0238	351-0019	351-0020	351-0025	351-0030	31.45	28.31
0.8 x 10 x 100	351-0306	351-0223	351-0239	351-0240	351-0031	351-0032	351-0033	351-0034	41.25	37.13
1 x 1 x 100	351-0333	351-0334	351-0335	351-0336	351-0337	351-0338	351-0339	351-0340	9.95	8.96
1 x 2 x 100	351-0307	351-0274	351-0275	351-0276	351-0277	351-0278	351-0279	351-0280	12.00	10.80
1 x 4 x 100	351-0308 <sup>a</sup>	351-0224 <sup>a</sup>	351-0241 <sup>a</sup>	351-0242	351-0036	351-0035 <sup>a</sup>	351-0040	351-0045 <sup>a</sup>	20.90	18.81
1 x 6 x 100	351-0309	351-0048	351-0243 <sup>a</sup>	351-0244 <sup>a</sup>	351-0049 <sup>a</sup>	351-0050 <sup>a</sup>	351-0055 <sup>a</sup>	351-0060	31.45	28.31
1 x 10 x 100	351-0310	351-0266	351-0245	351-0246	351-0079	351-0080	351-0085	351-0090	41.25	37.13
1.5 x 2.5 x 100	351-0097	351-0098	351-0247	351-0248	351-0091	351-0092	351-0093	351-0094	20.90	18.81
1.5 x 4 x 100	351-0311	351-0267	351-0249	351-0250	351-0109	351-0110	351-0115	351-0120	31.25	28.13
1.5 x 6 x 100	351-0312	351-0268	351-0251	351-0252	351-0124	351-0125	351-0130	351-0135	47.30	42.57
1.5 x 10 x 100	351-0313	351-0269	351-0253	351-0254	351-0136	351-0137	351-0138	351-0139	62.45	56.21
2 x 4 x 100	351-0314	351-0161	351-0255	351-0256	351-0154	351-0155	351-0160	351-0165	41.25	37.13
2 x 6 x 100	351-0315	351-0162	351-0257	351-0258	351-0169	351-0170	351-0175	351-0180	62.90	56.61
3 x 6 x 100	—	—	—	—	—	—	351-0190	—	45.00	40.50
2 x 10 x 100	351-0316	351-0163	351-0259	351-0260	351-0181	351-0182	351-0183	351-0184	82.50	74.25

### ROUND

3 x 50mm	351-0317 <sup>b</sup>	351-0157 <sup>b</sup>	351-0196 <sup>b</sup>	351-0197	351-0198 <sup>b</sup>	351-0200 <sup>b</sup>	351-0205	351-0210 <sup>b</sup>	\$20.45	\$18.41
$\frac{3}{32}$ " x 2"	351-0318	351-0156	351-0261	351-0262	351-0263	351-0264	351-0265	351-0159	18.50	16.65
$\frac{1}{8}$ " x 2"	351-0319	351-0158	351-0217	351-0218	351-0211	351-0212	351-0213	351-0214	25.65	23.09

### SQUARE

0.5 x 0.5 x 50mm	—	351-0341 <sup>c</sup>	—	351-0342 <sup>c</sup>	—	351-0343 <sup>c</sup>	—	351-0344 <sup>c</sup>	\$6.15	\$5.54
0.9 x 0.9 x 50mm	—	351-0346 <sup>d</sup>	—	351-0347 <sup>d</sup>	—	351-0348 <sup>d</sup>	—	351-0349 <sup>d</sup>	6.15	5.54

\*Quantity discount for orders of one item# only, not assorted.



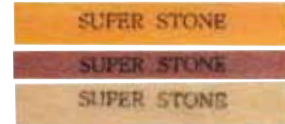
#### Square Sets – 4 stones + holder

c. 0.5mm	351-0351	\$27.95
d. 0.9mm	351-0352	27.95

a. Flat Set 10 stones + 2 holders	351-0320	\$199.00
b. Round Set 5 stones + holder	351-0322	79.00

## SUPER® Pre-Cut Ceramic Stones

Pre-cut for use with ULTRAMAX Ultrasonic Polishers



### FLAT

Dimensions (mm)	Emerald	Gold	Lt. Brown	Orange	Brown	Each Prices*		Blue	White	Red	Each Prices*	
	120 Grit Item#	180 Grit Item#	300 Grit Item#	400 Grit Item#	600 Grit Item#	1-4	5+	800 Grit Item#	1000 Grit Item#	1200 Grit Item#	1-4	5+
0.8 x 4 x 40	<b>508-3550</b>	<b>508-3438</b>	<b>508-3448</b>	<b>508-3449</b>	<b>508-3450</b>	<b>\$14.75</b>	<b>\$13.28</b>	<b>508-3451</b>	<b>508-3452</b>	<b>508-3453</b>	<b>\$12.50</b>	<b>\$11.25</b>
0.8 x 6 x 40	<b>508-3551</b>	<b>508-3439</b>	<b>508-3447</b>	<b>508-3446</b>	<b>508-3454</b>	<b>21.90</b>	<b>19.71</b>	<b>508-3455</b>	<b>508-3456</b>	<b>508-3457</b>	<b>18.75</b>	<b>16.88</b>
1 x 4 x 40	<b>508-3552</b>	<b>508-3440</b>	<b>508-3458</b>	<b>508-3459</b>	<b>508-3460</b>	<b>12.90</b>	<b>11.61</b>	<b>508-3461</b>	<b>508-3462</b>	<b>508-3463</b>	<b>11.25</b>	<b>10.13</b>
1 x 6 x 40	<b>508-3553</b>	<b>508-3441</b>	<b>508-3492</b>	<b>508-3494</b>	<b>508-3464</b>	<b>18.70</b>	<b>16.83</b>	<b>508-3465</b>	<b>508-3466</b>	<b>508-3467</b>	<b>16.10</b>	<b>14.49</b>
2 x 6 x 40	<b>508-3554</b>	<b>508-3442</b>	<b>508-3468</b>	<b>508-3469</b>	<b>508-3470</b>	<b>28.35</b>	<b>25.52</b>	<b>508-3471</b>	<b>508-3472</b>	<b>508-3473</b>	<b>24.65</b>	<b>22.19</b>
2 x 12 x 40	<b>508-3555</b>	<b>508-3443</b>	<b>508-3478</b>	<b>508-3479</b>	<b>508-3474</b>	<b>52.90</b>	<b>47.61</b>	<b>508-3475</b>	<b>508-3476</b>	<b>508-3477</b>	<b>45.85</b>	<b>41.27</b>
<b>ROUND</b>												
2.35 dia. x 30	<b>508-3556</b>	<b>508-3444</b>	<b>508-3493</b>	<b>508-3489</b>	<b>508-3480</b>	<b>\$19.95</b>	<b>\$17.96</b>	<b>508-3481</b>	<b>508-3482</b>	<b>508-3483</b>	<b>\$17.00</b>	<b>\$15.30</b>
3 dia. x 30	<b>508-3557</b>	<b>508-3445</b>	<b>508-3490</b>	<b>508-3491</b>	<b>508-3485</b>	<b>19.95</b>	<b>17.96</b>	<b>508-3486</b>	<b>508-3487</b>	<b>508-3488</b>	<b>17.00</b>	<b>15.30</b>

\*Quantity discount for orders of one item# only, not assorted.



### Mini Ceramic Stones

These tiny tools are the perfect solution for deburring or polishing the smallest, most inaccessible areas. A stone as small as 0.5mm square is available! Use in the Ultramax or by hand with our comfortable to hold stone holders. These holders will ensure that the handling is easy and the accomplished work completely accurate.

Size (mm)	Gold (180 grit) Item#	Orange (400 grit) Item#	Blue (800 grit) Item#	Red (1200 grit) Item#	Each
0.5 x 0.5 x 50	<b>351-0341</b>	<b>351-0342</b>	<b>351-0343</b>	<b>351-0344</b>	<b>\$6.15</b>
0.5 x 1 x 100	<b>351-0326</b>	<b>351-0328</b>	<b>351-0330</b>	<b>351-0332</b>	<b>9.95</b>
0.9 x 0.9 x 50	<b>351-0346</b>	<b>357-0347</b>	<b>351-0348</b>	<b>351-0349</b>	<b>6.15</b>
1 x 1 x 100	<b>351-0334</b>	<b>357-0336</b>	<b>351-0338</b>	<b>351-0340</b>	<b>9.95</b>



0.5mm

0.9mm

1mm

### Mini Ceramic Stone Holders

For hand work with our Mini Ceramic Stones. Available in 3 styles to fit stone sizes:

- 0.5mm round or square stones
- 0.9mm round or square stones
- 1mm square or flat stones

All are hard durable plastic and measure approximately 5-1/2" long.

Stone Size	Item#	Each
0.5mm	<b>351-0345</b>	<b>\$12.75</b>
0.9mm	<b>351-0350</b>	<b>12.75</b>
1mm	<b>351-0291</b>	<b>7.90</b>

## 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
1 Pint (wide-mouth glass container)	<b>800-0100</b>	<b>\$13.75</b>
1 Gallon	<b>800-0110</b>	<b>44.95</b>



## Gesswein® 12-Piece Finishing Stone Sampler Sets

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, get our Discovery Stone Set (page 35), which includes all eight of the sets described below. Each Finishing Stone Set serves as a perfect introduction to our popular stone lines.

Each 12-piece set includes 4 grits of the 3 most popular sizes:

- 1/4" x 1/8" x 6"
- 1/2" x 1/8" x 6"
- 1/2" x 1/4" x 6"



Stone Sets: 12 Stones per Set								
	120 Grit	180 Grit	220 Grit	320 Grit	400 Grit	600 Grit	800 Grit	1200 Grit
A. Diemaker			•	•	•	•		
B. EDM	•	•		•	•			
C. EDM Blue	•	•		•	•			
D. Oil-Treated			•	•	•	•		
E. Moldmaker			•	•	•	•		
F. Moldmaker Plus			•		•		•	•
G. GP			•	•	•	•		
H. Premium White			•	•	•	•		

Description	Item#	EACH
A. Diemaker Stone Set	405-2060	\$37.00
B. EDM Stone Set	405-2030	35.00
C. EDM Blue Stone Set	405-2040	35.00
D. Oil-Treated Stone Set	405-2090	41.00
E. Moldmaker Stone Set	405-2065	39.00
F. Moldmaker Plus Stone Set	405-2020	49.00
G. GP Stone Set	405-2095	33.00
H. Premium White Stone Set	405-2010	37.00

**For  
Stoning Oil,  
See Page 7**

**Sets  
of 12**



## Hybrid Stones - 1/4" x 1/4" x 6"

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, one each of the following styles in grits 220, 320, 400, 600.

- **Diemaker**, Medium Hard Aluminum Oxide
- **EDM**, Hard Premium Aluminum Oxide
- **Oil-Treated**, Hard, White Aluminum Oxide
- **Moldmaker**, Soft, Silicon Carbide
- **GP**, White Aluminum Oxide



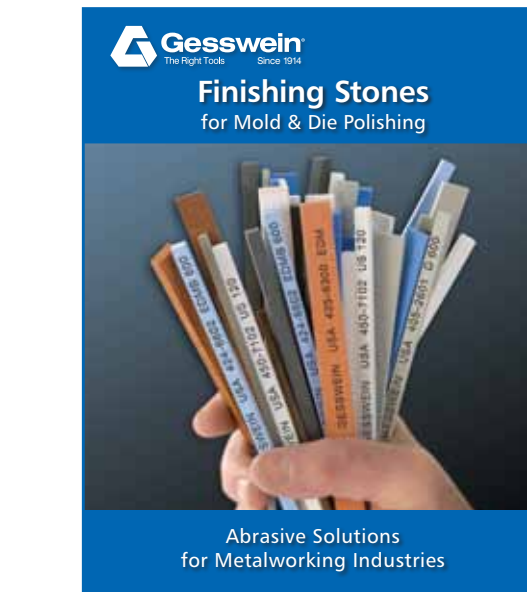
Description	Item#	Each
Set of 20	<b>405-2086</b>	<b>\$51.00</b>



Diemaker	Style	Grit	Item#	Each Prices	
				1-11	12-71
	2123H	150	<b>405-2123</b>	<b>3.74</b>	<b>3.12</b>
	2223H	220	<b>405-2223</b>	<b>3.74</b>	<b>3.12</b>
	2323H	320	<b>405-2323</b>	<b>4.16</b>	<b>3.47</b>
	2423H	400	<b>405-2423</b>	<b>4.16</b>	<b>3.47</b>
	2623H	600	<b>405-2623</b>	<b>4.76</b>	<b>3.97</b>
	2823H	800	<b>405-2823</b>	<b>4.76</b>	<b>3.97</b>
	2923H	900	<b>405-2923</b>	<b>5.70</b>	<b>4.75</b>
4023H	1200	<b>405-4023</b>	<b>6.28</b>	<b>5.23</b>	

EDM	Style	Grit	Item#	Each Prices	
				1-11	12-71
	123H	120	<b>425-0123</b>	<b>\$3.98</b>	<b>\$3.32</b>
	183H	180	<b>425-0183</b>	<b>3.98</b>	<b>3.32</b>
	223H	220	<b>425-0223</b>	<b>3.98</b>	<b>3.32</b>
	323H	320	<b>425-0323</b>	<b>4.24</b>	<b>3.53</b>
	423H	400	<b>425-0423</b>	<b>4.24</b>	<b>3.53</b>
	623H	600	<b>425-0623</b>	<b>5.12</b>	<b>4.27</b>

OT	Style	Grit	Item#	Each Prices	
				1-11	12-71
	5123H	120	<b>435-5123</b>	<b>\$4.28</b>	<b>\$3.57</b>
	5023H	180	<b>435-5023</b>	<b>4.28</b>	<b>3.57</b>
	5223H	220	<b>435-5223</b>	<b>4.28</b>	<b>3.57</b>
	5323H	320	<b>435-5323</b>	<b>4.46</b>	<b>3.72</b>
	5423H	400	<b>435-5423</b>	<b>4.46</b>	<b>3.72</b>
	5623H	600	<b>435-5623</b>	<b>5.56</b>	<b>4.63</b>
	5823H	800	<b>435-5823</b>	<b>5.84</b>	<b>4.87</b>
	5923H	1200	<b>435-5923</b>	<b>6.40</b>	<b>5.33</b>



**Ask for Our New Finishing Stones Brochure!  
Order #890-2463**

Moldmaker	Style	Grit	Item#	Each Prices	
				1-11	12-71
	023H	100	<b>410-0023</b>	<b>\$3.64</b>	<b>\$3.03</b>
	123H	150	<b>410-0123</b>	<b>3.64</b>	<b>3.03</b>
	223H	220	<b>410-0223</b>	<b>3.64</b>	<b>3.03</b>
	323H	320	<b>410-0323</b>	<b>4.30</b>	<b>3.58</b>
	423H	400	<b>410-0423</b>	<b>4.30</b>	<b>3.58</b>
	623H	600	<b>410-0623</b>	<b>5.30</b>	<b>4.42</b>

GP	Style	Grit	Item#	Each Prices	
				1-11	12-71
	1523H	150	<b>406-1523</b>	<b>\$4.28</b>	<b>\$3.57</b>
	1823H	180	<b>406-1823</b>	<b>4.28</b>	<b>3.57</b>
	1223H	220	<b>406-1223</b>	<b>4.28</b>	<b>3.57</b>
	1323H	320	<b>406-1323</b>	<b>4.46</b>	<b>3.72</b>
	1423H	400	<b>406-1423</b>	<b>4.46</b>	<b>3.72</b>
	1623H	600	<b>406-1623</b>	<b>5.56</b>	<b>4.63</b>

**New!**

**Excellent for heavier deburring work!**



## Maxima 80 Micromotor System

**Adjustable torque with up to 40,000rpm!**

The Maxima 80 system features adjustable torque with much more power than conventional models. Handles a wide variety of applications such as deburring, grinding, polishing, engraving, finishing and more. Provides 30% more power due to improved controller circuitry and powerful neodymium handpiece magnet.

**Features:**

- Torque adjustment screw
- Speed adjustment dial
- Forward/reverse switch
- Overload protection

**System Includes:**

- Controller – Simple and compact
- Choice of high-torque PHP35 handpiece or high-speed PHP40 handpiece with cooling system in 3/32", 1/8" or 3mm collet options (Collets are interchangeable for maximum tool compatibility). Coiled handpiece cord is very flexible
- Variable-speed foot rheostat
- Replacement set of carbon brushes

**Specifications:**

**Controller**

Electrical: 120V, 1 Ph, 50/60Hz  
 Dimensions: 3.4"W x 5.9"D x 6.2"H  
 Net Wt.: 5.5 lbs.

**Handpiece**

	<b>PHP35</b>	<b>PHP40</b>
Speed Range:	0–35,000rpm	0–40,000rpm
Max. Torque:	6.5 N-cm	6.0 N-cm
Dimensions:	1" dia. x 5.9"L	1" dia. x 5.5"L
Net Wt.:	7 oz.	6 oz.

