Pneumatic tools for creative hand engraving, stone setting and more.

**GRAVERMACH AT™**

#004-965 .................. $1,495.

*Breakthrough in Capability & Convenience.* Never before has any pneumatic power handpiece system given you so much versatility and control. An exclusive world-wide first, the new GraverMach AT features a seamless combination of hand and foot control. Using one convenient knob, you can now change from hand to foot control in less than 2 seconds. This not only helps you work more efficiently, it adds unmatched comfort and precision.

In addition to selective hand and foot control, the GraverMach AT includes all the new technology of GraverMax G8. This makes it very easy to use especially for anyone familiar with a GraverMax, GraverMate, GraverSmith or the original GraverMach. The foot control is a refined version of the proven design used by GRS for nearly three decades. Hand control is based on the innovative GRS Airtact (patent pending) air logic system that adds no moving parts to the handpiece itself. The result is a rugged and intuitive way to control handpiece power naturally by hand. But remember, whenever foot control is desired, it’s just 2 seconds away. By innovation and design, the new GraverMach AT gives you more creative power and finer control than anything else in the world.

**GRAVERMAX G8™**

#004-995 .................. $1,095.

*Best GraverMax Ever.* For over 25 years, GraverMax has earned a world-wide reputation for enriching the lives and work of engravers, jewelers and other fine craftsmen. Now there is a new GraverMax with improvements that are both substantial and subtle. The GraverMax G8 has a wider range of power and finer control from newly patented air pulse technology. It’s also quieter, more compact and more ergonomic than the original. And, today’s expanded range of handpiece options helps all users from apprentice to top professional accomplish even more in far less time.

A hallmark feature of the GraverMax system is selectable stroke speed which lets you set a precise impact rate. This gives you a more natural feel, greater comfort and better control. The new G8 expands this further with new engineering that makes all handpieces more effective over a wider stroke speed range. The result is greater confidence in use and less physical stress. Hand control can be added to GraverMax G8 anytime with an Airtact module (page 4).

**GRAVERSMITH™**

#004-895 ................... $695.

This dependable power tool offers basic pneumatic impact power for stone setting and hand engraving. It’s ideal for production setting, multiple factory installations, and craftsmen on a budget. Like other GRS power tools, GraverSmith reduces fatigue, increases production, and improves quality. It features variable stroke speed, a built-in air regulator with integral gauge, carry handle and built-in tool storage.

<table>
<thead>
<tr>
<th></th>
<th>Stroke Speed Range</th>
<th>Air Regulators</th>
<th>Handpiece Outlets</th>
<th>Auxiliary Air Outlets (for Air Turbine)</th>
<th>Hand/Foot Switch</th>
<th>Bias Control</th>
<th>Size (LxWxH)</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>GraverMach AT</td>
<td>400-8000</td>
<td>2 Precision</td>
<td>2</td>
<td>1</td>
<td>YES</td>
<td>YES</td>
<td>13&quot; x 6&quot; x 8.2&quot;</td>
<td>22.7 lbs.</td>
</tr>
<tr>
<td>GraverMax G8</td>
<td>400-8000</td>
<td>1 Precision</td>
<td>2</td>
<td>1</td>
<td>NO</td>
<td>YES</td>
<td>12&quot; x 5.2&quot; x 8.2&quot;</td>
<td>21 lbs.</td>
</tr>
<tr>
<td>GraverSmith</td>
<td>400-8000</td>
<td>1 Standard</td>
<td>1</td>
<td>N/A</td>
<td>NO</td>
<td>NO</td>
<td>10&quot; x 5.8&quot; x 9&quot;</td>
<td>17 lbs.</td>
</tr>
</tbody>
</table>

Every GraverMach AT, GraverMax G8 and GraverSmith includes a foot control and air filter. Each unit requires clean, oil-free compressed air with minimum 45 psi (3 bar) pressure and 1.4 cfm (40 liters per minute) flow. Electrical requirements are 100-240 Volts at 50-60 Hz. Handpieces sold separately; see page 3 for standard handpieces and page 4 for Airtact handpieces.
This patented Quick Change (QC) tool holding system lets you change tools in seconds without a wrench. Tool shanks can be round, square, rectangular, and even odd shapes. Complete information on page 19.

**HANDPIECES**

**GraverMach™, GraverMax™, GraverSmith™ & GraverMate™**

### QC TOOL HOLDERS (see page 19)

This patented Quick Change (QC) tool holding system lets you change tools in seconds without a wrench. Tool shanks can be round, square, rectangular, and even odd shapes. Complete information on page 19.

### HANDPIECES

**901 QC HANDPIECE**

<table>
<thead>
<tr>
<th>#004-901</th>
<th>$249.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 901 features a huge power range with fine control. The comfortable, compact shape has an adjustable side hose connection. It fits most engraving and stone setting needs including engraving, deep relief work, and bead raising/hammer setting. Body made from fully heat-treated stainless steel with an aluminum knob. Includes 6 QC Tool Holders.</td>
<td></td>
</tr>
<tr>
<td>Ship Weight, 10.4 oz. (295g); Weight, 5.4 oz. (153g); Overall Length, 4.89&quot; (124mm).</td>
<td></td>
</tr>
</tbody>
</table>

**901 Handpiece Kit**

<table>
<thead>
<tr>
<th>#004-910</th>
<th>$279.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes #901 QC Handpiece, QC Hand Handle (#004-805, see page 19), 6 QC Tool Holders, 6 steel points, 1 Glensteel graver, and QC tool tray.</td>
<td></td>
</tr>
</tbody>
</table>

**710 QC HANDPIECE**

<table>
<thead>
<tr>
<th>#004-710</th>
<th>$249.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide power range. Perfect for stone setting, hammering, and medium to deep engraving. Stainless steel construction with quiet rear exhaust. Includes 6 QC Tool Holders.</td>
<td></td>
</tr>
<tr>
<td>Ship Weight, 10.8 oz. (305g); Weight, 6.2 oz. (177g); Overall Length, 4.13&quot; (105mm).</td>
<td></td>
</tr>
</tbody>
</table>

**610 HAMMER HANDPIECE**

<table>
<thead>
<tr>
<th>#004-610</th>
<th>$219.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide power range. Great for stone setting, hammering, and medium to deep engraving. Heat-treated stainless steel construction. Set screw chuck holds square tools up to 0.10&quot; (2.5mm) and round tools to 0.13&quot; (3.3mm) diameter. Works best with the first generation GraverMax and GraverMate.</td>
<td></td>
</tr>
<tr>
<td>Ship Weight, 9.3 oz. (264g); Weight, 4.9 oz. (138g); Overall Length, 4.56&quot; (116mm).</td>
<td></td>
</tr>
</tbody>
</table>

**720 QC HANDPIECE**

<table>
<thead>
<tr>
<th>#004-720</th>
<th>$269.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powerful impact handpiece. Great for wood carving, heavy metal engraving, and hammering. Includes 6 QC Tool Holders.</td>
<td></td>
</tr>
<tr>
<td>Ship Weight, 10.4 oz. (295g); Weight, 5.4 oz. (153g); Overall Length, 4.89&quot; (124mm).</td>
<td></td>
</tr>
</tbody>
</table>
**NEW!**

AIRTACT™
Add precise and natural hand control to many GRS handpieces.

**Palm Knob Kits**
These kits include a special Airtact compatible knob that replaces the standard handpiece knob. On the knob’s palm side is a special rubber pad that “senses” your need for power, allowing the Airtact to vary the power automatically.

- **A. Monarch, black**  #004-952 ........ $59.00
- **B. Monarch, stainless steel**  #004-952SS $99.00
- **C. 901, black**  #004-953 $59.00
- **D. 901, stainless steel**  #004-953SS $99.00
- **E. Magnum, stainless steel**  #004-957SS $99.00

**Thumb/Finger Kits**
These kits let you use your thumb or finger to control the Airtact system, instead of your palm or foot.

- **F. Monarch**  #004-954 ........ $26.00
- **G. 901**  #004-955 ........ $26.00

**AIRTACT Handpieces**
These complete handpieces are fully Airtact ready with Palm Elements installed.

- **H. 901, black**  #004-901-AT ........ $295.00
- **I. 901, stainless steel**  #004-901-ATSS $329.00
- **J. Monarch, black**  #004-921-AT ........ $285.00
- **K. Monarch, stainless steel**  #004-921-ATSS $319.00
- **L. Magnum, stainless steel**  #004-940-ATSS $369.00

**AIRTACT™ Control System**
#004-935 ........ $398.00
Airact control system connects to any GraverMax, GraverMach, GraverMate or GraverSmith and replaces the normal foot throttle. The Airtact control interprets your power needs using the Touch Element you select (see list at left). Choose from palm, finger or thumb control to work the way you prefer. This patent pending system is an amazingly versatile and intuitive interface between you and your work.

**Footpod Kit for AIRTACT**
This is a convenient way to add a foot control option to the Airtact control. It’s nicely made from stainless steel and amazingly compact.

#004-956 ........ $29.00

**Shortened 901 & Magnum Handpiece Barrels**
Some users want shorter handpieces, so these shortened barrels are an easy way to reduce overall handpiece length. They’re made from the same hardened stainless steel as standard barrels. The 901 version is 0.18” shorter; the Magnum is 0.10” shorter.

- **901 Barrel**  #044-142 ........ $79.60
- **Magnum Barrel**  #044-163 ........ $86.20

**AIRTACT Hook-up Kits**
If you have an older GraverMax or GraverMate, this kit provides simple Airtact installation. It’s unnecessary for the newer GraverMach or GraverSmith SC.

- **GraverMax Kit**  #004-971 ........ $39.95
- **GraverMate Kit**  #004-972 ........ $39.95

**Specifications**
- **Length:** 7” (177.8mm)
- **Width:** 3.5” (88.9mm)
- **Height:** 4.5” (114.3mm)
- **Unit Weight:** 4.75 lbs. (2.15kg)
- **Ship Weight:** 5.95 lbs. (2.7kg)
- **Warranty:** 2 years
GRAVERMEISTER™ & HANDPIECES

The original pneumatic system that created today's power-assisted hand engraving.

GRAVERMEISTER™
#001-842 ............... $1,279.00
The GraverMeister is the original invention that was patented as a technological breakthrough in power engraving tools. This machine is an air tool that makes its own special air pulses; no external compressor is needed. A foot pedal lets you vary the power as you work. The impact rate is adjustable from 1,600 to 2,400 impacts per minute. With the GraverMeister, you can engrave deeply in steel and delicately in gold, carve wood, set large and small stones, texture metal quickly, sculpt stone, and more. Includes built-in compressor unit, foot control, and four tools (2 small steel points, 1 onglette graver & 1 square Glensteel graver). 110V only.

HIGH SPEED VALVE KIT
#001-893 ................. $208.00
Updates previous GraverMeisters to the faster 1,600-2,400 impacts per minute for smoother cuts, longer tool life, and reduced work time.

QUICK DISCONNECT KIT
#004-615 ............... $26.95
Switch handpieces quickly. Includes one main body and two connectors.