Description	Max. RPM	Collet	Item#	Each
Maxima 80 w/ PHP35	35,000	1/8"	<b>510-5110</b>	<b>\$725.00</b>
		3/32"	<b>510-5115</b>	<b>725.00</b>
		3mm	<b>510-5120</b>	<b>725.00</b>
Maxima 80 w/ PHP40	40,000	1/8"	<b>510-5125</b>	<b>725.00</b>
		3/32"	<b>510-5130</b>	<b>725.00</b>
		3mm	<b>510-5135</b>	<b>725.00</b>

**New!**



**Ideal when electrical outlet is not nearby**

**Slim & light-weight handpiece**

## Mini Mobile Micromotor System

**The truly portable, rechargeable system with 33,000rpm!**

If you need a system for light jobs on the go, look no further than the Mini Mobile, our only battery-operated micromotor system. Also has a plug-in adaptor which allows you to operate unit and charge batteries at the same time.

**Rechargeable NiMH battery pack for true portability!**

**Features:**

- Rechargeable NiMH battery - Up to 140 mins. of continuous operation
- Speed adjustment dial
- Overload protection
- Ergonomic design

**System Includes:**

- Compact controller
- High-speed handpiece with 3/32" collet, on/off foot switch
- Handpiece cradle
- AC adapter
- Attractive aluminum carrying case with fitted foam insert

**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  
 Net Wt.: 9.5 oz.

**Handpiece**

Speed Range: 0–33,000rpm  
 Dimensions: 1" dia. x 5.6"L  
 Net Wt.: 5.2 oz.

**Carrying Case**

Dimensions: 13.8"W x 11.3"D x 3.8"H

Description	Max. RPM	Collet	Item#	Each
Mini Mobile System	33,000	1/8"	<b>510-2900</b>	<b>\$375.00</b>
		3/32"	<b>510-2905</b>	<b>375.00</b>

## Marathon Handy 700 Micromotor System

The Handy 700 system features an advanced dual control system 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 removal. Ideal for a variety of applications including; grinding, deburring, polishing and more. Use with Power Hand 2X handpieces for rotary finishing tasks that require normal torque.

### Features:

- Low vibration, low noise
- Brushless, sealed handpiece that eliminates hassle of replacing carbon brushes
- Dial or foot rheostat speed control
- Easy-to-read digital speed display for precise speed and torque settings
- Forward/reverse rotation
- Overload protection

### Specifications:

**Controller**  
 Electrical: 100–120V, 40W, 50/60Hz  
 Dimensions: 5<sup>3</sup>/<sub>8</sub>"W x 9<sup>1</sup>/<sub>16</sub>"D x 7<sup>1</sup>/<sub>16</sub>"H  
 Net Wt.: 6 lbs.

**Handpiece**  
 Speed Range: 1,000–50,000rpm  
 Max. Power: 230W  
 Max. Torque: 7.8 N-cm  
 Dimensions: 6<sup>5</sup>/<sub>16</sub>"L x <sup>3</sup>/<sub>4</sub>" dia. at finger grips  
 Net Wt.: 8.4 oz.

### System Includes:

- Handy 700 controller with integral carrying handle and BH-60 handpiece with quick-tool-change mechanism
- 1/8" collet, <sup>3</sup>/<sub>32</sub>" available
- Variable-speed foot rheostat
- Detachable handpiece holder
- 2-year handpiece warranty, CE approval

**New Low Price!**

Description	Max. RPM	Collet	Item#	Each
Handy 700 System with foot rheostat	50,000	1/8"	510-2925	\$695.00



**Will accept our full range of Power Hand 2X Mechanical Handpieces. See pages 10-13.**

## Marathon Micromotor System

### The affordable 35,000rpm system.

The affordable turnkey system, Marathon includes everything you need to start working right out of the box: compact controller, lightweight 35,000rpm rotary handpiece with flexible curl cord, handpiece cradle rest, variable-speed foot rheostat, and safety glasses. Available with 1/8" or <sup>3</sup>/<sub>32</sub>" collet.

### Features:

- Voltage selector switch for 110/220V operation, dial speed control
- Forward/reverse handpiece switch
- Well-balanced ergonomic design that fits well in your hand
- Quick-tool-change mechanism
- Flexible curl cord

### Specifications:

**Controller**  
 Electrical: 110/220V, 50/60Hz  
 Output voltage: 0–30V DC (continuously variable)  
 Dimensions: 4<sup>1</sup>/<sub>2</sub>"W x 5<sup>3</sup>/<sub>4</sub>"D x 3<sup>3</sup>/<sub>4</sub>"H  
 Net Wt.: 2.6 lbs.

**Handpiece**  
 Speed Range: 0–35,000rpm  
 Dimensions: 6"L x <sup>5</sup>/<sub>8</sub>" dia. at finger grips  
 Net Wt.: 7.5 oz.

**SALE! Save 15%**



Description	Max. RPM	Collet	Item#	Each	Sale
Marathon System	35,000	1/8"	510-2945	<del>\$339.00</del>	\$288.15
		<sup>3</sup> / <sub>32</sub> "	510-2955	<del>339.00</del>	288.15

**POWER/HAND<sup>®</sup>2X Handpieces**



See p.43 for DiProfile



**Dual Controller – Two User Model**

Dual Controller has 2 handpiece output stations with separate speed controls so 2 people can operate separate handpieces at the same time. Optional foot rheostat for each output station can be added. Convenient handpiece rest on top of controller. Made in Japan.

- Available in 115V or 230C AC, 50/60Hz
- Output Voltage: 0 – 30V DC
- 8<sup>1</sup>/<sub>4</sub>"W x 8"D x 7"H
- Weight: 9 lbs.

Description	Item#	Each
Dual Controller, 115V	<b>510-2100</b>	<b>\$499.00</b>
Dual Controller, 230V	<b>510-2110</b>	<b>499.00</b>
Optional Variable Foot Rheostat	<b>510-2995</b>	<b>118.00</b>

**Standard Controller – Single User Model**

Standard 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 slide rheostat or optional foot rheostat. Convenient forward/reverse switch on panel and handpiece holder on side. 3<sup>3</sup>/<sub>8</sub>"W x 5<sup>3</sup>/<sub>4</sub>"H. Made in Japan.

- Available in 115V or 230C AC, 50/60Hz
- Output Voltage: 3-30V DC
- 3<sup>3</sup>/<sub>8</sub>"W x 7<sup>3</sup>/<sub>4</sub>"D x 5<sup>3</sup>/<sub>4</sub>"H
- Weight: 5<sup>1</sup>/<sub>2</sub> lbs.

Description	Item#	Each
A. Standard Controller, 115V	<b>510-3000</b>	<b>\$399.00</b>
Standard Controller, 230V	<b>510-3010</b>	<b>399.00</b>
B. Replacement HP Holder	<b>510-3130</b>	<b>9.95</b>
Optional Variable Foot Rheostat	<b>510-2995</b>	<b>118.00</b>

Both controllers feature a thermal sensor to prevent overheating, overload protection and circuitry to provide high torque to handpiece while maintaining constant speed.

**Two-Piece Rotary Handpieces**



These handpieces can accept a wide range of head attachments (see pages 12-13) making them the most versatile handpieces. All have a quick tool change feature, powerful 30V DC air-cooled motors and are supplied with <sup>3</sup>/<sub>32</sub>" and <sup>1</sup>/<sub>8</sub>" collets. Select between the following rpm units: 8,000 for maximum torque, 15,000 for most tough jobs requiring high torque and 30,000 for general purpose jobs.

**Z-08X Highest-Torque Rotary Handpiece – 8,000rpm**

Description	Item#	Each
Z-08X	<b>510-2257</b>	<b>\$595.00</b>

**Z-15X High-Torque Rotary Handpiece – 15,000rpm**

Description	Item#	Each
Z-15X	<b>510-2270</b>	<b>\$599.00</b>

**Z-30X General-Purpose Rotary Handpiece – 30,000rpm**

Description	Item#	Each
Z-30X	<b>510-2280</b>	<b>\$645.00</b>

**Slimline Rotary Handpieces**



Featuring one-piece construction, these handpieces have powerful 30V DC air-cooled motors, a quick tool change feature and are supplied with <sup>3</sup>/<sub>32</sub>" and <sup>1</sup>/<sub>8</sub>" collets. 3mm collets available separately. Select the Z-20XS for continuous production use at 20,000rpm, the Z-35X for grinding and polishing at 35,000rpm and the High Speed Z-55X for precise deburring at 55,000rpm speeds.

**Z-20XS Slimline Rotary Handpiece – 20,000rpm**

Description	Item#	Each
Z-20XS	<b>510-2277</b>	<b>\$525.00</b>

**Z-35XS Slimline Rotary Handpiece – 35,000rpm**

Description	Item#	Each
Z-35XS	<b>510-2287</b>	<b>\$645.00</b>

**Z-55X High-Speed Rotary Handpiece – 55,000rpm**

Description	Item#	Each
Z-55X	<b>510-2290</b>	<b>\$625.00</b>



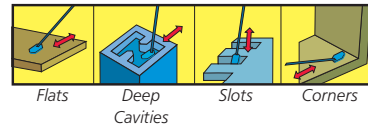
# POWER HAND<sup>®</sup> 2X Handpieces

## Reciprocating Profilers

Both Z-2X and Z-6X provide standard back-and-forth reciprocating action with choice of speeds and stroke lengths. They hold 1.5 to 6.35mm (1/4") diameter tools as well as 4mm or 6mm threaded ULTRAMAX Ultrasonic tools with appropriate adapters and clamp tool holders (see [www.gesswein.com](http://www.gesswein.com)). Secured tools can float freely and be fixed at any position through 360°. Comfortable grip allows prolonged use.

Description	Stroke	Item#	Each
Z-2X	0-2mm	<b>510-2150</b>	<b>\$995.00</b>
Z-6X	0-6mm	<b>510-2160</b>	<b>995.00</b>

Z-2X and Z-6X Recipro Applications (back and forth)



## BZX Belt Sander

Use for deburring flat and curved surfaces and for edge breaking. Comfortable to hold with minimal vibration. Belt speed is 39 feet/sec max. Supplied with straight and 45° angle belt arms that are spring loaded for rapid 6mm and 8mm wide belt changes.

Description	Item#	Each
BZX Belt Sander	<b>510-2130</b>	<b>\$945.00</b>
Optional 4mm Straight Arm	<b>510-0494</b>	<b>119.00</b>



## Sanding Belts for BZX

Aluminum oxide abrasive belts specially made for use with our Power Hand 2X BZX Belt Sander. 6mm and 8mm belts fit on either straight or 45°-angle arms provided with BZX. Use 4mm with optional 4mm straight arm.

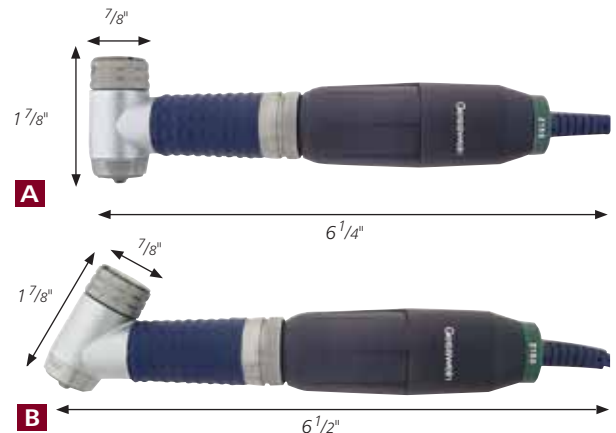
Size	80 Grit Item#	120 Grit Item#	180 Grit Item#	320 Grit Item#	Pkg. of 10
4mm	<b>510-0500</b>	<b>510-0505</b>	<b>510-0510</b>	<b>510-0515</b>	<b>\$20.50</b>
6mm	<b>510-0520</b>	<b>510-0525</b>	<b>510-0527</b>	<b>510-0530</b>	<b>20.50</b>
8mm	<b>510-0535</b>	<b>510-0540</b>	<b>510-0545</b>	<b>510-0550</b>	<b>20.50</b>



## Angle Rotary Handpieces – 15,000rpm

Each model features two-piece construction and a high-torque Z-M15X motor to drive sandpaper, felt pads, mounted stones and brushes. Supplied with 3mm and 1/8" collets, collet wrenches, replacement motor brushes and tool accessory starter kit. Optional 3/32" collets available.

Description	Item#	Each
A. RZ-15X (90°)	<b>510-2120</b>	<b>\$685.00</b>
B. CZ-15X (120°)	<b>510-2225</b>	<b>745.00</b>



## Micromotor Drive Diprofilers

Gesswein is proud to offer our newest Diprofiler systems. The Professional and Classic MM Drive Diprofilers are built with a micromotor inside every handpiece and can connect directly to any Gesswein PowerHand control box. Eliminates the need for noisy flexible shaft motors and greasy hanging cables. Available in Professional and Classic models.



### Professional Micromotor Drive Diprofiler

#### Maximum Efficiency – Minimal Vibrations

Simply the best reciprocating handpiece in the market today, the Professional Diprofiler 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.

Available in two models: 1/4" chuck capacity or 1/8" chuck capacity. 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
Professional MM Diprofiler 1/4" chuck capacity	<b>850-1913</b>	<b>\$2,795.00</b>
Complete Kit (Includes Professional Diprofiler 1/4" chuck capacity, Marathon controller and variable speed foot rheostat)	<b>850-1944</b>	<b>2,945.00</b>
Professional MM Diprofiler 1/8" chuck capacity	<b>850-1912</b>	<b>2,645.00</b>
Complete Kit (Includes Professional Diprofiler 1/8" chuck capacity, Marathon controller and variable speed foot rheostat)	<b>850-1943</b>	<b>2,795.00</b>



### Classic Micromotor Drive Diprofiler

Choose between 1/4" chuck capacity or 1/8" chuck capacity. 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
MM Diprofiler 1/4" chuck capacity	<b>850-1915</b>	<b>\$2,095.00</b>
MM Complete Kit (Includes MM Diprofiler 1/4" chuck capacity, Marathon controller and variable speed rheostat)	<b>850-1946</b>	<b>2,245.00</b>
MM Diprofiler 1/8" chuck capacity	<b>850-1914</b>	<b>1,995.00</b>
MM Complete Kit (Includes MM Diprofiler 1/8" chuck capacity, Marathon controller and variable speed rheostat)	<b>850-1945</b>	<b>2,145.00</b>

*\*Operation Guide is included with profiler for safety and operating instructions. For information on hand transmitted vibration see ANSI Standard S2.70 2006 (R2011).*

## Classic Flex Shaft Drive Diprofilers

The flex shaft driven Diprofiler 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.

Available in two models: 1/4" chuck capacity (FPS) or 1/8" 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.

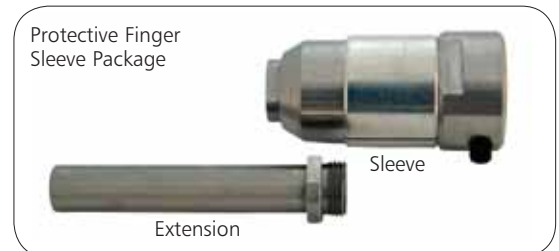
Description	Item#	Each
FPS Diprofiler 1/4" chuck capacity	<b>850-1919</b>	<b>\$1,495.00</b>
FPS Complete Kit (Includes Diprofiler 1/4" chuck capacity, model TX flex shaft motor, and TXR foot rheostat)	<b>850-1939</b>	<b>1,695.00</b>
FPC Diprofiler 1/8" chuck capacity	<b>850-1827</b>	<b>1,425.00</b>
FPC Complete Kit (Includes Diprofiler 1/8" chuck capacity, model TX flex shaft motor, and TXR foot rheostat)	<b>850-1938</b>	<b>1,625.00</b>



## 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 Diprofiler (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 Diprofilers.

Description	Item#	Each
Finger Sleeve Package for Diprofiler 1/4"	<b>850-1917</b>	<b>\$240.00</b>
Finger Sleeve Package for Diprofiler 1/8"	<b>850-1916</b>	<b>223.00</b>



## Tool Holders – For all Diprofiler models

Description	Item#	Each
A. Universal Tool Holder (holds up to 6mm thick and 8mm wide) – 3mm shank	<b>403-1050</b>	<b>\$45.00</b>
B. Ceramic Stone Holder (holds up to 1mm thick and up to 8mm wide) – 3mm shank	<b>403-1045</b>	<b>29.00</b>
C. Economy Adjustable Stone Holder (holds up to 9/16" thick) – 3mm shank	<b>403-1015</b>	<b>39.95</b>



**DYNABRADE® - Made in USA**



**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
1/2" NPT Filter Regulator/Lubricator	<b>850-6152</b>	<b>\$170.00</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	<b>850-6153</b>	<b>\$143.00</b>



**Miniature Filter/Regulator/Lubricator**

General purpose filter for air handpieces removes solid and liquid particles to 5 microns. Micro-Fog Lubricator has 1 oz. reservoir and provides oil mist to lubricate moving parts of air handpieces. 1/8" ports.

Model	Item#	Each
1/8" NPT Mini Filter/Regulator/Lubricator	<b>850-7349</b>	<b>\$159.00</b>



**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/regulator/lubricator to a Dynabrade 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.	<b>850-6158</b>	<b>\$28.00</b>
Air Hose, 12ft.	<b>850-6159</b>	<b>40.00</b>



**Reinforced Air Hose with Fittings**

This 8' long 1/4" I.D. rubber hose comes with 1/8" NPT coupler and 1/4" NPT coupler. Withstands air pressures up to 250 PSI.