QC LARGE HANDPIECE
#004-509-QC ........... $218.00
The most powerful GraverMeister handpiece available. Great for wood carving, heavy metal engraving, or hammering. Includes 6 QC Tool Holders. Outer Diameter: 0.81" (20.6mm). Ship Weight, 9.2 oz. (262g); Weight, 5.3 oz. (151g); Overall Length, 5.41" (137mm).

QC 915 HANDPIECE
#004-915 ................ $249.00
The comfortable, compact shape has an adjustable side hose connection. It meets most engraving and stone setting needs, including engraving, deep relief work, and bead raising/hammer setting. Body made from fully heat-treated stainless steel with an aluminum knob. Includes 6 QC Tool Holders. Ship Weight, 7.0 oz. (199g); Weight, 2.6 oz. (73g); Overall Length, 2.5" (63.5mm).

QC 712 HANDPIECE
#004-712 ................ $249.00
Wide power range. Perfect for stone setting, hammering, and medium to deep engraving. Stainless steel construction with quiet rear exhaust. Includes 6 QC Tool Holders. Ship Weight, 10.8 oz. (305g); Weight, 6.2 oz. (177g); Overall Length, 4.13" (105mm).

QC TOOL HOLDERS (see page 19)
This patented Quick Change (QC) tool holding system lets you change tools in seconds without a wrench. Tool shanks can be round, square, rectangular, and even odd shapes. Complete information on page 19.

UPGRADE YOUR GRAVERMAX™ OR GRAVERMATE™

UPGRADE YOUR GRAVERMAX™ OR GRAVERMATE™

PRECISION REMOTE AIR REGULATOR
#004-930 ................ $159.00
This kit uses a special laboratory-grade regulator that maintains air pressure much better than other regulators, including the standard unit built into the GraverMax and GraverMate. It will allow your handpiece to start at precisely the same foot pedal position time after time and deliver power smoothly across a wider range of stroke speeds. This kit includes a stainless steel bracket that mounts almost anywhere.

PROGRESSIVE FOOT CONTROL
#004-519PRO ............ $109.75
This foot control gives you extremely smooth start up and excellent control for bulino, banknote engraving, and fine shading PLUS an amazingly wide power range. It does this by combining a control zone and a power zone in one seamless foot control. You’ll instantly benefit from more confident engraving, stone setting, and other fine skills. For GraverMax or GraverMate only.

GRAVERMAX OR GRAVERMATE UPGRADE KIT
#004-950 ................ $229.00
Includes the Progressive Foot Control (#004-519PRO) and the Precision Remote Air Regulator (#004-930).
Tools for jewelry making, engraving, fine wood carving, and more.

GRS ULTRA 850 HIGH-SPEED ROTARY HANDPIECE
#004-850 .................... $389.00
This rotary handpiece turns between 300,000 and 400,000 RPM for effortless engraving, decorating, and grinding on almost any material. It is free from vibration and noise and has a contoured shape for enhanced comfort. No lubrication required. It only accepts 1/16" (1.6mm) diameter bur shanks. Includes: handpiece, tubing, connectors, carbide bur, and instructions. Requires at least 1.4 cfm at 30-35 psi max (38 liter per minute at 2-2.5 bar). Connects directly to GraverMach AT, GraverMax G8 or any regulated air supply (35 psi maximum pressure). Length: 5" (127mm). Weight: 3 oz. (85.05g).

ULTRA 850 SYSTEM WITH GRS AIR FOOT CONTROL
#004-861 .................... $549.00
Lets you operate the 850 Rotary Air Handpiece with your foot. Connects easily to any GraverMach, GraverMax, GraverMate or a source of compressed air. Includes filter/regulator stand with tool storage, standard foot control, 850 Handpiece, air tubing and connectors.

GRS Air Foot Control Only
#004-863 .................... $89.00

ULTRA 850 SYSTEM WITH SYSTEM 3 FOOT CONTROL
#004-914 .................... $569.00
The System 3 foot control option gives you much finer speed regulation for the 850 Rotary Handpiece than a standard foot control. Connects easily to any GraverMach, GraverMax, GraverMate or a source of compressed air. Includes filter/regulator stand with tool storage, System 3 foot control, 850 Handpiece, air tubing and connectors.

E-MAX ELECTRIC ROTARY HANDPIECE SYSTEM
#002-910-EMAX .............. $980.00
E-MAX is a micro-motor system from NSK, a world leader in micro-grinding technology. It features a digital display of handpiece RPM for greater efficiency and safety. The control unit is compact, portable, and rugged. Power can be turned on and off from the “smart switch” located on the rear of the handpiece. Has a smooth, powerful, and high-torque motor (advanced DC technology) with precise speed control built into the handpiece. Eliminates the whip and vibration of flex-shaft systems. Includes: control unit, 1,000 - 35,000 rpm handpiece motor, QC chuck with 3/32" & 1/8" collet. (120 Volt, 60 Hz, 1.0 Amp or 230 Volt, 50 Hz)

E-Max Electric Rotary Handpiece System, 230V
#002-910-EMAX230 ........ $1,130.00
Extra Collets: 1/16" #002-924 .................... $65.00
Extra Collets: 3/32" #002-925 .................... $54.00
Extra Collets: 1/8" #002-926 .................... $54.60
Foot Control #002-912 .................... $70.00
Torque Multiplier/ Speed Reducer, 4:1 #002-934 .................... $107.00

SYSTEM 3
System 3 uses a special piston and port handpiece design that self oscillates using normal compressed air. This makes it simpler and less expensive than the other GRS pneumatic power tools. It is comfortable, lightweight and delivers controlled impact power allowing you to engrave metal, set stones, hammer, texture & stipple and carve wood. The System 3 handpiece stays cool in continuous use and utilizes the versatile GRS QC Tool System.