Model	Item#	Each
Reinforced Air Hose	<b>850-7323</b>	<b>\$27.85</b>



**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
Dynaswivel®	<b>850-6155</b>	<b>\$15.10</b>
Dynaswivel® with Air-Flow Control	<b>850-6156</b>	<b>21.35</b>





DYNABRADE® - Made in USA

**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.

1/8" Collet, Rear Exhaust. Air Inlet thread 1/4" NPT, Hose I.D. 1/4" (6mm). Max air flow @ 90 PSIG (6.2 Bar): 20 SCFM.

Model	Max. RPM	Item#	Each
Variable Speed Pencil Grinder	25,000rpm	<b>850-6100</b>	<b>\$395.00</b>



**Extension Pencil Grinder – 35,000rpm**

Reach into tighter areas for precision deburring and grinding! Collet has a 1-1/8" 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, 1/8" collet. Air Inlet thread 1/4" NPT, Hose I.D. 1/4" (6mm). Max air flow @ 90 PSIG (6.2 Bar): 8 SCFM.

Model	Max. RPM	Item#	Each
Extension Pencil Grinder	35,000rpm	<b>850-6105</b>	<b>\$405.00</b>



**Quick Change Pencil Grinder – 60,000rpm**

Dynabrade's Wrenchless Pencil Grinder combines precision deburring, engraving and finishing with an exciting new feature: a convenient lever for changing your accessory in seconds! A true time-saver for high production workplaces. Turn lever outward 90 degrees to open collet and easily replace accessory. Built-in Rapid Stop Break stops tool motor within 1 second.

0.1HP, Turbine Air Motor, Rear Exhaust, 1/8" Collet. Hose I.D. 1/4" (6mm). Max air flow @ 90 PSIG (6.2 Bar): 8 SCFM.

Model	Max. RPM	Item#	Each
Quick Change Pencil Grinder	60,000rpm	<b>850-6110</b>	<b>\$710.00</b>



**Mini Dynafile® II Set – 25,000rpm**

Air-powered 0.4HP, 7° Offset abrasive belt tool replaces tedious hand filing and sanding. Grind, debur, blend, polish, finish and more! Includes Contact Arm for 1/2" wide x 12" long abrasive belts. Multi-position head pivots 360°. Kit includes Drive Wheel, 3 Contact Arms, threaded collet insert to convert tool to 1/4" Die Grinder, assorted Coated and Non-Woven Nylon Belts, Durable Carrying Case. Air Inlet thread 1/4" NPT, Hose I.D. 1/4" (6mm). Max air flow @ 90 PSIG (6.2 Bar): 20 SCFM.

Model	Max. RPM	Item#	Each
Mini Dynafile® II Set	25,000rpm	<b>850-6120</b>	<b>\$615.00</b>



**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 1/8" collet, Swiss Pattern files: Equaling, Curved, Half-Round, High Carbon Steel Scribe Point, 1/8" and 1/4" wide Chisels and Wrench. Max air flow @ 90 PSIG (6.2 Bar): 7 SCFM.

Model	Max. Strokes/Min.	Item#	Each
Dynapen Set	14,000	<b>850-6115</b>	<b>\$405.00</b>





A



B

### Suhner® Swiss Grinders

#### 80,000rpm, right-angle and straight rotary handpieces

Specially designed for mold, tool, and die makers, 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. Choose from slim right-angle or straight grinder with rear speed controls. Both supplied with 1/8" collet (3/32" collet available separately) and wrench. Each requires 1/8" NPT coupler and 1/4" ID hose (see #850-7323 on p.15). Use with Filter/Regulator-Lubricator. 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	<b>850-7320</b>	<b>\$734.00</b>
B. Straight	80,000	90	6.6	<b>850-7300</b>	<b>712.00</b>



### 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. Measures 5 5/8"L x 1 3/16" dia. Weighs 5.7 oz.

Max. RPM	PSI	CFM	Item#	Each
80,000	90	0.30	<b>850-2235</b>	<b>\$174.00</b>



### 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. Measures 6 3/4"L x 1" dia. Weighs 5.9 oz.

Max. RPM	PSI	CFM	Item#	Each
60,000	56-85	5.83	<b>850-7230</b>	<b>\$340.00</b>



### High-Torque Precision Air Grinder HT60

High-torque, quiet-running, well-balanced rotary handpiece for deburring and finishing work. Includes fixed 1/8" collet (also available with fixed 3/32" or 3.0mm collet). Supplied with air hose, coupler and tool changing wrenches. Requires Filter/Regulator/Lubricator (see [www.gesswein.com](http://www.gesswein.com)). Measures 5 5/8"L x 1 1/16" dia. Weighs 6.4 oz.

Max. RPM	PSI	CFM	Item#	Each
60,000	90	0.28	<b>850-2230</b>	<b>\$149.00</b>



### Turbo Air Lappers

Low-vibration, quiet-running, durable reciprocating handpieces. Excellent for general-purpose finishing and polishing of mold and die surfaces. Perfect for polishing ribs, slots and other tight areas. Produces great results with Diamond Poli Files (see [www.gesswein.com](http://www.gesswein.com)) and Super Ceramic Stones (see p.6). 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. Measures 8"L x 1 1/8" dia.

Strokes/Minute	Stroke Length	PSI	CFM	Item#	Each
40,000	0.3mm	90	1.76	<b>850-2250</b>	<b>\$318.00</b>
35,000	0.7mm	90	1.76	<b>850-2245</b>	<b>318.00</b>
25,000	1.2mm	90	1.76	<b>850-2251</b>	<b>318.00</b>

## UHT (Ushio) Air Grinders

### Up to 65,000rpm pencil and surface air grinders/polishers

Quiet running handpieces ideal for many applications, including precision grinding, finishing, and polishing. Feature self-lubricating vanes for dependable performance. Offer rear speed control and rear exhaust. Supplied with 5' of 3/16" air hose and 1/4" NPT coupler. Airline filter/oiler kit required (#850-7349 see p. 15). Made in Japan.

## UHT (Ushio) Pencil Grinders

Both offer a unique 1/8" fixed collet design providing extra-long bearing life and reduced heat build-up. Contra-Angle 120° model allows access to hard-to-reach, deep areas.

Model	Max. RPM	PSI	CFM	Weight	Item#	Each
A. Straight	65,000	85	4.2	4.5 oz.	<b>850-0900</b>	<b>\$299.00</b>
B. Contra-Angle	53,000	85	4.2	5.0 oz.	<b>850-0905</b>	<b>335.00</b>

## UHT (Ushio) Surface Micro Angle Air Grinder/Polishers New!

Both offer 7mm threaded shaft for delivering maximum torque to 30mm diameter grinding, sanding, and buffing tools (see selection below). 90° and 120° heads are available to optimize ergonomics.

Model	Max. RPM	PSI	CFM	Weight	Item#	Each
C. 90° Angle	23,500	85	4.2	10.2 oz.	<b>850-0890</b>	<b>\$335.00</b>
D. 120° Angle	23,500	85	4.2	10.2 oz.	<b>850-0895</b>	<b>335.00</b>

## Grinding Wheels & Abrasive Discs

Description	Dia.	Grit	Item#	Box of 48
Cup Wheels	30mm	60	<b>850-2242</b>	<b>\$42.00</b>
		100	<b>850-2243</b>	<b>42.00</b>
		150	<b>850-2244</b>	<b>42.00</b>
Description	Dia.	Grit	Item#	Box of 150
PSA Discs	30mm	60	<b>850-2229</b>	<b>\$27.50</b>
		100	<b>850-2231</b>	<b>27.50</b>
		150	<b>850-2232</b>	<b>27.50</b>
		240	<b>850-2233</b>	<b>27.50</b>
		320	<b>850-2234</b>	<b>27.50</b>
400	<b>850-2239</b>	<b>27.50</b>		
Description	Dia.	Item#	Each	
PSA Disc Holder	30mm	<b>850-2241</b>	<b>\$3.50</b>	



## UHT (Ushio) TurboLap Air Filer New!

### 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 quiet and is designed to be operated for long periods without getting hot. Provides optimum results with Diamond Poli Files (see our website) and Super Ceramic Stones (see p. 6). Lightweight with good balance and ergonomic soft-grip design.

Supplied with hexagonal wrench, one Diamond Poli File, 1.5m air hose, over hose, hose bands and quick joint with filter. Accepts up to 1mm flat or 3mm round tools. Requires 1/4" NPT air connection. Use with Filter/Regulator/Lubricator (see p. 15). Measures 7"L x 1" dia. Weighs 5.9 oz.

Strokes/Minute	Stroke Length	PSI	CFM	Item#	Each
A. 52,000	0.3mm	90	1.65	<b>850-0928</b>	<b>\$435.00</b>
B. 28,000	0.7mm	90	1.65	<b>850-0930</b>	<b>435.00</b>
C. 19,000	1.2mm	90	1.65	<b>850-0932</b>	<b>435.00</b>





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

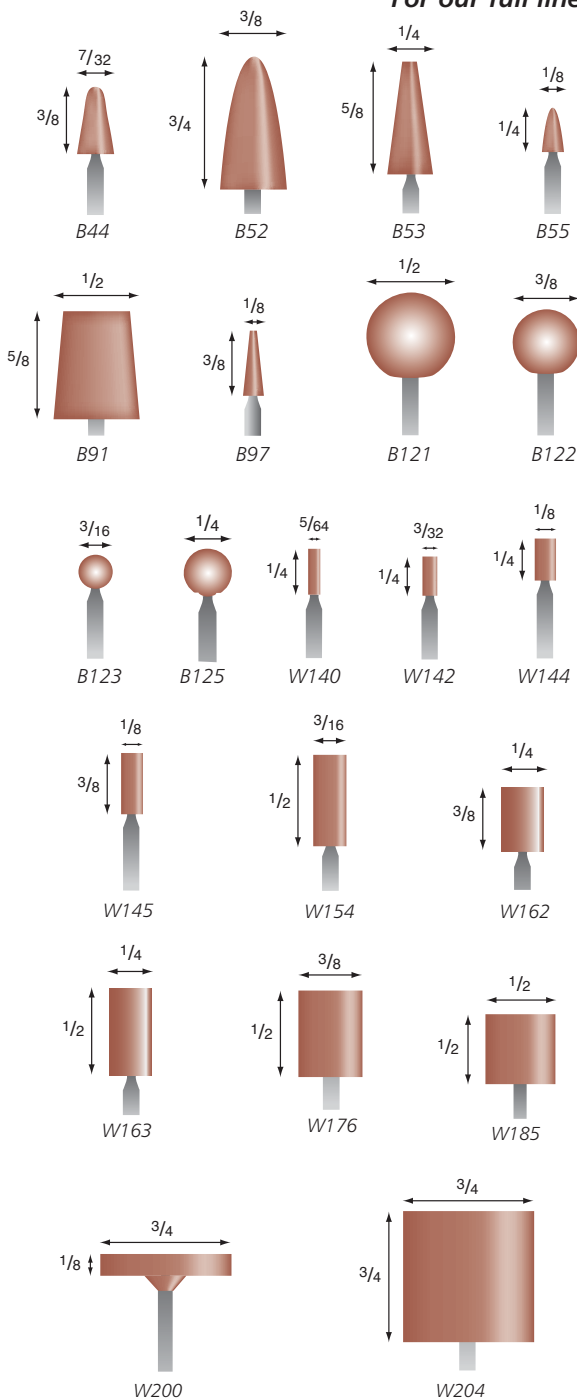
## Red Mounted Stones

These fast-cutting, nonloading stones are easily identified by their reddish color. Made of Aluminum oxide bonded with porcelain-type clays. The ceramic bond controls the release of the aluminum oxide abrasive grains. As each particle begins to dull, the bond discharges it, exposing new abrasive grain to the surface with sharp cutting edges. The grit varies between 60, 80, (medium) and 100 (fine). For fast grinding of medium and hard metals. Ideal for internal grinding of tools, dies and gauges.

Can be dressed with our Tru-Stone (#380-1030).

Mounted on 1/8" shanks which are 1 1/2" long and made of nickel-plated steel. Made in USA.

For our full line of sizes, go to: [www.gesswein.com](http://www.gesswein.com)



Style	Grit	Qty.	Item#	Pkg./Box Prices			
				1	2-3	4-9	10+
B44	60	Pkg. of 12	<b>309-0440</b>	\$16.00	\$14.40	\$13.60	\$12.00
		Box of 72	<b>301-0440</b>	76.00	68.40	64.60	57.00
B52	60	Pkg. of 12	<b>309-0520</b>	17.00	15.30	14.45	12.75
		Box of 72	<b>301-0520</b>	83.00	74.70	70.55	62.25
B53	60	Pkg. of 12	<b>309-0530</b>	17.00	15.30	14.45	12.75
		Box of 72	<b>301-0530</b>	83.00	74.70	70.55	62.25
B55	60	Pkg. of 12	<b>309-0550</b>	14.00	12.60	11.90	10.50
		Box of 72	<b>301-0550</b>	65.00	58.50	55.25	48.75
B91	60	Box of 12	<b>301-0910</b>	17.00	15.30	14.45	12.75
B97	60	Pkg. of 12	<b>309-0970</b>	16.00	14.40	13.60	12.00
		Box of 72	<b>301-0970</b>	76.00	68.40	64.60	57.00
B121	60	Pkg. of 12	<b>309-1210</b>	16.00	14.40	13.60	12.00
		Box of 36	<b>301-1210</b>	38.00	34.20	32.30	28.50
B122	60	Pkg. of 12	<b>309-1220</b>	16.00	14.40	13.60	12.00
		Box of 72	<b>301-1220</b>	76.00	68.40	64.60	57.00
B123	80	Pkg. of 12	<b>309-1230</b>	14.00	12.60	11.90	10.50
		Box of 72	<b>301-1230</b>	65.00	58.50	55.25	48.75
B125	80	Pkg. of 12	<b>309-1250</b>	16.00	14.40	13.60	12.00
		Box of 72	<b>301-1250</b>	78.00	70.20	66.30	58.50
W140	100	Pkg. of 12	<b>309-1400</b>	13.00	11.70	11.05	9.75
		Box of 72	<b>301-1400</b>	60.00	54.00	51.00	45.00
W142	100	Pkg. of 12	<b>309-1420</b>	13.00	11.70	11.05	9.75
		Box of 72	<b>301-1420</b>	60.00	54.00	51.00	45.00
W144	80	Pkg. of 12	<b>309-1440</b>	12.00	10.80	10.20	9.00
		Box of 72	<b>301-1440</b>	55.00	49.50	46.75	41.25
W145	80	Pkg. of 12	<b>309-1450</b>	13.00	11.70	11.05	9.75
		Box of 72	<b>301-1450</b>	60.00	54.00	51.00	45.00
W154	80	Pkg. of 12	<b>309-1540</b>	13.00	11.70	11.05	9.75
		Box of 72	<b>301-1540</b>	60.00	54.00	51.00	45.00
W162	80	Pkg. of 12	<b>309-1620</b>	13.00	11.70	11.05	9.75
		Box of 72	<b>301-1620</b>	60.00	54.00	51.00	45.00
W163	80	Pkg. of 12	<b>309-1630</b>	13.00	11.70	11.05	9.75
		Box of 72	<b>301-1630</b>	60.00	54.00	51.00	45.00
W176	60	Pkg. of 12	<b>309-1760</b>	13.00	11.70	11.05	9.75
		Box of 72	<b>301-1760</b>	60.00	54.00	51.00	45.00
W185	60	Pkg. of 12	<b>309-1850</b>	13.00	11.70	11.05	9.75
		Box of 36	<b>301-1850</b>	30.00	27.00	25.50	22.50
W200	60	Box of 12	<b>301-2000</b>	11.00	9.90	9.35	8.25
		Box of 12	<b>301-2040</b>	15.00	13.50	12.75	11.25



## Blue Mounted Stones

These superior quality stones are 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 so that as each particle begins to dull, the bond discharges it allowing new abrasive grain to surface with fresh, sharp cutting edges. Guaranteed to run true.

Our Mounted Stones are hard stones which hold their shape exceptionally well and are recommended for use on hardened steel. All are 120 grit (fine). Aluminum Oxide with Cobalt added to provide lubrication while grinding.

Can be dressed with our Tru-Stone (#380-1030).

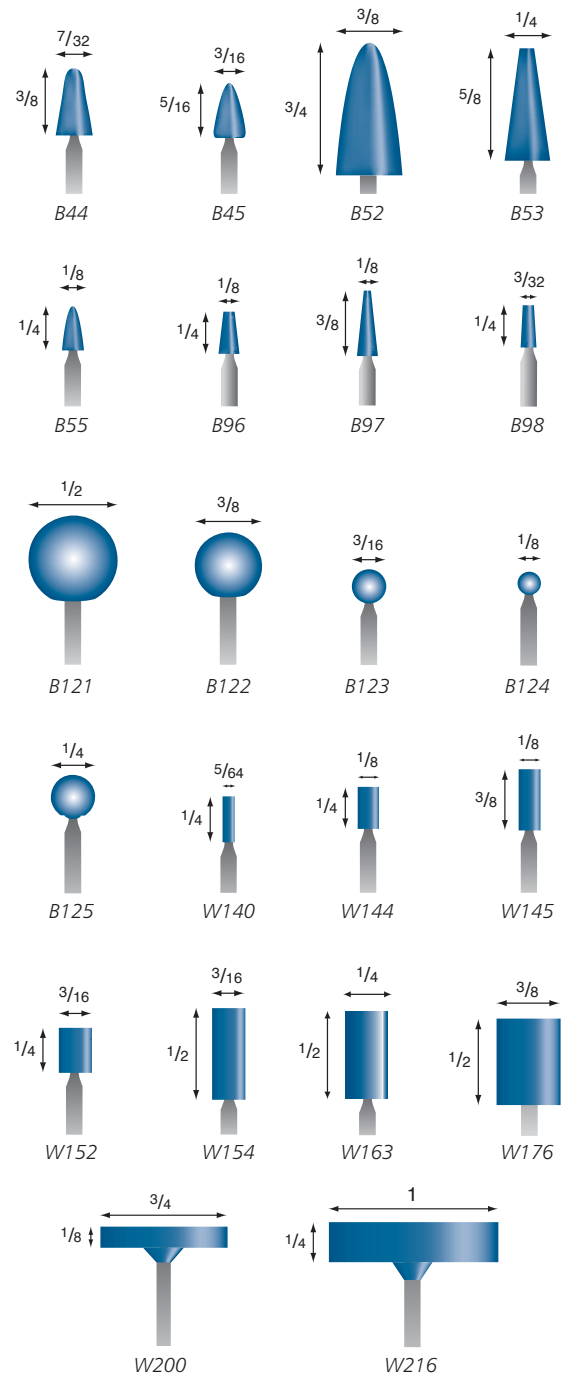
Mounted on 1/8" shanks which are 1 1/2" long and made of nickel-plated steel. Made in USA.



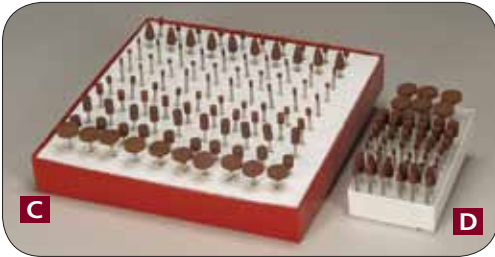
Available in plastic packages of 12 and boxes of 12, 36 or 72.

For our full line of sizes, go to: [www.gesswein.com](http://www.gesswein.com)

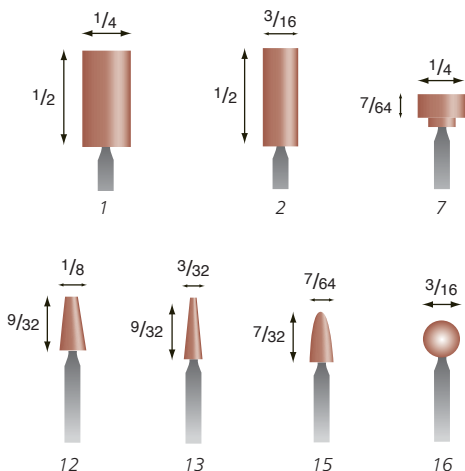
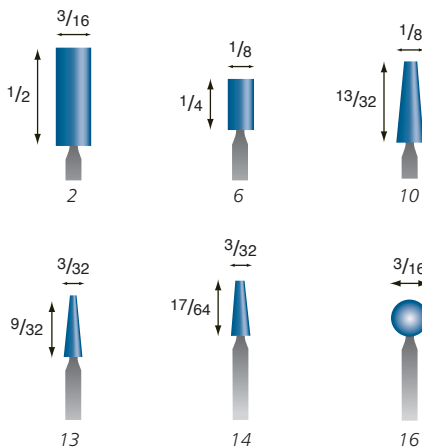
Style	Grit	Qty.	Item#	Pkg./Box Prices			
				1	2-3	4-9	10+
B44	120	Pkg. of 12	304-0440	\$16.00	\$14.40	\$13.60	\$12.00
		Box of 72	300-0440	76.00	68.40	64.60	57.00
B45	120	Pkg. of 12	304-0450	16.00	14.40	13.60	12.00
		Box of 72	300-0450	76.00	68.40	64.60	57.00
B52	120	Pkg. of 12	304-0520	17.00	15.30	14.45	12.75
		Box of 72	300-0520	83.00	74.70	70.55	62.25
B53	120	Pkg. of 12	304-0530	17.00	15.30	14.45	12.75
		Box of 72	300-0530	83.00	74.70	70.55	62.25
B55	120	Pkg. of 12	304-0550	14.00	12.60	11.90	10.50
		Box of 72	300-0550	65.00	58.50	55.25	48.75
B96	120	Pkg. of 12	304-0960	14.00	12.60	11.90	10.50
		Box of 72	300-0960	65.00	58.50	55.25	48.75
B97	120	Pkg. of 12	304-0970	16.00	14.40	13.60	12.00
		Box of 72	300-0970	76.00	68.40	64.60	57.00
B98	120	Pkg. of 12	304-0980	15.00	13.50	12.75	11.25
		Box of 72	300-0980	65.00	58.50	55.25	48.75
B121	120	Pkg. of 12	304-1210	16.00	14.40	13.60	12.00
		Box of 36	300-1210	38.00	34.20	32.30	28.50
B122	120	Pkg. of 12	304-1220	16.00	14.40	13.60	12.00
		Box of 72	300-1220	76.00	68.40	64.60	57.00
B123	120	Pkg. of 12	304-1230	14.00	12.60	11.90	10.50
		Box of 72	300-1230	65.00	58.50	55.25	48.75
B124	120	Pkg. of 12	304-1240	16.00	14.40	13.60	12.00
		Box of 72	300-1240	70.00	63.00	59.50	52.50
B125	120	Pkg. of 12	304-1250	16.00	14.40	13.60	12.00
		Box of 72	300-1250	78.00	70.20	66.30	58.50
W140	120	Pkg. of 12	304-1400	13.00	11.70	11.05	9.75
		Box of 72	300-1400	60.00	54.00	51.00	45.00
W144	120	Pkg. of 12	304-1440	12.00	10.80	10.20	9.00
		Box of 72	300-1440	55.00	49.50	46.75	41.25
W145	120	Pkg. of 12	304-1450	13.00	11.70	11.05	9.75
		Box of 72	300-1450	60.00	54.00	51.00	45.00
W152	120	Pkg. of 12	304-1520	12.00	10.80	10.20	9.00
		Box of 72	300-1520	55.00	49.50	46.75	41.25
W154	120	Pkg. of 12	304-1540	13.00	11.70	11.05	9.75
		Box of 72	300-1540	60.00	54.00	51.00	45.00
W163	120	Pkg. of 12	304-1630	13.00	11.70	11.05	9.75
		Box of 72	300-1630	60.00	54.00	51.00	45.00
W176	120	Pkg. of 12	304-1760	13.00	11.70	11.05	9.75
		Box of 72	300-1760	60.00	54.00	51.00	45.00
W200	120	Box of 12	300-2000	11.00	9.90	9.35	8.25
		Box of 12	300-2160	13.00	11.70	11.05	9.75



# MOUNTED STONES



All Made in USA



## Mounted Stone Sets – 1/8" Shank

Gesswein 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 10 each of our 10 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 6 each of 8 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
<b>Blue</b>		
A. 100-Piece Blue Mounted Stone Set	<b>305-3000</b>	<b>\$95.00</b>
B. 48-Piece Blue Mounted Stone Set	<b>305-3010</b>	<b>46.00</b>
<b>Red</b>		
C. 100-Piece Red Mounted Stone Set	<b>310-3000</b>	<b>95.00</b>
D. 48-Piece Red Mounted Stone Set	<b>310-3010</b>	<b>46.00</b>

## Blue Mounted Points – 3/32" Shank

Hard blue aluminum oxide stones with cobalt added to provide lubrication while grinding. Hold their shapes, cut well. Recommended for use on hardened steel. Mounted on 3/32" dia. x 1 1/2" L nickel-plated steel shanks. All are 120 grit. Can be dressed with our Tru-Stone #380-1030.

Style	Grit	Qty.	Item#	Pkg./Box Price
2	120	Pkg. of 12	<b>316-0020</b>	<b>\$14.00</b>
		Box of 72	<b>314-0020</b>	<b>61.00</b>
6	120	Pkg. of 12	<b>316-0060</b>	<b>14.00</b>
		Box of 72	<b>314-0060</b>	<b>61.00</b>
10	120	Pkg. of 12	<b>316-0100</b>	<b>14.00</b>
		Box of 72	<b>314-0100</b>	<b>61.00</b>
13	120	Pkg. of 12	<b>316-0130</b>	<b>14.00</b>
		Box of 72	<b>314-0130</b>	<b>61.00</b>
14	120	Pkg. of 12	<b>316-0140</b>	<b>14.00</b>
		Box of 72	<b>314-0140</b>	<b>61.00</b>
16	120	Pkg. of 12	<b>316-0160</b>	<b>14.00</b>
		Box of 72	<b>314-0160</b>	<b>61.00</b>

## Red Mounted Points – 3/32" Shank

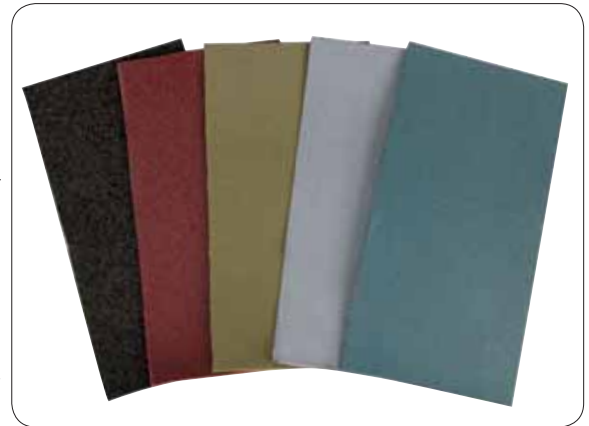
Very fast-cutting, nonloading aluminum oxide stones, easily identified by their reddish-brown color. For fast grinding of medium and hard materials. Ideal for internal grinding of tools, dies and gauges. Mounted on 3/32" dia. x 1 1/2" L nickel-plated steel shanks. Range from 80 to 150 grit. Can be dressed with our Tru-Stone #380-1030.

Style	Grit	Qty.	Item#	Pkg./Box Price
1	80	Pkg. of 12	<b>321-0010</b>	<b>\$13.00</b>
		Box of 72	<b>319-0010</b>	<b>56.00</b>
2	80	Pkg. of 12	<b>321-0020</b>	<b>13.00</b>
		Box of 72	<b>319-0020</b>	<b>56.00</b>
7	120	Pkg. of 12	<b>321-0070</b>	<b>13.00</b>
		Box of 72	<b>319-0070</b>	<b>56.00</b>
12	120	Pkg. of 12	<b>321-0120</b>	<b>13.00</b>
		Box of 72	<b>319-0120</b>	<b>56.00</b>
13	120	Pkg. of 12	<b>321-0130</b>	<b>13.00</b>
		Box of 72	<b>319-0130</b>	<b>56.00</b>
15	120	Pkg. of 12	<b>321-0150</b>	<b>13.00</b>
		Box of 72	<b>319-0150</b>	<b>56.00</b>
16	100	Pkg. of 12	<b>321-0160</b>	<b>13.00</b>
		Box of 72	<b>319-0160</b>	<b>56.00</b>

## 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 50x100mm (4" x 8").

Color	Grit	Item#	Price
Brown	120	<b>107-4951</b>	<b>\$51.00</b>
Red	200	<b>107-4952</b>	<b>39.00</b>
Yellow	400	<b>107-4953</b>	<b>35.00</b>
White	600	<b>107-4954</b>	<b>35.00</b>
Blue	1,000	<b>107-4955</b>	<b>44.00</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 50x100mm (4" x 8").

Grit	Item#	Price
120	<b>107-5790</b>	<b>\$40.50</b>
200	<b>107-5792</b>	<b>30.95</b>
400	<b>107-5794</b>	<b>27.00</b>
600	<b>107-5795</b>	<b>23.50</b>
1200	<b>107-5797</b>	<b>23.50</b>



## 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 cutting action as the stone wears.

### Flat with Plastic Handle

Stone Dimensions (LxW)	Grit	Item#	Price
1 1/2" x 3/8"	400	<b>240-3031</b>	<b>\$35.95</b>
	800	<b>240-3033</b>	<b>35.95</b>
	1200	<b>240-3035</b>	<b>35.95</b>



Flat with Plastic Handle

### Flat with Aluminum Handle

Stone Dimensions (LxW)	Grit	Item#	Price
1 1/8" x 3/8"	400	<b>240-3051</b>	<b>\$38.40</b>
	800	<b>240-3053</b>	<b>38.40</b>
	1200	<b>240-3055</b>	<b>38.40</b>



Flat with Aluminum Handle

### Half Round with Steel Handle

Stone Dimensions (LxW)	Grit	Item#	Price
1 1/2" x 3/16"	400	<b>240-3041</b>	<b>\$40.95</b>
	800	<b>240-3043</b>	<b>40.95</b>
	1200	<b>240-3045</b>	<b>40.95</b>



Half Round with Steel Handle

## Gesswein® Diamond Files

Premium diamond files for use on steels, carbides, ceramics, plastics and more. Feature 100% synthetic diamonds—more consistent in shape than natural diamonds—plated onto high-strength steel blanks for consistent cutting and long life.



## Gesswein® Diamond Needle Files

Diamond needle files with 3mm round handles. Measure 5 1/2" long. Plated ends measure 2 3/4" long. Can be used as is or with needle file handles (see [www.gesswein.com](http://www.gesswein.com))

Style	Shape	Grit	Item#	Each Prices		
				1-4	5-9	10+
A. Round		150	240-2162	\$22.00	\$20.90	\$19.80
B. Half-Round		150	240-2152	22.00	20.90	19.80
C. Square		150	240-2142	22.00	20.90	19.80
D. Three-Square		150	240-2132	22.00	20.90	19.80
E. Equalling		150	240-2112	22.00	20.90	19.80
F. Barrette		150	240-2102	22.00	20.90	19.80
6-Piece Set (one of each)			240-2200	125.00	-	-

**Best Sellers!**



## Needle File Handle

Durable plastic handle that holds all needle files. Measures 3 1/4" long.

Description	Item#	Each
Needle File Handle	170-4010	\$4.95



## Gesswein® Diamond Hand Files

Heavy-duty diamond hand files with square shanks for use by hand or with handles. Measures 215mm (8 7/16") long. Plated ends measure a generous 80mm (3 5/32") long.

Style	Shape	W x Thick	Grit	Item#	Each
G. Equalling		11.0 x 3.5mm	100	241-0746	\$39.95
			200	241-0747	39.95
			400	241-0748	39.95
H. Square		6.3 x 6.3mm	100	241-0735	39.95
			200	241-0736	39.95
			400	241-0737	39.95
I. Half-Round		10.5 x 4.4mm	100	241-0749	39.95
			200	241-0730	39.95
			400	241-0731	39.95
J. Round		5.0mm	100	241-0732	39.95
			200	241-0733	39.95
			400	241-0734	39.95
K. Three-Square		7.7mm	100	241-0738	39.95
			200	241-0739	39.95
			400	241-0740	39.95
5-Piece Set (one of each style)			100	241-0741	169.95
			200	241-0742	169.95
			400	241-0743	169.95

**Best Sellers!**






Visit our website [www.gesswein.com](http://www.gesswein.com) for the complete selection of diamond files and products

## Spectra Diamond Files

High-quality diamond files at economical prices. Feature a combination of natural and synthetic diamonds firmly plated onto durable steel blanks. Made in Germany.

### Spectra Medium Diamond Needle Files

Diamond needle files with 3mm round handles. Measure 5<sup>1</sup>/<sub>2</sub>" (14cm) long. Plated ends measure 2<sup>3</sup>/<sub>4</sub>" 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
5-Piece Set (one of each)		241-0250	141.00	-	-

**Best Sellers!**



### Spectra Fine Diamond Needle Files

Diamond needle files with 3mm round handles. Measure 5<sup>1</sup>/<sub>2</sub>" (14cm) long. Plated ends measure 2<sup>3</sup>/<sub>4</sub>" 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
5-Piece Set (one of each)		241-0245	141.00	-	-

**Best Sellers!**



### Spectra Diamond Micro Files

Mini diamond files with <sup>3</sup>/<sub>32</sub>" wide handles. Measure approx. 4" long except round, which measures approx. 3<sup>3</sup>/<sub>4</sub>" long. Plated ends measure approx. 2" long with <sup>1</sup>/<sub>16</sub>"–<sup>1</sup>/<sub>32</sub>" taper for round only. Very fine grit (D64, or U.S. standard 230/270).