SYSTEM 3 STANDARD PACKAGE
#004-780 .................... $447.00
Includes handpiece, foot control, air filter regulator, 3 QC Tool Holders, and 6 steel points.

SYSTEM 3 DELUXE PACKAGE
#004-781 .................... $488.00
Includes handpiece, foot control, air filter regulator, hand graver handle, 6 QC Tool Holders, 8 steel points, and 2 gravers.

SYSTEM 3 HANDPIECE
#004-760 .................... $279.00
Works with compressed air, see specs. Length: 4.5" (115mm); Weight: 3.5 oz. (100g).

SYSTEM 3 FOOT CONTROL
#004-771 .................... $99.00
Allows proportional control.

AIR FILTER/REGULATOR
#004-762 .................... $69.00
This filter/regulator can be used in any application where air pressure needs to be controlled and filtered. Includes a 5-micron filter element, hose connections, and bracket.

SYSTEM 3 SPECIFICATIONS
Requires compressed air, 1 cfm at 60 psi minimum (30 liters per minute at 3.5 bar minimum)
OIL FREE AIR COMPRESSORS WITH HOOK-UP KITS
These industrial compressors are a proven design that needs no oil, ever. The T-617 is reasonably quiet and powers any impact handpiece manufactured for GRS engraving systems and the System 3. Each compressor has a safety-approved tank and automatic pressure switch. Each unit is a solid investment and comes with 50 feet of air tubing and fittings for GRS air tools.

A. T-617
#004-682 ........................ $489.
Delivers 0.90 cfm at 100 psi max. 1/2 HP, 115 Volt, 60 Hz, 4.2 Amp. Weight: 29.3 lbs (13kg). Size: 16” x 16” (406mm x 406mm). Ship Weight: 33 lbs. (15kg). Noise: Approximately 60 dB. Includes #004-527 Hook-up kit. NOTE: Not to be used with the 850 Handpiece.

B. T-30
#004-526 ........................ $598.
Delivers 2.75 cfm at 100 psi max. 1.25 HP, 115 Volt, 60 Hz, 12.0 Amp. Weight: 59.6 lbs (27kg). Size: 15” x 20” (381mm x 508mm). Ship Weight: 60 lbs. (27.2kg). Noise: Approximately 75 dB. Includes #004-527 Hook-up kit.

C. VAL-AIR BY SILENTAIRE TECHNOLOGY
#004-678 ........................ $1,199.
The GRS Premium Air Station is virtually silent because it has the same type of enclosed, oil recirculating compressor as a refrigerator. It’s perfect for apartments, mall stores, bedrooms, or anywhere air compressor noise is undesirable. The Val-Air compressor, which is an upgraded version of the Sil-Air, comes equipped with the necessary options to protect your pneumatic engraving and stone setting equipment from unnecessary wear and damage. For the users benefit, it is equipped with the following:
- Auxiliary cooling fan will keep the compressor cool during sustained use.
- Pump features aluminum heads with cooling fins for a longer life.
- Internally painted tank will help resist corrosion.
- In-line coalescing filter system protects precision air tools

Includes Hook-Up Kit (#004-527), which includes 50 feet of air tubing and fittings. Delivers 1.5 cfm at 100 psi max. 1/2 HP, 115 Volt, 60 Hz, 4.9 Amp. Noise: Approximately 40 dB. Weight: 64.8 lbs. (29.3kg). Ship Weight: 66 lbs. (30kg). Size: 14” x 24” (355mm x 610mm).

SILENTAIRE COMPRESSOR OIL, 24 FL. OZ.
#022-163 ........................ $19.80

COMPRESSOR FAN
#004-693 ........................ $129.60
This easy addition keeps Sil-Air compressors extra cool. The computer-grade quiet fan is enclosed in a secure steel housing that clamps onto the carrying handle and installs in seconds. Recommended for hot environments or high air use applications.

AIR FILTER/OIL REMOVAL KIT
#004-579 ........................ $98.00
Removes dirt and oil contamination from compressed air. Required if you are using an oil-type compressor with your GRS equipment.

HOOK-UP KIT FOR COMPRESSORS
#004-527 ........................ $37.40
NOTE: A Hook-Up Kit is supplied with any compressor purchased from GRS. Kit includes: 50’ (15.24m), 1/4” (6.35mm) hose and 1/4 brass fittings.
WORK HOLDING & ACCESSORIES
The world's most versatile line of premium vises for engravers & jewelers.

GRS MICROBLOCK BALL VISE
#003-683 ............... $228.00
Designed for a unique combination of solid work support in a small and maneuverable size. The self-centering jaw system is perfect for stone setting, small engravings, and other precision work. An adjustable internal brake system lets the user choose the amount of rotational resistance from free to locked. Its low profile is suited for microscope work. Package includes 4 pins, 2 wrenches, 6 screws, plastic base, 1 plastic hex key, and Thermo-Loc Sample Kit.
Microblock with 30-Piece Attachment Set
#003-684 ............... $288.00

GRS STANDARD BLOCK
#003-530 ............... $388.00
The GRS Standard Block combines outstanding quality and value. Inside is a double ball bearing system for smooth rotation without looseness or wear. A brake allows you to control the rotational resistance. Made from solid stainless steel. The black jaws and satin finish save your eyes from glare and strain. Package includes: upper jaw plates, 4 pins, base, 1 plastic hex key, and wrench.
Standard Block with 30-Piece Attachment Set
#003-531 ............... $448.00

GRS LOW PROFILE VISE
#003-615 ............... $558.00
Stability and Reduced Height
Some work needs a lower vise height. The Low Profile model offers GRS strength and quality in a shorter model. A popular use is under a microscope where 6" (150mm) of space is needed between the microscope and the work. Using other blocks, the eye level of the user can be too high. The Low Profile Vise has the same jaw size and capacity as the Magnablock, yet is 1.5" (38.1mm) shorter. Package includes upper jaw plates, 5 pins, base, 1 plastic hex key, and wrench. NOTE: Rotation for this block is only the top half of the block. In order to have rotation of the entire block, the Turntable Base (#003-612-V2) must be used.