Style	Shape	Item#	Each Prices		
			1-4	5-9	10+
K. Round (tapered)		241-0500	\$26.00	\$24.70	\$23.40
L. Half-Round		241-0505	26.00	24.70	23.40
M. Square		241-0510	26.00	24.70	23.40
N. Three-Square		241-0515	26.00	24.70	23.40
O. Equalling		241-0520	26.00	24.70	23.40
5-Piece Set (one of each)		241-0525	123.00	-	-

**Best Sellers!**

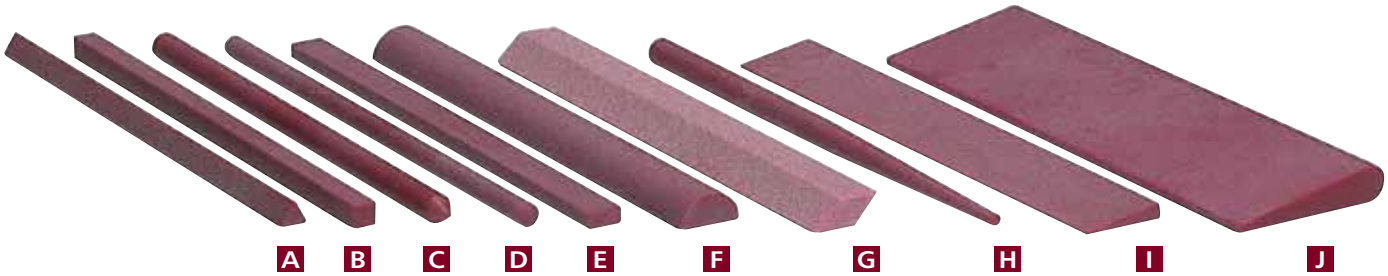




# DEBURRING

## Gesswein® Ruby® Stones and Files – For use on hardened steel and carbide.

Use Gesswein Ruby Stones for deburring, blending, dressing, and fine polishing of molds & dies made of hard metals such as hardened tool steel, carbide and surgical stainless steel. Extremely hard and highly resistant to wear. Pure sintered crystals of synthetic ruby with no bonding material. Made in Germany.



### Applications:

#### Mold & Die

- Deburring ejector pin holes.
- General deburring and edge breaking on mold steel and carbide.
- Blending a surface where a straight edge meets a radius.
- Polishing highly detailed areas on dies (after dressing Ruby Stone to a point).
- Polishing ribs and other hard to reach areas (Ruby Midget Files, p. 25).

#### Medical

- Fine polishing of surgical stainless steel instruments.

Also recommended for use on materials such as glass, quartz and porcelain.

## Ruby® Stones

Available in Coarse, Medium and Fine grits.

Shape	L x W x H* (mm)	Coarse		Medium		Fine	
		Item#	Each	Item#	Each	Item#	Each
A. Triangular ▲	100 x 4	–	–	350-2002	\$58.70	–	–
	100 x 6	350-2011	\$67.10	350-2012	67.10	–	–
	100 x 8	350-2021	78.60	350-2022	89.60	350-2023	\$102.60
	100 x 10	–	–	350-2032	89.60	350-2033	116.75
B. Square ■	100 x 4	–	–	350-2102	66.65	–	–
	100 x 6	350-2111	63.30	350-2112	69.35	–	–
	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	116.75	350-2143	129.10
C. Round, Pointed ●	100 x 5	–	–	–	–	350-2613	41.55
D. Round ●	100 x 4	–	–	350-2702	63.30	350-2703	68.35
	100 x 6	350-2711	66.95	350-2712	78.00	–	–
	100 x 8	350-2721	81.90	350-2722	80.70	350-2723	84.90
	100 x 10	350-2731	81.60	350-2732	89.00	350-2733	94.30
E. Flat ▬	100 x 6 x 3	–	–	350-2202	54.95	350-2203	53.05
	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	69.65	350-2312	83.65	–	–
G. Rhomboid ◑	100 x 13 x 5	350-2401	90.15	–	–	–	–
H. Round, One Tapered End ●	100 x 5 x 2	350-2551	60.90	–	–	350-2553	60.90
I. Knife Edge ◄	100 x 15 x 3/0.5	–	–	350-2912	130.25	350-2913	130.25
J. Tapered, Rounded Edge ◄	100 x 30 x 7/2	–	–	350-1052	171.80	–	–

\*All dimensions have tolerance of ±0.1mm.

## Ruby® Bench Stones

Very effective for sharpening and for flattening steel and carbide parts. The first two sizes of stones listed are finished on both sides. The rest are finished on one side only and come neatly mounted in wooden boxes.



Dimensions (inches)	Medium		Fine	
	Item#	Each	Item#	Each
4 x 1 x 3/8"	350-1002	\$106.65	350-1003	\$117.90
6 x 1 x 5/8"	350-1012	171.80	350-1013	171.80
4 x 1 x 3/8"	350-1102	95.45	350-1103	112.30
4 3/4" x 2 x 3/8"	350-1112	252.60	350-1113	252.60

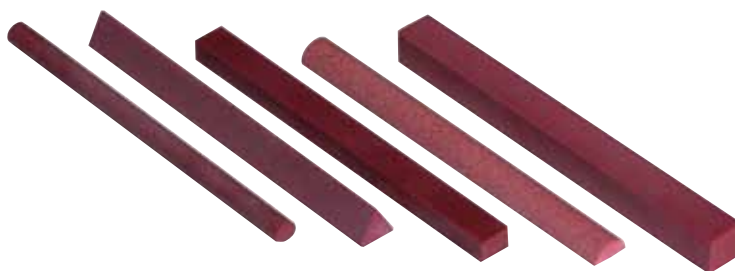
\*Finished on both sides.



## Ruby® Combo Bench Stone

Finished on two sides and neatly packaged in a wooden box. One side of the stone is medium and the other side is fine. Ideal for sharpening knives and gravers made of high speed steel or carbide.

Dimensions (inches)	Item#	Each
4 3/4" x 2" x 3/8"	350-1114	\$296.40



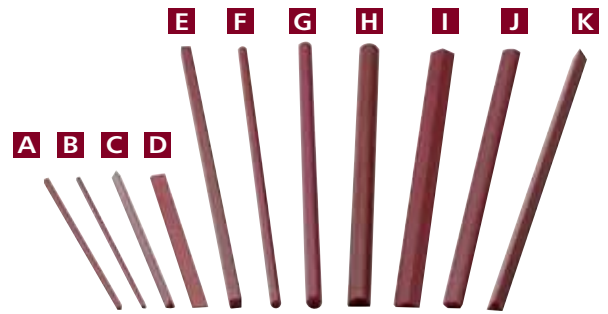
## Ruby® Stone Set #700

This handy set contains one each of the Ruby Stones indicated below. Save money by purchasing the kit vs. buying 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

\*All dimensions have tolerance of ±0.1mm.

Description	Item#	Each
Ruby Stone Set #700	350-3000	\$288.40



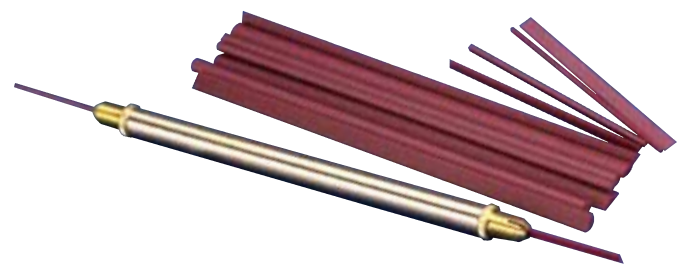
## Ruby® Midget Files

Extremely hard and highly resistant to wear. Pure sintered crystals of synthetic ruby with no bonding material. Ruby stones will retain their original shape – a valuable feature for high detail and ultra-precision deburring. Will also break edges, radius edges and sharpen cutting edges like those in surgical staplers.

Shape	L x W x H* (mm)	Item#	Each Prices	
			1-19	20+
A. Square	■ 50 x 1	350-4000	\$7.85	\$6.54
B. Round	● 50 x 1	350-4010	8.15	6.79
C. Triangular	▲ 50 x 2	350-4020	9.95	8.29
D. Flat	— 50 x 3 x 0.3	350-4060	9.85	8.21

Shape	L x W x H* (mm)	Item#	Each Prices	
			1-9	10+
E. Square	■ 100 x 2	350-4030	\$19.05	\$15.87
F. Round	● 100 x 2	350-4040	19.05	15.87
G. Round	● 100 x 3	350-4050	19.05	15.87
H. Half-Round	◐ 100 x 4 x 2	350-4070	29.20	24.33
I. Barrette	▲ 100 x 5 x 1.5	350-4090	31.25	26.04
J. Crossing	◈ 100 x 4 x 1.5	350-4110	29.20	24.33
K. Triangular	▲ 100 x 3	350-4130	29.20	24.33

\*All dimensions have tolerance of ±0.1mm.



## Ruby® Midget File Set #420

This money-saving kit contains all 11 of our Ruby Midget Stones (see above) plus one double-ended holder with two collets. Holder is available only with this kit and not sold separately.

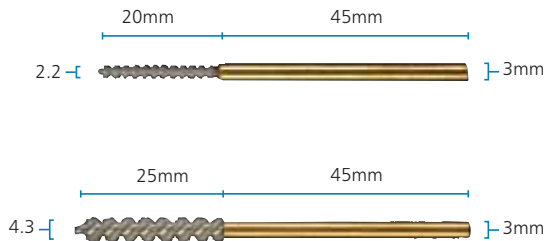
- Screw machine operators will find this set particularly helpful for dressing cutters without removing them from the machine.

Description	Item#	Each
Ruby Midget File Set #420	350-4200	\$165.95

**New!**



Micro Spiral Brush mounted in Z-08X micromotor rotary handpiece to clean a small diameter hole.



## Micro Spiral Abrasive Brushes

Use Micro Spiral Brushes to deburr an edge-hole, inside hole or cross hole.

Suitable for removing rust in cylinders, pipes, grooves and screw holes. Aluminum oxide abrasive is embedded in the nylon bristles. Made in Japan.

This new brush concept is a perfect tool for cleaning or light burr removal in through holes or on hole edges. The 0.3mm diameter nylon bristle contains 500 grit Aluminum Oxide abrasive grain. Easy to hold and use by hand or can be carefully used in a rotary handpiece if run no faster than 3,000rpm\* (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.

Style	Dia. X L	Item#	Each
MSB 2.2	2.2 x 20mm	<b>115-2288</b>	<b>\$7.95</b>
MSB 2.7	2.7 x 20mm	<b>115-2289</b>	<b>7.95</b>
MSB 3.3	3.3 x 25mm	<b>115-2290</b>	<b>7.95</b>
MSB 3.8	3.8 x 25mm	<b>115-2291</b>	<b>7.95</b>
MSB 4.3	4.3 x 25mm	<b>115-2292</b>	<b>7.95</b>
MSB 4.8	4.8 x 25mm	<b>115-2293</b>	<b>7.95</b>
MSB 5.3	5.3 x 25mm	<b>115-2294</b>	<b>7.95</b>
MSB 5.8	5.8 x 25mm	<b>115-2295</b>	<b>7.95</b>
MSB 6.3	6.3 x 25mm	<b>115-2296</b>	<b>7.95</b>

\*3,000rpm max when used in a rotary handpiece.  
Do not operate until fully inserted into the hole to be processed.

**New!**



## Precision Deburring Tool Set

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 storage pouch. Made in Switzerland.

Description	Item#	Each
6-Piece Set	<b>846-2045</b>	<b>\$74.75</b>

## Individual Precision Deburring Tools

Tool#	Disc Diameter	Item#	Each
1	0.060" and 0.070"	<b>846-2039</b>	<b>\$14.95</b>
2	0.082" and 0.092"	<b>846-2040</b>	<b>14.95</b>
3	0.106" and 0.116"	<b>846-2041</b>	<b>14.95</b>
4	0.134" and 0.150"	<b>846-2042</b>	<b>14.95</b>
5	0.160" and 0.185"	<b>846-2043</b>	<b>14.95</b>
6	0.198" and 0.208"	<b>846-2044</b>	<b>14.95</b>



**New!**

## Ceramic Deflashing and Deburring Tools for Plastic

**Each holds its edge indefinitely and provides complete user safety.**

These tools feature space-age ceramics that deburr 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<sup>7</sup>/<sub>8</sub>" long with 1<sup>1</sup>/<sub>2</sub>" long cutting edge) has matte cutter-type handles; Small Disposable Deflasher (5<sup>1</sup>/<sub>4</sub>" long with 1" long cutting edge) has a fluted, nonroll design; Micro Deflashing Pen (5<sup>7</sup>/<sub>8</sub>" long with <sup>3</sup>/<sub>8</sub>" long cutting edge) has 2 jaw chuck for easy blade replacement.

Description	Item#	Each
A. Large Ceramic Deflasher	<b>351-0295</b>	<b>\$32.95</b>
B. Small Ceramic Deflasher	<b>351-0294</b>	<b>29.95</b>
C. Micro Ceramic Deburring Pen	<b>351-0001</b>	<b>29.95</b>
Replacement Micro Blades – 5-Pack	<b>351-0002</b>	<b>29.95</b>



## Shaviv Hand Deburring Tools

Internationally recognized as the leading developer and manufacturer of hand-deburring tools, Shaviv is the choice of leading companies in the mold & die, automotive, aviation, plastics, electronics assembly and other industries.

Gesswein is proud to bring you a comprehensive collection of Shaviv's most popular, high-quality ergonomic tools for precision deburring.

Shaviv "B" style and "E" style blades are available in numerous materials and configurations for efficient deburring of dozens of materials and hundreds of applications. **"B" style blades** are 2.6mm thick and available for applications on steel, aluminum, stainless steel, copper, brass, cast iron, hardened steel, plastics, carbide, and glass. **"E" style blades** are 3.2mm thick and are useful for heavier duty applications with materials as listed above. See chart below for specific blades and their applications.

### SETS

#### Mango II B+4 with Multi-Purpose "B" Blades

Contains the Mango IIB extra-close-reach handle with a variety of blades for deburring materials with spiral or powdery chips. Included are one each of the B10, B11, B20, & B25 blades for deburring steel, aluminum, copper, brass, cast iron, and plastics.

#### Mango II E+5 with Heavy Duty "E" Blades

Contains the Mango IIE extra-close-reach handle for heavy duty use in applications similar to those listed for the Mango IIB kit. Included are one each of the E100, E111, E120, E200, & E300 blades.

#### Mango II B+E – The Two in One

Contains the Mango IIM 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.



Mango II B



Mango II E



Mango II B+E

SETS	Item#	Each
Mango II B+4 with 4 Multi-Purpose Blades	<b>846-2060</b>	<b>\$13.95</b>
Mango II E+5 with 5 Heavy Duty Blades	<b>846-2062</b>	<b>17.95</b>
Mango II B+E with 6 Blades	<b>846-2064</b>	<b>28.95</b>

Description	Mfg.#	Blade (Work Direction Shown)	Applications			Materials						Item#	Pack	1-2 Pkgs	3+ Pkgs	
			Straight Edge	Hole Edge	Cross-Hole Both Edges	Steel	Aluminum	Copper	Brass	Cast Iron	Stainless Steel					Plastics
HSS. Deburrs materials with spiral chips.	B10		•	•		•	•	•				•	846-2070	10	\$15.00	\$13.50
PVD TiN coated for high resistance to wear. B10 geometry.	B10P		•	•		•	•	•				•	846-2075	2	6.00	5.40
Long-lasting, cobalt-enriched. B10 geometry.	B10S		•	•		•	•	•				•	846-2074	10	15.00	13.50
Extra thin, HSS. Deburrs holes with min. diameter 0.08" (2mm).	B11		•	•		•	•	•				•	846-2071	10	15.00	13.50
PVD TiN coated for high resistance to wear. B11 geometry.	B11P		•	•		•	•	•				•	846-2076	2	6.00	5.40
HSS. Rotates clockwise & counterclockwise.	B20		•	•							•	•	846-2072	10	15.00	13.50
PVD TiN coated for high resistance to wear. Rotates clockwise & counterclockwise. B20 geometry.	B20P		•	•							•	•	846-2077	2	6.00	5.40
HSS. Thin-nosed. Specially designed for plastics.	B25		•	•		•	•	•				•	846-2073	10	15.00	13.50
HSS. Simultaneously deburrs the inside and outside of holes up to 0.16" (4 mm) thick.	B30				•	•	•	•				•	846-2078	10	20.00	18.00
Heavy-duty HSS. Deburrs materials with spiral chips. Bulk pack available.	E100		•	•		•	•	•				•	846-2080	10	20.00	18.00
Long-lasting, cobalt-enriched. E100 geometry.	E100S		•	•		•	•	•				•	846-2087	10	20.00	18.00
Thin-nosed. HSS. Deburrs holes with min. diameter 0.06" (1.5mm).	E111		•	•		•	•	•				•	846-2088	10	20.00	18.00
PVD TiN coated for high resistance to wear.	E111P		•	•		•	•	•				•	846-2086	2	8.00	7.20
HSS. E shaft, B20 cutting edge for materials with powdery chips. Rotates clockwise & counterclockwise.	E120		•	•							•	•	846-2082	10	20.00	18.00
HSS for materials with powdery chips. Rotates clockwise & counterclockwise.	E200		•	•							•	•	846-2085	10	20.00	18.00
PVD TiN coated for high resistance to wear. E200 geometry.	E200P		•	•							•	•	846-2083	2	8.00	7.20
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	20.00	18.00



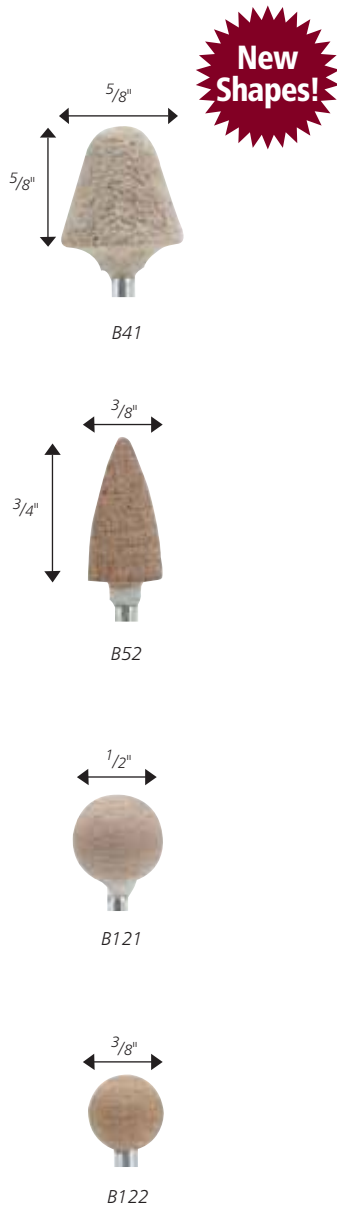
## Cotton Fiber + Abrasive Mounted Points

### 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. See Grinding Wheel Institute publications for operating speeds of mounted products. Available 1/4" shank, 3mm shank and 6mm shank available via special order.