MAGNABLOCK
#003-021 ............... $498.00
GRS Magnablock gives you outstanding quality, strength, and convenience. This extra-heavy block adds more stability to your work, especially when using power tools or chasing hammers. Inside is a massive ball and roller-bearing system that turns smoothly and prevents internal wear. It includes the GRS rotational brake which lets you adjust the rotational resistance from free to locked. All surfaces are finished for low glare to reduce eye strain and machined from solid stainless steel. Package includes upper jaw plates, 5 pins, base, 1 plastic hex key, and wrench.
Magnablock with 30-Piece Attachment Set
#003-522 ............... $549.00

GRS POSITIONING VISE
#003-541 ............... $748.00
Made especially for microscope work
This unique vise has many Magnablock similarities and one huge difference: you can reposition its center of rotation. Why is this important? Under a microscope, your work must stay in the field of view as you rotate the vise. The extra weight and larger base provide even more stability. Package includes upper jaw plates, 5 pins, base, 1 plastic hex key, and wrench.

SPECIFICATIONS

GRS MICROBLOCK™
Block Weight: 4 lbs. (1.8kg)
Ball Diameter: 3.1" (80mm)
Jaw Width: 1.8" (46mm)
Jaw Height: 0.87" (22mm)
Max. Opening: 2" (50mm)
Ship Weight: 4.25 lbs. (1.92kg)

GRS STANDARD BLOCK
Block Weight: 19 lbs. (8.6kg)
Ball Diameter: 5.12" (130mm)
Jaw Width: 2.5" (64mm)
Jaw Height: 1.5" (38mm)
Max. Opening: 3" (76mm)
Ship Weight: 21 lbs. (9.5kg)

GRS LOW PROFILE VISE
Block Weight: 20.25 lbs. (9.19kg)
Ball Diameter: 6.125" (147mm)
Jaw Width: 3" (76mm)
Jaw Height: 1.8" (46mm)
Max. Opening: 3.5" (89mm)
Ship Weight: 24.2 lbs. (10.98kg)

MAGNABLOCK
Block Weight: 30 lbs. (13.7kg)
Ball Diameter: 5.8" (147mm)
Jaw Width: 3" (76mm)
Jaw Height: 1.8" (46mm)
Max. Opening: 3.5" (89mm)
Ship Weight: 33 lbs. (15kg)

GRS POSITIONING VISE
Block Weight: 42 lbs. (19.1kg)
Ball Diameter: 7.1" (180mm)
Jaw Width: 3" (76mm)
Jaw Height: 1.8" (46mm)
Max. Opening: 3.5" (89mm)
Ship Weight: 41 lbs. (18.6kg)
WORK HOLDING & ACCESSORIES

TURNTABLE BASE
#003-616-V2 ............... $228.00
The 10” (254mm) diameter turntable has a unique bearing system coupled between the two flat ground steel plates. A removable centering post lets you position the turntable directly under the microscope. Also includes: Teflon Pad (#044-165) and Turntable Base Brake Kit (#003-343).

TEFLON PAD FOR GRS VISES
#044-165 .................. $14.95
Place between the tire and turntable surface to freely slide the vise to any location on the turntable. Designed for repositioning larger pieces under the microscope.

TURNTABLE BASE BRAKE KIT
#003-343 .................. $15.95
Allows custom rotation speed for the GRS Turntable Base (#003-616-V2).

TURNTABLE MOUNT KIT
#004-672 .................. $15.95
Needed to attach turntable to large block shelf.

BALL VISE 1/4” HEX KEY
#003-662 .................. $15.60
The knurled aluminum handle has a low-profile design so it can be left inserted in the block chuck while working. Fits all GRS vises except the Microblock.

KNIFEMAKER’S CONTOUR VISE
#003-622 .................. $89.00
In just seconds, you can hold knives securely for engraving and other detail work with this vise. Chain-like linear jaws conform to unusual and compound shapes. Lined with a special hard rubber ribbon, the jaws grip securely without clamping force. It mounts in any vise, including all GRS vises.

CONTOUR VISE JAWS
#003-623 .................. $59.00
An innovative and safe way to hold irregularly-shaped parts. Pins fit in the top holes of any of the larger GRS vises. Using minimal clamping force, the hard rubber-lined jaws automatically conform to grip almost any shape. Comes in 2 pieces.

NEW!

30-PIECE ATTACHMENT SET
#003-520 .................. $78.00
This set helps you instantly solve the problems of holding, so you can start working. Includes: leather-faced ring clamps, variety of pins, and other clamps that fit the upper jaw plate of every GRS vise.

BLOCK SHELVES & ACCESSORIES
This system allows the top of the block to be the same height as the bench.

A. STANDARD BLOCK SHELF
#004-578 .................. $36.95
Recommended for use with the Standard Block or Magnablock. This block shelf’s height adjust ability is 1” (24.5mm).

B. LARGE BLOCK SHELF, ADJUSTABLE
#004-665 .................. $68.00
Recommended for use with the Positioning Vise or any vise used with the Turntable Base. With the Adjustable Bracket, this shelf has the height adjust ability of 5” (127mm).