### 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.



### Cotton Fiber Mounted Points – 1/8" Shank

Shape	Size	Grit	SOFT GMX		HARD G-FLEX		Each Prices	
			Item #	Item#	1-11	12-71	72-143	144+
B41 Cone	5/8" x 5/8"	80	205-1812	135-1812	\$9.15	\$7.78	\$6.86	\$6.13
		120	205-1814	135-1814	9.15	7.78	6.86	6.13
		180	205-1816	135-1816	9.15	7.78	6.86	6.13
		320	205-1818	135-1818	9.95	8.46	7.46	6.67
B52 Bullet	3/4" x 3/8"	80	205-1722	135-1722	7.25	6.16	5.44	4.86
		120	205-1724	135-1724	7.25	6.16	5.44	4.86
		180	205-1726	135-1726	7.25	6.16	5.44	4.86
		320	205-1728	135-1728	7.95	6.76	5.96	5.33
B121 Ball	1/2"	80	205-1832	135-1832	5.95	5.06	4.46	3.99
		120	205-1834	135-1834	5.95	5.06	4.46	3.99
		180	205-1836	135-1836	5.95	5.06	4.46	3.99
		320	205-1838	135-1838	6.75	5.74	5.06	4.52
B122 Ball	3/8"	80	205-1732	135-1732	5.95	5.06	4.46	3.99
		120	205-1734	135-1734	5.95	5.06	4.46	3.99
		180	205-1736	135-1736	5.95	5.06	4.46	3.99
		320	205-1738	135-1738	6.75	5.74	5.06	4.52

1/4" shank, 3mm shank and 6mm shank available via special order.

**See Page 31 for Our Money-Saving Sets**



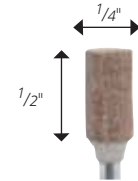
## Cotton Fiber Mounted Points – 1/8" Shank

Shape	Size	Grit			Each Prices			
			SOFT GMX Item #	HARD G-FLEX Item#	1-11	12-71	72-143	144+
W154 Cylinder	1/2" L x 3/16" D	80	205-1542	135-1542	\$4.95	\$4.21	\$3.71	\$3.32
		120	205-1544	135-1544	4.95	4.21	3.71	3.32
		180	205-1546	135-1546	4.95	4.21	3.71	3.32
		320	205-1548	135-1548	5.50	4.68	4.13	3.69
W163 Cylinder	1/2" L x 1/4" D	80	205-1632	135-1632	4.95	4.21	3.71	3.32
		120	205-1634	135-1634	4.95	4.21	3.71	3.32
		180	205-1636	135-1636	4.95	4.21	3.71	3.32
		320	205-1638	135-1638	5.80	4.93	4.35	3.89
W176 Cylinder	1/2" L x 3/8" D	80	205-1762	135-1762	5.25	4.46	3.94	3.52
		120	205-1764	135-1764	5.25	4.46	3.94	3.52
		180	205-1766	135-1766	5.25	4.96	3.94	3.52
		320	205-1768	135-1768	6.15	5.23	4.61	4.12
W177 Cylinder	3/4" L x 3/8" D	80	205-1772	135-1772	6.15	5.23	4.61	4.12
		120	205-1774	135-1774	6.15	5.23	4.61	4.12
		180	205-1776	135-1776	6.15	5.23	4.61	4.12
		320	205-1778	135-1778	6.95	5.91	5.21	4.66
W185 Cylinder	1/2" L x 1/2" D	80	205-1852	135-1852	5.25	4.46	3.94	3.52
		120	205-1854	135-1854	5.25	4.46	3.94	3.52
		180	205-1856	135-1856	5.25	4.46	3.94	3.52
		320	205-1858	135-1858	5.60	4.76	4.20	3.75
W186 Cylinder	3/4" L x 1/2" D	80	205-1862	—	6.15	5.23	4.61	4.12
		120	205-1864	—	6.15	5.23	4.61	4.12
		180	205-1866	—	6.15	5.23	4.61	4.12
		320	205-1868	—	7.10	6.04	5.33	4.76

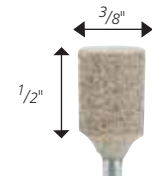
1/4" shank, 3mm shank and 6mm shank available via special order.



W154



W163



W176



W177



W185



W186

**See Page 31 for Our Money-Saving Sets**



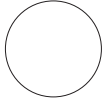

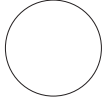
## GMX – Cotton Fiber + Abrasive, Soft Latex Bond

A long-lasting aluminum oxide abrasive in a unique composite of laminated cotton fiber in a unique flexible bond. GMX cuts and smooths in one operation leaving a smooth, even finish. **Round Sticks** are popular for smoothing the inside of holes. Use 80 grit for deburring, 120 grit to remove parting lines and small burrs, 180 and 320 grit for removing light scratches. **Discs** can be dressed to conform to shape of work piece (see [www.gesswein.com](http://www.gesswein.com) for mandrels). Made in USA.



### GMX Sticks

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+
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
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
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
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
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

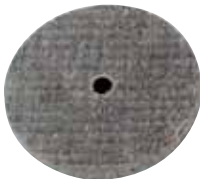
**A**



Side View



**B**



### GMX Discs

Dia. x Thick x AH	Grit	Max. RPM	Item#	Each Prices	
				1-11	12+
A. 1" x 1/16" x 1/8"	120	36,290	205-5204	\$4.60	\$3.91
	180	36,290	205-5206	4.60	3.91
	320	36,290	205-5208	5.10	4.34
B. 1" x 1/8" x 1/8"	80	36,290	205-5252	4.60	3.91
	120	36,290	205-5254	4.60	3.91
	180	36,290	205-5256	4.60	3.91
	320	36,290	205-5258	5.10	4.34

Use Mandrel **840-3110** with 1/8" shank **\$2.90** each. Please order in multiples of 3.

**Visit Our Website [www.gesswein.com](http://www.gesswein.com) to See Our Complete Line of Deburring and Finishing Products**

## Cotton Fiber + Abrasive Mounted Points Sets

Gesswein cotton fiber sets each offer an assortment of (6) GMX (Soft Latex Bond) and (6) G-Flex (Hard Resin Bond) 1/8" Shank shapes in various grits for specific applications.

- General purpose deburring and edge finishing
- Stainless and exotic alloy finishing and deburring
- Aluminum and non-ferrous finishing and deburring

See *Grinding Wheel Institute Publications* for operating speeds of mounted products.

### Application Specific 12-piece Assortments

Each 12-piece set includes 1 each GMX & G-Flex mounted points in the indicated shapes and grits.

A cost efficient way to sample various, shapes, sizes, and grits for your individual needs.

	L X D	Item#	Each
<b>General Purpose</b> Deburring and Edge Finishing - 2 Each <b>135-1510 \$59.00</b>			
B52 Bullet	3/4" x 3/8"	80 Grit	
B122 Ball	3/8"	80 Grit	
W154 Cylinder	1/2" x 3/16"	320 Grit	
W163 Cylinder	1/2" x 1/4"	80 Grit	
W177 Cylinder	3/4" x 3/8"	180 Grit	
W185 Cylinder	1/2" x 1/2"	120 Grit	

**12-Piece Set**

		Item#	Each
<b>Aluminum Non-Ferrous</b> Finishing and Deburring - 2 Each <b>135-1520 \$59.00</b>			
B41 Cone	5/8" x 5/8"	320 Grit	
B52 Bullet	3/4" x 3/8"	120 Grit	
B122 Ball	3/8"	80 Grit	
W163 Cylinder	1/2" x 1/4"	120 Grit	
W177 Cylinder	3/4" x 3/8"	180 Grit	
W185 Cylinder	1/2" x 1/2"	80 Grit	

**12-Piece Set**

**New Sets**



		Item#	Each
<b>Stainless and Exotic Alloy</b> Finishing and Deburring - 2 Each <b>135-1530 \$59.00</b>			
B52 Bullet	3/4" x 3/8"	80 Grit	
B122 Ball	3/8"	80 Grit	
W154 Cylinder	1/2" x 3/16"	120 Grit	
W163 Cylinder	1/2" x 1/4"	80 Grit	
W177 Cylinder	3/4" x 3/8"	120 Grit	
W185 Cylinder	1/2" x 1/2"	80 Grit	

**12-Piece Set**

### Rugi Mounted Cylinders – 1/8" and 1/4" Shanks

These highly resilient mounted cylinders are made with a rubberized abrasive bond so unique, both the abrasive material and the bond are patented. Easy to shape for contours, yet vibration-free. For fine grinding. Will not scratch work surface. Durable and elastic. Lower loading than vitrified and resin bond points. Excellent for grinding turbine blades; deburring openings of jet engines and turbine parts, gears and slots; finishing welds on stainless steel; and finishing glass, rubber and plastic molds.

Available on 1/8" and 1/4" shanks. Max. operating speed: 30,000rpm for 1/8" shanks, 20,000rpm for 1/4" shanks.

Dia. x L (mm)	Shank	80 Grit	120 Grit	180 Grit	220 Grit	Pkg. of 10
		Red Item#	Black Item#	Brown Item#	Green Item#	
6 x 15	1/8"	<b>353-0002</b>	<b>353-0003</b>	<b>353-0004</b>	<b>353-0005</b>	<b>\$23.40</b>
8 x 15	1/8"	<b>353-0006</b>	<b>353-0007</b>	<b>353-0008</b>	<b>353-0009</b>	<b>23.40</b>
10 x 15	1/8"	<b>353-0010</b>	<b>353-0011</b>	<b>353-0012</b>	<b>353-0013</b>	<b>23.40</b>
13 x 20	1/4"	<b>353-0014</b>	<b>353-0015</b>	<b>353-0016</b>	<b>353-0017</b>	<b>29.00</b>
15 x 20	1/4"	<b>353-0018</b>	<b>353-0019</b>	<b>353-0020</b>	<b>353-0021</b>	<b>33.00</b>
20 x 20	1/4"	<b>353-0022</b>	<b>353-0023</b>	<b>353-0024</b>	<b>353-0025</b>	<b>39.50</b>
20 x 25	1/4"	<b>353-0026</b>	<b>353-0027</b>	<b>353-0028</b>	<b>353-0029</b>	<b>42.55</b>
25 x 25	1/4"	<b>353-0030</b>	<b>353-0031</b>	<b>353-0032</b>	<b>353-0033</b>	<b>54.60</b>

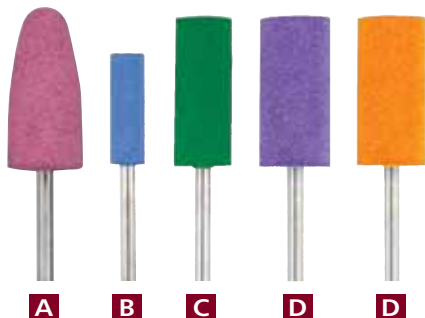


Color	Designation	Approx. Grit
Red	Coarse	80
Blue	Medium	120
Green	Fine	220
Purple	Extra-Fine	320
Orange	Ultra-Fine	500

## Cera – Ceramic Abrasive and Synthetic Rubber Combine to Produce a Near Mirror-Like Shine with Minimal Wear.

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. 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. Refer to chart for grit designations.



### Cera Points – 3/32" Shank

Points mounted on 3/32" stainless steel shanks. Max. operating speed: 30,000rpm.

Dimensions (mm)	Red 80 Grit Item#	Blue 120 Grit Item#	Green 220 Grit Item#	Purple 320 Grit Item#	Orange 500 Grit Item#	Each 1-11	Prices 12+*
A. 10 x 22	<b>351-0624</b>	<b>351-0625</b>	<b>351-0626</b>	<b>351-0627</b>	<b>351-0628</b>	<b>\$7.04</b>	<b>\$6.34</b>
B. 5 x 15	<b>351-0600</b>	<b>351-0601</b>	<b>351-0603</b>	<b>351-0604</b>	<b>351-0605</b>	<b>5.89</b>	<b>5.30</b>
C. 8 x 20	<b>351-0606</b>	<b>351-0607</b>	<b>351-0609</b>	<b>351-0610</b>	<b>351-0611</b>	<b>5.89</b>	<b>5.30</b>
D. 10 x 20	<b>351-0612</b>	<b>351-0613</b>	<b>351-0615</b>	<b>351-0616</b>	<b>351-0617</b>	<b>5.89</b>	<b>5.30</b>

\*Quantity discount for orders of one item# only, not assorted.



### Cera Wheels - Ceramic Abrasive

Un-mounted wheels with 1/16" arbor holes. Max. operating speed: 18,000rpm.



Dimensions (mm)	Red 80 Grit Item#	Blue 120 Grit Item#	Green 220 Grit Item#	Orange 500 Grit Item#	PKG. of 10 1-4	5+*
A. 18 x 3	<b>352-0101</b>	<b>352-0102</b>	<b>352-0103</b>	<b>352-0104</b>	<b>\$27.39</b>	<b>\$24.65</b>
B. 18 x 2	—	<b>352-0108</b>	<b>352-0109</b>	<b>352-0111</b>	<b>27.39</b>	<b>24.65</b>
C. 18 x 1	—	<b>352-0114</b>	<b>352-0115</b>	<b>352-0117</b>	<b>27.39</b>	<b>24.65</b>

Use Mandrel **840-3150** with 1/8" shank **\$1.35** each. Please order in multiples of 3.

\*Quantity discount for orders of one item# only, not assorted.



### Poly Polishers, Wheels & Points – 3/32" Shank

- Silicon Carbide abrasive in a specially formulated polyurethane rubber bond for long life – outlasts other types of rubber abrasives.
- Mounted on 3/32" shanks. Max. operating speed: 15,000rpm.
- Sold in packages of 10 or in money-saving packages of 100.

Mounted on 3/32" Shank	Dia. x L	Item#	Pkg.(10)	Item#	Pkg.(100)
<b>Blue – Coarse, Slightly Flexible</b>					
A. Mtd. Point	4 x 12mm	<b>145-1115</b>	<b>\$11.85</b>	<b>145-1114</b>	<b>\$95.00</b>
<b>Gray – Medium, Moderately Flexible</b>					
B. Mtd. Point	4 x 12mm	<b>145-1129</b>	<b>11.85</b>	<b>145-1128</b>	<b>95.00</b>
C. Square-Edge Mtd. Wheel	16 x 2.4mm	<b>145-1411</b>	<b>13.30</b>	<b>145-1410</b>	<b>107.00</b>
<b>Brown – Fine, Moderately Flexible</b>					
D. Mtd. Point	4 x 12mm	<b>145-1143</b>	<b>11.85</b>	<b>145-1142</b>	<b>95.00</b>
<b>Green – High Shine, Moderately Flexible</b>					
E. Mtd. Point	4 x 12mm	<b>145-1157</b>	<b>11.85</b>	<b>145-1156</b>	<b>95.00</b>
F. Square-Edge Mtd. Wheel	16 x 2.4mm	<b>145-1415</b>	<b>13.30</b>	<b>145-1414</b>	<b>107.00</b>

## Poly Polishers, Rods

- Designed for cleaning and polishing castings and metal parts. All are silicon carbide abrasive in a polyurethane carrier.
- Rods measure approximately 1" long and are available in 2, 3 and 4mm diameters for accessing tiny and/or recessed areas. Use in our Polishing Rod Mandrels.
- Can easily be dressed to a point.
- Each color/grit is sold in packages of 25 or 100 pieces.