C. OPTIONAL MOUNTING ADAPTER
#004-559 .................. $23.00

D. FIXED MOUNTING PLATE
#004-557 .................. $15.98

E. BLOCK VISE SHELF SUPPORT
#003-649 .................. $46.95
Adds stability that helps eliminate vibration.

SPECIFICATIONS

KNIFEMAKER’S CONTOUR VISE
Overall Size: 3” x 5” (76.2mm x 127mm)
Holds Up To: 0.875” (22.225mm) wide
Clamping Area: 1.5” (38.1mm) wide

STANDARD BLOCK SHELF
7” x 7” x 7” (177.8mm x 177.8mm x 177.8mm)

LARGE BLOCK SHELF
7” x 8.25” x 7” (177.8mm x 209.6mm x 177.8mm)

BLOCK VISE SHELF SUPPORT
Minimum Height: 18.75” (476mm)
Maximum Height: 34” (864mm)
WORK HOLDING & ACCESSORIES

INSIDE RING HOLDER
These fixtures securely hold rings from the inside, giving you easy access for stone setting and ring engraving. Use in any GRS block and most vises. Both include holder body, 7 collets, expansion cone, screw, and wrench.
Horizontal Inside Ring Holder
#004-679 .................. $43.95
Vertical Inside Ring Holder
#004-847 .................. $39.95

I.D. SCOPE RING FIXTURE
#004-699 .................. $49.00
This holder is similar to the Horizontal Ring Holder (#004-679) but larger to hold rifle scope rings from the inside. It works with all GRS blocks and most vises. Fits 1” and 30mm I.D. scope rings. Package includes two collets, expansion cone, screw, and wrench.

EXTRA COLLET SET
#004-616 .................. $29.95
Set is compatible with the Horizontal and Vertical Inside Ring Holders (#004-679 and #004-847) and BenchMate Inside Ring Mandrel (#004-589, page 12).

HANDHELD RING CLAMP
#004-625 .................. $42.95
Replaceable jaw inserts hold rings securely and without marring for stone setting, filing, and finishing. It is similar to the BenchMate holder, but lighter for hand use. Body and knob are machined from solid aluminum, jaw assembly is steel.

INSIDE RING HOLDER
#004-697 .................. $49.00
Unique holder secures rings, allowing easy access to the inside. It can be hand held or mounted in a vise. Made from solid steel to last a lifetime.

LEATHER PADS
#003-609 .................. $5.85
Thick, top-grain leather pads are perfect for safely holding parts in any engraving block or vise. You can also use them with diamond spray for polishing gravers and tools. Set of 2 leather pads, 2” X 3” (50.8mm x 76.2mm).

MULTI-PURPOSE VISE
#004-628 .................. $118.95
The Multi-Purpose Vise uses the versatile BenchMate fixed mounting plate. Unlike other bench vises, you can adjust it to any angle because it tilts and rotates on two axes. It’s made from steel for rugged dependability. Includes vise assembly and wrench. Jaws are 2.25” (57mm) wide, 1.6” (40mm) tall, and opens to 1.5” (37mm).

MULTI-PURPOSE VISE ATTACHMENTS
#003-520MPV .................. $98.00
30-Piece Attachment Set and 2 pin plate assemblies.

PITCHBOWL
#003-022 .................. $58.00
PITCHCUP
#004-660 .................. $22.95
The pitchbowl and pitchcup have a special material that softens when heated to hold small, fragile, or irregular pieces for engraving, setting, and finishing. Pitchbowl: 5” x 3.5” x 0.5” (127mm x 88.9mm x 12.7mm). Pitchcup: 2” (50mm) diameter. Pitchcup only, no pitch
#004-659 .................. $14.95
Pitch, 1 lb.
#002-230 .................. $11.40

SUPER PINS
Heavy-duty plastic over steel pins fit the jaw holes of any GRS vise (excluding the Microblock). Ideal for holding larger items without marring.
Set of 2, 3/8” shank
#003-547 .................. $4.90
Set of 4, 1/4” shank
#003-546 .................. $8.40

RING CLAMPS
#003-550 .................. $19.90
Leather-faced ring clamps let GRS vises hold rings securely to set stones, bright cut, engrave, and finish. These clamps also come with the 30-Piece Attachment Set.
HEAT • MOLD • HOLD
Rigid at Room Temperature, Pliable when Heated
Thermo-Loc is a special reusable polymer material that is rigid at room temperature yet becomes pliable when heated. Developed to hold irregular shaped or fragile items. Thermo-Loc can be used on firearms, knives, wood, and more. Supplied in convenient 6” (150mm) long sticks, Thermo-Loc is a medium gray color designed to reduce eye strain under work lights. It is non-toxic and biodegradable.

**Thermo-Loc™, 0.5 lb. (0.23kg)**
#003-664 .................. $15.95

**Thermo-Loc™, 1.0 lb. (0.45kg)**
#003-665 .................. $26.95

**Thermo-Loc™, 5 lb. (2.7kg)**
#003-666 ................. $108.95

Thermo-Loc softens with heat to a pliable clay-like consistency that you can form around your work. At room temperature, it hardens and holds securely. Supplied in 6” (150mm) long reusable sticks.

**Thermo-Loc™ Starter Kit**
#003-667 .................. $32.95
Includes 6” (152.4mm) square PTFE/ Teflon® pad for microwave use and 1 lb. of Thermo-Loc. (1 lb. = approximately 60 sticks)

**PTFE/TEFLON™ Pad**
#003-291 .................. $11.80

**Thermo-Loc™ Jaw Set**
This set includes stainless steel master jaws that fit onto GRS vises. Mating aluminum bonding strips are then bolted to the master jaws. Thermo-Loc is applied around the bonding strips and formed around a workpiece. The result is a custom set of jaws that perfectly fit the workpiece contour. Each jaw set includes four aluminum bonding strips.

**Jaw Set for Large GRS Vises**
#003-669 .................. $68.00
Use with the Magnablock (#003-021), Positioning Vise (#003-541), and Low Profile Vise (#003-615).

**Jaw Set for Standard GRS Vises**
#003-668 .................. $68.00
For use with the GRS Standard Block (#003-530) and Multi-Purpose Vise (#004-628).

**Thermo-Loc™ Versa-Clamp Kit**
#003-688 .................. $39.50
This new kit will help you make custom two-part jaws from Thermo-Loc to hold special pieces for engraving or stone setting. It includes two sizes of aluminum angles to produce smooth and accurate Thermo-Loc fixtures using almost any vise. Special center bars separate and align the jaw halves to each other. A set of three different length bushing inserts controls jaw thickness and uniformity. This unique kit simplifies workholding like never before.

**Thermo-Loc™ Form Block**
#003-699 .................. $26.95
The smaller cavities are to create fixed holders for items such as pendants or fobs. With the divider, a flexible hinged holder can be made allowing even longer items, such as bracelets, to be held securely and then engraved without chatter. These custom workholding fixtures will work with most engraving blocks and vises.

**Micro Hot Air System, 115V, 60 Hz**
#006-520 ................. $198.00
Originally designed for electronic hot air soldering, this system has many useful applications including working with Thermo-Loc materials, welding and repairing many types of plastics, and more. It supplies precisely controlled hot air from 210-900°F (100-480°C). Air flow is also adjustable from almost none to full flow. It’s truly pinpoint heat. Includes three interchangeable round nozzles: 0.1”, 0.17”, and 0.3” diameters (2.5mm, 4.4mm and 7.2mm).

**Micro Hot Air System, 230V, 50 Hz**
#006-521 ................. $238.00

**Work Holding Plate Assembly**
#003-698 .................. $31.95
Originally designed to assist the Scrimshaw artists at the GRS Training Center to hold ivory panels for engraving, this unique tool uses modeling clay (#022-290, page 22) or Thermo-Loc that can be pressed into the milled slots to gently hold a workpiece without damage. Perfect for detailing thin, light pieces that cannot be held by themselves in a ball vise. Diameter: 6”.

**NEW!**

**THERMO-LOC™ & ACCESSORIES**
Safe work holding made easy.

**NEW!**

**NEW!**
BENCHMATE™ & ACCESSORIES
Advanced Work Support System for Jewelers.

Jewelers work faster and make finer jewelry with the BenchMate Work Support System. This advanced family of tools does it all. Stone setting, jewelry repair, soldering and fabrication have never been easier. It’s intelligently designed, ruggedly built and used by the best jewelers throughout the world. BenchMate mounts easily to your existing bench in minutes. You’ll love it every day.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Code</th>
<th>Price</th>
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<tbody>
<tr>
<td>A</td>
<td>BASIC BENCHMATE™ HOLDER (See packages R, S, T, U)</td>
<td>#004-559</td>
<td>$23.00</td>
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<tr>
<td>B</td>
<td>OPTIONAL MOUNTING ADAPTER</td>
<td>#004-559</td>
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<td></td>
<td>For attaching Fixed Mounting Plate to curved or thin bench tops.</td>
<td></td>
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<tr>
<td>C</td>
<td>FIXED MOUNTING PLATE</td>
<td>#004-557</td>
<td>$15.98</td>
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<td>D</td>
<td>ADJUSTABLE HEIGHT BRACKET</td>
<td>#004-666</td>
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<td>Includes fixed mounting plate that can be lowered up to 4” in 1/2” increments.</td>
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<td>E</td>
<td>NARROW SOLDERING FINGERS</td>
<td>#004-552</td>
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<td>F</td>
<td>WIDE SOLDERING FINGERS</td>
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<td>G</td>
<td>SHELLAC PAD</td>
<td>#004-106</td>
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<td>H</td>
<td>PITCHCUP</td>
<td>#004-660</td>
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<td>Filled with heat-meltable material to hold small or fragile pieces.</td>
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<td>I</td>
<td>INSULATED SOLDERING CLAMP</td>
<td>#004-592</td>
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<td>J</td>
<td>EXTRA PLASTIC JAWS FOR BENCHMATE™, PACKAGE OF 10</td>
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<td>Wood Replacement Pin</td>
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<td>L</td>
<td>THIRD-HAND ATTACHMENT</td>
<td>#004-546</td>
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<td>M</td>
<td>SHORT THIRD-HAND ATTACHMENT</td>
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<td>STANDARD VISE SHELF (Vise not included)</td>
<td>#004-578</td>
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<td>O</td>
<td>4” (100mm) SOLDERING STATION</td>
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<td>P</td>
<td>SAWING PLATE</td>
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<td>Sawing Plate, Left Handed</td>
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<td>Left-Handed</td>
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<td>Basic BenchMate holder, shellac pad, fixed mounting plate, and hardware.</td>
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<td>With Optional Mounting Adapter</td>
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<td>BENCHMATE™ DELUXE</td>
<td>#004-555</td>
<td>$269.00</td>
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<td>Basic BenchMate holder, shellac pad, narrow and wide solder fingers, third-hand attachment, bench pin kit, fixed mounting plate, and hardware.</td>
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<td>#004-603</td>
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<td>BENCHMATE™ PLUS</td>
<td>#004-571</td>
<td>$328.00</td>
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<td>Basic BenchMate holder, shellac pad, narrow and wide solder fingers, two third-hand attachments, bench pin kit, 4” (100mm) solder station, fixed mounting plate, and hardware.</td>
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<td>With Optional Mounting Adapter</td>
<td>#004-604</td>
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<td>SETTER’S PACKAGE</td>
<td>#004-674</td>
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<td>Basic BenchMate holder, shellac pad, bench pin kit, inside ring holder, fixed mounting plate, and hardware.</td>
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<tr>
<td></td>
<td>With Optional Mounting Adapter</td>
<td>#004-683</td>
<td>$310.00</td>
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</tbody>
</table>
THIRD-HANDS AND SOLDERING STATIONS