Color	Diameter	Grit	Bond	Item#	Box of 25	Item#	Box of 100
A. Dk. Brown	2mm	Extra-Coarse	Extra-Hard	145-1270	\$10.50	145-1241	\$36.90
	3mm	Extra-Coarse	Extra-Hard	145-1271	10.50	145-1242	36.60
	4mm	Extra-Coarse	Extra-Hard	145-1272	12.95	145-1243	45.40
B. Blue	2mm	Coarse	Hard	145-1273	10.50	145-1244	36.60
	3mm	Coarse	Hard	145-1274	10.50	145-1245	36.60
	4mm	Coarse	Hard	145-1275	12.95	145-1246	45.40
C. Dk. Gray	2mm	Medium	Medium	145-1276	10.50	145-1247	36.60
	3mm	Medium	Medium	145-1277	10.50	145-1248	36.60
	4mm	Medium	Medium	145-1278	12.95	145-1249	45.40
D. Brown	2mm	Fine	Medium	145-1279	10.50	145-1250	36.60
	3mm	Fine	Medium	145-1280	10.50	145-1251	36.60
E. Green	2mm	Extra-Fine	Medium	145-1282	10.50	145-1254	36.60
	3mm	Extra-Fine	Medium	145-1283	10.50	145-1253	36.60
F. Lilac	3mm	Fine	Soft	145-1361	15.65	145-1360	45.00
G. 2mm Rod Mandrel, 3/32" shank				145-1217	3.70		
3mm Rod Mandrel, 3/32" shank				145-1218	3.95		
4mm Rod Mandrel, 3/32" shank				145-1219	3.95		

## Dressing Stone

- For use with Rubber Polishing Rods.
- Diamond Impregnated
- 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	\$4.50



## Diamond Coated Dressing Block

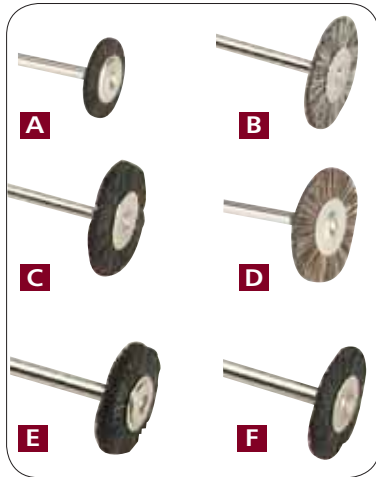
- Solid steel block with diamond coating for fast dressing and shaping of any of our rubberized abrasives.
- One side is grooved for shaping rods, points and knife-edged wheels. The other sides are flat for dressing square-edged wheels.
- Measures 3 1/2" overall length (including handle).

Description	Item#	Each
Dressing Block	145-1315	\$58.00





For Our Wire Brushes Go to:  
[www.gesswein.com](http://www.gesswein.com)



## SUPRA® Brushes

### SUPRA® "MM" Bristle Wheel Brushes

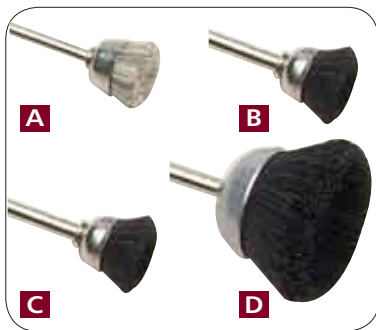
Wheel and cup brush filaments are securely anchored in a solid steel ring for durability and uniformly distributed for even wear. End brushes boast one-piece ferrule construction ensuring stem and ferrule do not separate during use. Maximum operating speed 25,000rpm. All made in USA.

Style	Bristle Type	Shank	Trim Length	Diameter	Item#	DOZEN Prices	
						1-11	12+
A. 710	Hard	3/32"	1/8"	9/16"	112-7100	\$8.95	\$7.46
700	Soft	3/32"	1/8"	9/16"	112-7000	9.95	8.29
B. 711	Hard/Silver	3/32"	3/16"	3/4"	112-7110	6.75	5.62
711	Hard/Black	3/32"	3/16"	3/4"	112-7109	5.85	4.87
C. 711D <sup>1</sup>	Hard	3/32"	3/16"	3/4"	112-7111	49.85	41.54
D. 701	Soft	3/32"	3/16"	3/4"	112-7010	7.90	6.58
701D <sup>1</sup>	Soft	3/32"	3/16"	3/4"	112-7011	52.00	43.33
E. 712D <sup>2</sup>	Hard	1/8"	3/16"	3/4"	112-7120	40.75	33.96
702D <sup>2</sup>	Soft	1/8"	3/16"	3/4"	112-7020	48.95	40.79
F. 713*	Hard	1/8"	3/16"	3/4"	112-7130	11.50	9.58
703*	Soft	1/8"	3/16"	3/4"	112-7030	13.95	11.62

\*Asterisked items also available on 3mm shanks.

<sup>1</sup> Styles 701D and 711D each contain two rows of converging bristles

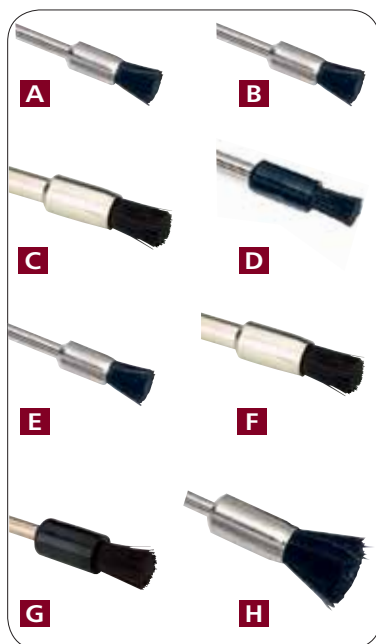
<sup>2</sup> Styles 702D and 712D each contain two rows of upright bristles



### SUPRA® "MM" Bristle Cup Brushes

Style	Wire Type	Shank	Trim Length	Diameter	Item#	DOZEN Prices	
						1-11	12+
A. 760	Hard	3/32"	5/32"	1/2"	112-7600	\$11.50	\$9.85
750	Soft	3/32"	5/32"	1/2"	112-7500	39.75	33.12
B. 761	Hard	3/32"	1/4"	9/16"	112-7610	28.75	23.96
751	Soft	3/32"	1/4"	9/16"	112-7510	13.65	11.37
C. 762*	Hard	1/8"	1/4"	9/16"	112-7620	11.25	9.37
752*	Soft	1/8"	1/4"	9/16"	112-7520	12.60	10.50
D. 764*	Hard	1/8"	7/16"	1"	112-7640	48.60	40.50
754*	Soft	1/8"	7/16"	1"	112-7540	55.40	46.16

\*Asterisked items also available on 3mm shanks.



### SUPRA® "ME" Bristle End Brushes

Style	Bristle Type	Shank	Trim Length	Ferrule Diameter	Item#	DOZEN Prices	
						1-11	12+
A. 864	Hard	3/32"	1/4"	5/32"	110-8640	\$12.95	\$10.79
B. 860	Hard	3/32"	1/4"	3/16"	110-8600	7.25	6.04
860 <sup>3/8</sup>	Hard	3/32"	3/8"	3/16"	110-8603	8.25	6.87
860 <sup>1/2</sup>	Hard	3/32"	1/2"	3/16"	110-8605	8.65	7.21
850	Soft	3/32"	1/4"	3/16"	110-8500	18.35	15.29
C. 861	Hard	3/32"	3/8"	1/4"	110-8610	19.95	16.62
851	Soft	3/32"	3/8"	1/4"	110-8510	25.95	21.62
D. 859*	Hard	1/8"	1/4"	3/16"	110-8590	7.95	6.62
859P	Hard	1/8"	1/4"	3/16"	111-8590	10.30	8.58
E. 849*	Soft	1/8"	1/4"	3/16"	110-8490	12.95	10.79
849P	Soft	1/8"	1/4"	3/16"	111-8490	19.00	15.83
F. 862*	Hard	1/8"	3/8"	1/4"	110-8620	21.95	18.29
G. 862P	Hard	1/8"	3/8"	1/4"	111-8620	15.45	12.87
862 <sup>1/2</sup>	Hard	1/8"	1/2"	1/4"	110-8625	15.85	13.21
862 <sup>3/4</sup>	Hard	1/8"	3/4"	1/4"	110-8627	21.60	18.00
852	Soft	1/8"	3/8"	1/4"	110-8520	25.95	21.62
852P	Soft	1/8"	3/8"	1/4"	111-8520	25.75	21.46
H. 962*	Hard	1/8"	9/16"	5/16"	110-9620	20.15	16.79

Style# with "P" have plastic ferrules. All others are metal.

\*Asterisked items also available on 3mm shanks.

### Felt Bobs – 1/8" Shank

**For producing a high finish on molds, dies and more.**

Made of the finest 100% wool for long life. Wool fibers are cleaned and scoured with no impurities – won't scratch delicate surfaces. All Felt Bobs are individually trued and balanced for precision and uniformity. Can be used with Simichrome, Diamond or other polishing compounds to produce a high finish on molds, dies and models. Use on metals, alloys, glass, plastics, wood, fiberglass and composites. Choose from hard, medium and soft grades. Made in USA.

Dia. x L	Hard Item#	Medium Item#	Soft Item#	Each
A. 3/8" x 1/2"	286-1010	290-1010	289-1010	\$1.93
B. 1/2" x 1"	286-1011	-	-	2.06
C. 1/4" x 1/4"	286-1020	290-1020	289-1020	1.83
D. 1/2" x 1/2"	286-1022	290-1022	289-1022	1.90
E. 3/8" x 1/2"	286-1030	290-1030	289-1030	1.80
F. 1/2" x 1"	286-1031	-	-	2.00
G. 1/2" x 3/4"	286-1040	-	-	1.80
H. 1/2" x 3/4"	286-1051	-	-	1.80
I. 1/2" x 1/2"	286-1060	-	-	1.80
J. 1/4" x 1/4"	286-1100	290-1100	289-1100	1.19
K. 1/4" x 3/8"	286-1101	290-1101	289-1101	1.24
L. 3/8" x 3/8"	286-1102	290-1102	289-1102	1.24
M. 3/8" x 1/2"	286-1103	290-1103	289-1103	1.29
N. 1/2" x 1/2"	286-1104	290-1104	289-1104	1.40
O. 1/2" x 3/4"	286-1105	290-1105	289-1105	1.54
P. 1/2" x 1"	286-1106	290-1106	289-1106	1.68
Q. 5/8" x 5/8"	286-1107	290-1107	289-1107	2.00
R. 5/8" x 1"	286-1108	290-1108	289-1108	2.04
S. 3/4" x 3/4"	286-1110	290-1110	289-1110	2.15
T. 3/4" x 1"	286-1111	-	-	2.40
U. 3/4" x 1 1/2"	286-1113	-	-	2.88
V. 1" x 1"	286-1114	290-1114	289-1114	2.88

12-piece minimum; please order in multiples of 12.



**Visit our website [www.gesswein.com](http://www.gesswein.com) for our full line of polishing products**

### Hard Poli-Felts – 1/8" Shank

The same high quality felt as used in our Bobs. End cut at 45° angle to fit into slots. Can be shaped to your need. Mount in our Z-2X and Z-6X Reciprocating Profilers (see p. 11) and other reciprocating handpieces. Made in USA.

Style	Felt Size	Item#	Each Prices		
			1-11	12-143	144+
61	1/4" square x 1 1/2" L	288-4610	\$3.60	\$3.00	\$2.52
62	3/8" square x 1 3/4" L	288-4620	4.04	3.37	2.83
63	1/2" square x 1 3/4" L	288-4630	4.35	3.62	3.05



**6-Gram Syringes**



**Gesswein® Diamond Compounds**

All Gesswein Diamond Compounds use 100% virgin synthetic diamonds which are more consistent in shape than natural diamond. Synthetic diamond guarantees sharp even cutting action.

Feature close tolerances on particle size and distribution for consistency. The diamond concentration is specifically designed for the mold & die industry.

Available in 3 types: Standard Oil-Soluble (most popular), Water-Soluble, and Budget Oil-Soluble. Our Standard Oil-Soluble Compounds are preferred for high speed applications because the oil carrier assists in fast cutting and holds the slurry together well. Budget Oil-Soluble Compounds offer a lower price due to variations in grain size and friability. Water-Soluble Diamond

Compounds have the same diamond concentration and quality as our Standard Oil-Soluble with the added convenience of fast and easy cleanup.

Compounds with a designation "M" (in the style number) are 75% diamond concentration. "H" compounds are 100% concentration. Please note: all grades can be special ordered in L (light) 50%, M (medium) 75%, or H (heavy) 100% concentrations. Budget compounds have slightly less diamond concentration. Made in USA.

Packaged in 6-gram disposable syringes. Also available in 1 and 18 grams. Go to [www.gesswein.com](http://www.gesswein.com) for more information.

Grade	Application	Approx. Micron	Mesh	Color	Syringe Size (grams)	Standard Oil-Soluble Item#	Water-Soluble Item#	Each	Budget Oil-Soluble Item#	Each
A. 1/2-9M	Supreme finish	0-1	60,000	White	6	216-2045	-	\$13.20	-	-
B. 1-8M	Super finish	0-2	14,000	Ivory	6	216-2050	216-9064	11.00	216-9100	\$8.80
C. 3-7M	Very high finish	2-4	8,000	Yellow	6	216-2100	216-9066	21.45	216-9102	17.15
D. 6-48M	Mirror finish	4-8	3,000	Orange	6	216-2150	216-9068	29.15	216-9104	23.30
E. 9-6M	High finish	8-12	1,800	Green	6	216-2200	216-9070	29.15	216-9106	23.30
F. 15-5M	Fine finish	12-22	1,200	Blue	6	216-2250	216-9072	29.15	216-9108	23.30
G. 30-4H	Fast lapping	22-36	600	Red	6	216-2300	216-9074	45.65	216-9110	36.50
H. 45-3H	Medium cutting	36-54	325	Brown	6	216-2350	-	45.65	-	-
60-2H	Fast cutting	-	230	Purple	6	216-2400	-	45.65	-	-
90-1H	Coarse cutting	-	170	Gray	6	216-2450	-	45.65	-	-
120H	Fast grinding	-	120	Black	6	216-2500	-	45.65	-	-



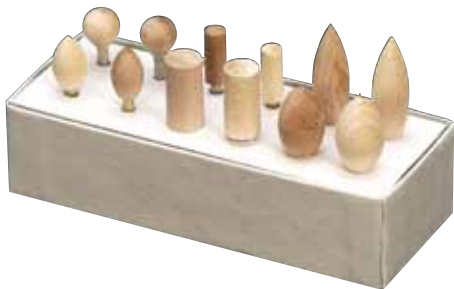
**Sets of 1-Gram Syringes**

Convenient sets give you a wide range of grits for lapping and polishing applications. Oil-Soluble Set contains 1-gram syringes of 3-7M, 9-6M, 30-4H and 60-2H and a 3/4 oz. bottle of Lubricant/Thinner (see p. 37). Water-Soluble Set contains 1-gram syringes of 3-7M, 9-6M, 15-5M and 30-4H and a 3/4 oz. bottle of Lubricant/Thinner (see p. 37).

Description	Item#	Each
Oil-Soluble Set of 4	216-9500	\$24.60
Water-Soluble Set of 4	216-9200	24.60

**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	Size	Hard	Soft	Pkg. of 10
		Item#	Item#	
Ball	3/8" dia.	825-0618	825-0638	\$33.00
Cylinder	1/4" dia. x 5/8"L	825-0605	825-0625	31.95
	3/8" dia. x 3/4"L	825-0607	825-0627	36.65
Flame	3/8" dia. x 5/8"L	825-0610	825-0630	33.00
	3/8" dia. x 1 1/4"L	825-0612	825-0632	36.65
	1/2" dia. x 3/4"L	825-0614	825-0634	36.65
12-Piece Set (one of each)		825-0640		\$37.55

## SUPRA® Diamond Compounds

Soluble in both oil and water with extra-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 unique 5-gram Precision Applicators, which afford finer control than ordinary syringes, minimizing waste and contamination.

Grade	End Use	Approx. Micron	Mesh	Color	Item#	Each
1-S	Super finish	0-2	14,000	Ivory	<b>217-0010</b>	<b>\$13.50</b>
3-S	Very high finish	2-4	8,000	Yellow	<b>217-0015</b>	<b>22.30</b>
6-S	Mirror finish	4-8	3,000	Orange	<b>217-0020</b>	<b>25.30</b>
9-S	High finish	6-12	1,800	Green	<b>217-0025</b>	<b>26.50</b>
15-S	Fine finish	10-20	1,200	Blue	<b>217-0030</b>	<b>26.50</b>
30-S	Fast lapping	20-40	600	Red	<b>217-0035</b>	<b>35.40</b>



Dial controlled applicator

## Lubricant/Thinner

For all brands of diamond compounds. Lubricants keep the diamond abrasive in suspension, allowing the compound to cut at peak performance. When added to Diamond Compound, lubricant thins out the mixture, creating a slurry and extending the compound.

Available in two formulations: Oil-Soluble and Water-Soluble and in a variety of sizes, including reusable squeeze and spray bottles for moistening felts prior to diamond compound application.

Description	Size	Item#	Each
A. <b>Oil-Soluble</b> Lubricant/Thinner	3/4 oz. Squeeze Bottle	<b>825-1295</b>	<b>\$2.50</b>
B.	4 oz. Spray Bottle	<b>825-1303</b>	<b>4.95</b>
C.	8 oz. Bottle	<b>825-1300</b>	<b>6.85</b>
D.	32 oz. Bottle	<b>825-1305</b>	<b>19.60</b>
<b>Water-Soluble</b> Lubricant/Thinner	3/4 oz. Squeeze Bottle	<b>825-1290</b>	<b>2.50</b>
	4 oz. Spray Bottle	<b>825-1310</b>	<b>4.95</b>
	8 oz. Bottle	<b>825-1315</b>	<b>6.85</b>
	32 oz. Bottle	<b>825-1320</b>	<b>19.60</b>
E. Empty 4 oz. Spray Bottle		<b>811-2460</b>	<b>2.15</b>



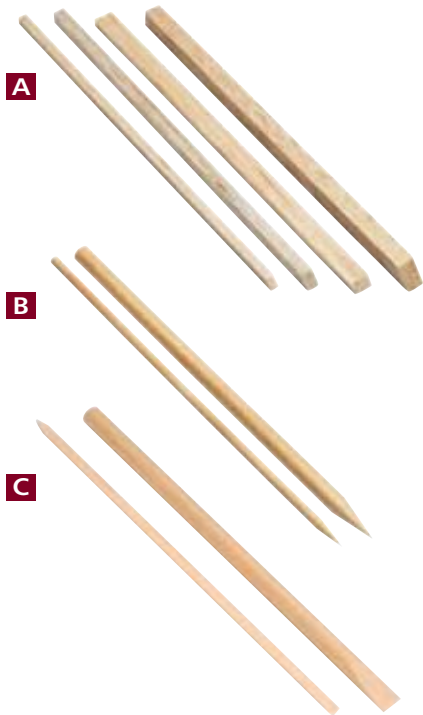
## Simichrome Polish®

One of the finest all-metal polishes in the world. Produces an ultra-high finish. Ideal for chrome, steel, brass, gold, silver and more. Use with a felt bob or soft cloth to impart a brilliant luster. Leaves a protective film. Recommended for use after diamond compound.

Description	Item#	Each
50g Tube	<b>218-2050</b>	<b>\$11.75</b>
250g Tin	<b>218-2150</b>	<b>35.00</b>
1,000g Tin	<b>218-2200</b>	<b>85.30</b>
50g Tubes, Box of 24	<b>218-2100</b>	<b>218.00</b>



**Polishing Aluminum? Visit our website to see our Supra Diamond Compounds for Aluminum.**  
[www.gesswein.com](http://www.gesswein.com)



### Very Soft Sticks

Made of 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+
A. Rectangular, Beveled	1/8" x 1/8"	<b>825-0530</b>	<b>\$7.10</b>	<b>\$5.68</b>
	3/16" x 3/16"	<b>825-0532</b>	<b>8.55</b>	<b>6.84</b>
	1/8" x 1/4"	<b>825-0534</b>	<b>8.55</b>	<b>6.84</b>
	1/4" x 1/4"	<b>825-0536</b>	<b>8.55</b>	<b>6.84</b>

### Soft Sticks

Made of select white birch 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	
			1-3	4+
B. Round, Pointed	1/8"	<b>825-0551</b>	<b>\$8.75</b>	<b>\$6.56</b>
	1/4"	<b>825-0557</b>	<b>10.75</b>	<b>8.06</b>
C. Round, Double-beveled	1/8"	<b>825-0541</b>	<b>8.75</b>	<b>6.56</b>
	1/4"	<b>825-0547</b>	<b>9.95</b>	<b>7.46</b>



### 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).

Shape	Size	Item#	Each Prices	
			1-11	12+
Round	1/8" w/point	<b>825-0005</b>	<b>\$3.33</b>	<b>\$2.77</b>
A.	3/16"	<b>825-0010*</b>	<b>4.85</b>	<b>4.04</b>
	1/4"	<b>825-0020*</b>	<b>5.95</b>	<b>4.96</b>
	3/8"	<b>825-0030</b>	<b>9.79</b>	<b>8.16</b>
	1/2"	<b>825-0040*</b>	<b>14.29</b>	<b>11.91</b>
Square	1/8" w/bevel	<b>825-0045</b>	<b>2.98</b>	<b>2.48</b>
B.	1/4"	<b>825-0060</b>	<b>4.85</b>	<b>4.04</b>
C. Rectangular	1/8" x 1/4"	<b>825-0050*</b>	<b>3.95</b>	<b>3.29</b>
	1/4" x 3/8"	<b>825-0070*</b>	<b>5.89</b>	<b>4.91</b>
	1/4" x 1/2"	<b>825-0080*</b>	<b>6.55</b>	<b>5.46</b>
	5/16" x 1"	<b>825-0110</b>	<b>11.45</b>	<b>9.54</b>
Set 1R, 18 pieces (three of each asterisked number)		<b>825-0300</b>	<b>59.50</b>	–
Set 2R, 27 pieces (three of each size except 1/8" square and round)		<b>825-0400</b>	<b>99.00</b>	–



## Weldmax 350 Microwelder

Increase mold life and reduce repair costs dramatically. This powerful microwelder allows you to repair all forms of minor mold damage quickly and easily. Uses short, controlled amperage discharges to weld metal powder, sheet or wire to molds. Produces strong, homogeneous welds, even under difficult working conditions. Made in Japan.

### Industrial Uses:

Welds all steels and stainless steels, as well as other ferrous metals. Will not weld aluminum. Suitable for use on molds and dies for plastics and rubber, die-casting molds and compression molds. Not recommended for use on press dies.

### Specifications:

Input Voltage: 120V or 230V AC, 50/60Hz  
 Consumable Power: 1,500VA  
 Control System: SCR switching system  
 Timer: Up to 200 pulses per minute  
 Output Power: 1200W  
 Output Voltage: 0-10V  
 Output Current: 0-1,600A standard; 0-700A precision  
 Auto Function: Current discharge control for tack or continuous welding  
 Dimensions: 6-1/2"W x 16-3/4"D x 15-1/8"H  
 (165 x 425 x 385mm)  
 Net Weight: 39.5 lbs. (18kg)



Accessory Set – Included with Weldmax 350



Description	Item#	Each
Weldmax 350, 120V	511-0010	\$7,850.00
Weldmax 350, 230V	511-0015	7,850.00

## PUK 3s High-Precision Arc Welder

The PUK precision welding equipment puts a whole host of possible applications at your fingertips. Welding on fittings, adding metal to a work piece, joining items prior to soldering, fixing porosity or welding seams are just a few examples. Made in Germany.

### Features:

- High frequency pulse welding
- Adding metal or welding wire is no problem with the PUK
- "Clean" welds with minimum gas consumption

### PUK 3s Upgrades:

- High-frequency pulse welding for extra power when working with silver alloys
- Expanded system memory with five different programmable slots
- Optional foot switch for manual triggering

### Mezzo Welding Microscope:

- Stereo microscope with 10x magnification + built-in LED lamp
- Automatically switches from clear setting (Luminescence DIN3) to dark setting (Obscurity DIN11) protecting eyes from the glare of the electric arc



PUK 3s Professional Plus with Mezzo Stereomicroscope

Specifications:	3s Professional	3s Professional Plus
Power Range	10–240A	9–320A
Power Settings, Std./Micro	10/10	12/10
Impulse Range, Std./Micro	4–24ms/4–8ms	4–30ms/4–12ms
Impulse Settings	5	9
Welding Speed	0.8 sec.	0.8 sec.
Inert Gas	Requires argon gas tank	Requires argon gas tank
Electrical	110V, 50/60Hz	110V, 50/60Hz
Dimensions		
Controller	10"W x 11"D x 6"H	10"W x 11"D x 6"H
Handpiece	5" long	5" long



Description	Item#	Each
PUK 3s Pro	830-0992	\$4,745.00
PUK 3s Professional Plus with Mezzo	830-0991	5,245.00
Optional Foot Switch	830-0993	99.00
Optional Argon Gas Regulator	830-0974	159.00
Replacement Electrode Tips, set of 10	830-0978	47.25

## L&R Quantrex® Ultrasonic Cleaners

### Powerful systems for effective cleaning!

Quickly removes dirt, sludge and polishing compounds from tools and parts. Ultrasonic energy reaches into the tiniest crevices to loosen and draw dirt, grease and other contaminants, Use water and the proper cleaning solution for your most difficult jobs. Each Quantrex Machine comes standard with increased power...Strength you can see as soon as you turn the unit on. Made in USA.

#### Features:

- Includes integral heating element at a preset temperature of approximately 160°F
- Durable vinyl-clad steel housing
- Stainless steel tank and lid
- 60-minute timer and drain
- EMI (electromagnetic interference)
- Premium system components and contemporary design
- Provide quiet yet strong 43 kHz cleaning action
- Backed by a 2-1/2 year manufacturer's warranty—the most comprehensive in the industry
- Available in 110V or 220V comprehensive in the industry



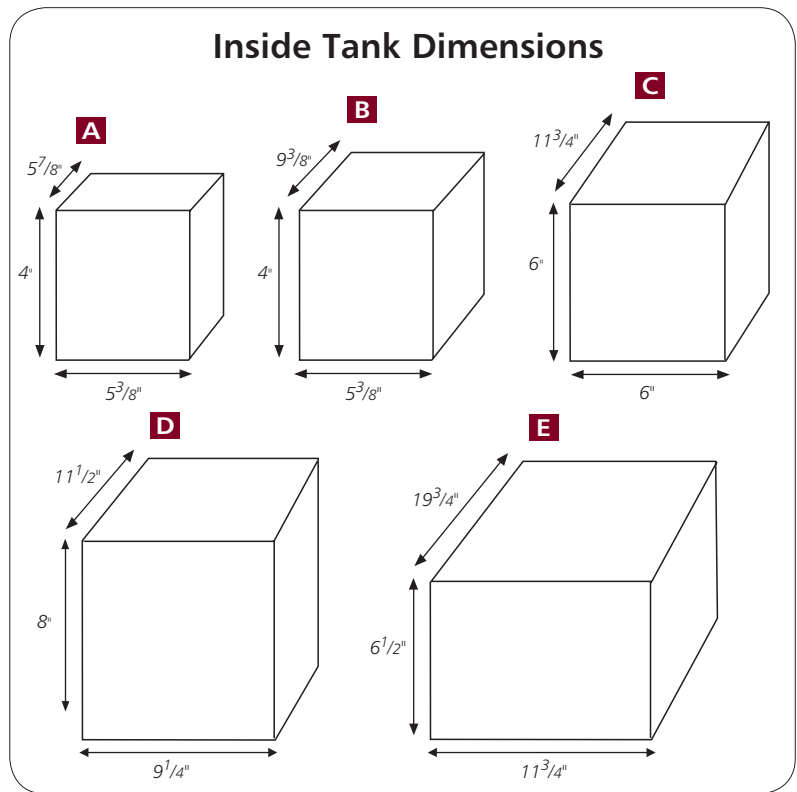
Model 90



Model 140



Model 210



Model	Capacity (qts.)	Dimensions (L x W x H)			Item#	Each
		Overall	Tank			
A. 90	2	7" x 6 <sup>3</sup> / <sub>8</sub> " x 8 <sup>3</sup> / <sub>4</sub> "	5 <sup>7</sup> / <sub>8</sub> " x 5 <sup>3</sup> / <sub>8</sub> " x 4"	<b>851-5070</b>	<b>\$279.50</b>	
B. 140	3 <sup>3</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>4</sub> " x 6 <sup>1</sup> / <sub>2</sub> " x 8 <sup>1</sup> / <sub>4</sub> "	9 <sup>3</sup> / <sub>8</sub> " x 5 <sup>3</sup> / <sub>8</sub> " x 4"	<b>851-5072</b>	<b>429.50</b>	
C. 210	6	12 <sup>3</sup> / <sub>4</sub> " x 7" x 11"	11 <sup>3</sup> / <sub>4</sub> " x 6" x 6"	<b>851-5074</b>	<b>785.00</b>	
D. 360	14.5	12 <sup>3</sup> / <sub>4</sub> " x 10 <sup>1</sup> / <sub>2</sub> " x 14 <sup>1</sup> / <sub>4</sub> "	11 <sup>1</sup> / <sub>2</sub> " x 9 <sup>1</sup> / <sub>4</sub> " x 8"	<b>851-5094</b>	<b>1,270.00</b>	
E. 650	26	21 <sup>3</sup> / <sub>4</sub> " x 13 <sup>3</sup> / <sub>4</sub> " x 13 <sup>1</sup> / <sub>2</sub> "	19 <sup>3</sup> / <sub>4</sub> " x 11 <sup>3</sup> / <sub>4</sub> " x 6 <sup>1</sup> / <sub>2</sub> "	<b>851-5077</b>	<b>2,175.00</b>	

## Dino-Lite Digital Microscopes

Affordable, compact digital microscopes for a wide range of assembly, repair, inspection and documentation applications.

### Features:

- Digital camera with powerful magnification capabilities (up to 220X) and remarkable color resolution
- DinoCapture imaging software for capturing both pictures and videos of workpieces
- Micro-Touch trigger mechanism for shooting without a mouse
- 8 ultra-bright LEDs for strong yet clean lighting
- Lightweight 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

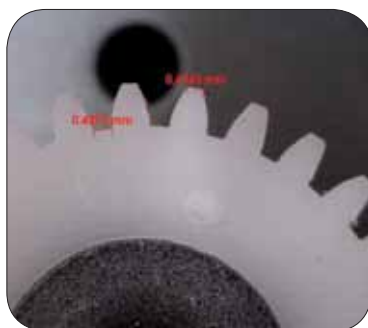


### Specifications:

Resolution: 1.3 MP (1280 x 1024)  
 Illumination: 8 white LEDs  
 Frame Rate: Up to 30fps  
 File Format: JPEG, BMP, AVI  
 Dimensions: 1 1/4 "D x 4"L

### Computer Requirements:

- Intel Pentium 4 PC with 1.5 GHz processor running Windows 98 SE or later or Mac running OS X 10.2 or later
- 1512 MB RAM
- CD-ROM drive
- 16-bit color monitor
- USB 2.0 port



Images taken with Dino-Lite

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.

**AD4113TL** boasts enhanced working distance (up to 4" more distance between lens and subject) and removable nose cone, which can be swapped with the optional 90° view adapter to look into tight areas with ease. Also includes new locking magnification dial.

The economical **AM4012N Analog** model plugs directly into a TV/monitor via a component style plug. Does not require the use of a computer and allows a live image feed, however does not capture photos, video, or measurements. Resolution is 510 x 496 pixels, and has 8 LED's powered by AC adapter (included).

Model	Zoom	Measuring* Software	Polarizing** Filter	Enhanced*** Working Distance	Item#	Each
AM411T	10–220X	No	No	No	<b>810-0086</b>	<b>\$329.00</b>
AM413T	10–220X	Yes	No	No	<b>810-0094</b>	<b>399.00</b>
AD4113TL	10–92X	Yes	No	Yes	<b>810-0092</b>	<b>489.00</b>
AM413ZTS	10–220X	Yes	Yes	No	<b>810-0099</b>	<b>499.00</b>
AM4012N Analog	10–200X	No	No	No	<b>810-0097</b>	<b>249.00</b>
Dino-Light Gooseneck Stand					<b>810-0090</b>	<b>49.00</b>
Dino-Light Tabletop Stand					<b>810-0091</b>	<b>99.00</b>
90° View Adapter for AD413TL					<b>810-0093</b>	<b>59.00</b>

\*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.

## FINISHING STONE CHART

### Diemaker Stones

• The most commonly used finishing stone for most applications. It is a natural, porous, crystalline stone that is highly resistant to wear and tear. It is available in a variety of grits and is the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### EDM Stones

• EDM stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### EDM Blue Stones

• EDM Blue stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### Oil-Treated Stones

• Oil-treated stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### Moldmaker Stones

• Moldmaker stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### Moldmaker Plus Stones

• Moldmaker Plus stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### RA Stones

• RA stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### GP Stones

• GP stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### Premium White Stones

• Premium White stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### Super Fine Stones

• Super Fine stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### Ultra-Soft Stones

• Ultra-Soft stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### Rough Out Stones

• Rough Out stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.

• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### Super Ceramic Stones

• Super Ceramic stones are made from a synthetic material that is highly resistant to wear and tear. They are available in a variety of grits and are the most economical choice for most applications.

• The grit size is indicated by the number in the top left corner of each stone's name.

• The grit size is also indicated by the number in the top right corner of each stone's name.


• The grit size is also indicated by the number in the bottom left corner of each stone's name.

• The grit size is also indicated by the number in the bottom right corner of each stone's name.

### Which Gesswein Stone Should I Use?

Stone Application Chart

Stone Type	Cast Iron	Steel	Aluminum	Brass	Copper	Titanium	Stainless Steel	Carbon Steel	Tool Steel	Hardened Steel	Cast Steel	Cast Aluminum	Cast Brass	Cast Copper	Cast Titanium	Cast Stainless Steel	Cast Carbon Steel	Cast Tool Steel	Cast Hardened Steel	
Diemaker	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
EDM	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
EDM Blue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Oil-Treated	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Moldmaker	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Moldmaker Plus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
RA	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GP	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Premium White	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Super Fine	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ultra-Soft	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rough Out	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Super Ceramic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+



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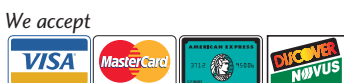

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