GRS Metal Former

GRS Metal Former #004-725 ................. $199.00

Easily shape “C” style bracelets with the GRS Metal Former. Form flat strips of metal to a perfect “C” shape after you have engraved your design. The die seat is a soft alloy material that supports pressure from the die, but does not distort your engraving work. The die seat material can be reformed by heating, when necessary. The unit comes with two different fixed punch sizes and one adjustable die cavity. Metal strips that are 0.25” (6.35mm) up to 1.25” (31.75mm) wide can be formed. Recommended for soft metals such as copper, silver, and gold alloys at a thickness of 0.030” to 0.080” (0.76mm to 2.03mm or 22 to 14 gage).

URETHANE DIE CUP & FLAT DIE SET

URETHANE DIE CUP & FLAT DIE SET #004-726 .................. $38.00

Optional accessory for the GRS Metal Former (#004-725). Has a conformable urethane die cup and a flat forming die for low dome and other bracelets with flat inside surfaces. It also can be used for non-traditional jewelry metals including some stainless steels up to 0.080” (2mm or 14 gage) thick.

GRS Ring Size Cutter (USA/BRITISH)

GRS Ring Size Cutter (USA/BRITISH) #004-642 ................. $268.00

For gold and silver rings only.

The GRS Ring Size Cutter simplifies ring sizing by removing an exact amount of ring shank. The cut is precisely to size and always parallel so soldering is neat and fast. You’ll never have an uneven or wrong size cut, and you will have pieces leftover that can be used later for upsizing. GRS Ring Size Cutter, USA Model, includes 7 cutters from USA/British size 1/2 to 2, in 1/4 increments.

GRS Metric Right Size Cutter

GRS Metric Right Size Cutter #004-643 ................. $268.00

Includes 9 cutters from 1mm to 5mm, in 0.5mm increments.

REPLACEMENT USA/BRITISH CUTTER KITS

REPLACEMENT USA/BRITISH CUTTER KITS #004-585 .................. $59.50

Includes 7 cutters.

REPLACEMENT METRIC CUTTER KITS

REPLACEMENT METRIC CUTTER KITS #004-600 .................. $59.50

Includes 9 cutters.

OPTIONAL TUNGSTEN JAW POINT

OPTIONAL TUNGSTEN JAW POINT #004-097TUNG .......... $8.90 ea.

For high temperature work including platinum.

Extra Standard Jaw Point #004-097 ................. $3.97 ea.
Precisely sharpen gravers and tools that last longer and make nicer cuts.

**DUAL ANGLE SHARPENING FIXTURE**

#003-570 .................. $198.00

The front end features an accurate and secure locating seat for gravers and a wide variety of tools. With two degree dials, you can set the elevation and rotation angle. The vertical locating post is made from precision ground stainless steel as is the mating slide collar.

**Head Only (no post)**

#003-571 .................. $179.00

**QC Tool Adapter**

#003-320 .................. $12.95

**DUAL ANGLE SHARPENING SYSTEM**

Includes #003-570 Dual Angle Sharpening Fixture, Power Hone, 260 and 600 grit Diamond Wheels, Ceramic Lap, 1/2 micron Diamond Spray, and Wheel Storage Rack.

- 115V, 60 Hz
- #003-577 .................. $858.00
- 230V, 50 Hz
- #003-572 .................. $858.00

**POWER HONE**

Its smooth operation with a built-in quick change wheel gives a sharper, stronger tool edge. With its large top surface, heavy steel housing, reversible continuous-duty motor, and double-bearing spindle, the Power Hone can be depended on for years. Special built-in mounting holes allow you to mount your own special adapters, if desired.

Includes 600 grit industrial-quality diamond wheel.

- 115V, 60 Hz
- #001-525B ................ $379.00
- 230V, 50 Hz
- #001-543B ................ $379.00

**A. 5" (127mm) DIAMOND WHEELS**

- 180 Grit Gator
  - #011-194 .................. $129.00
- 260 Grit (coarse)
  - #002-138 .................. $97.00
- 600 Grit (medium)
  - #002-055 .................. $89.00
- 1200 Grit (fine)
  - #002-139 .................. $89.00

**B. CERAMIC LAP, 6" (152.4mm)**

#002-415 .................. $188.00

For polishing to a mirror finish on tools. Requires Diamond Spray (1/2 micron normally recommended).

**C. WHEEL STORAGE RACK**

#001-694 .................. $19.80

Protect and organize your wheels with this convenient storage rack.

**D. DIAMOND SPRAY**

- 2 oz. Used with ceramic lap and other surfaces.
  - 1/4 micron (extra fine)
    - #002-752 .................. $23.90
  - 1/2 micron (fine)
    - #002-753 .................. $23.90
  - 1 micron (medium)
    - #002-754 .................. $23.90
  - 3 micron (coarse)
    - #002-755 .................. $23.90

Also available in non-flammable.

**EXTRA POST ASSEMBLY**

#003-502 .................. $28.85
TOOL SHARPENING: ACCU-FINISH™

ATTENTION POWER HONE Model B Owners...

CONVERSION TABLE
#001-962 ............... $269.00
Convert your Power Hone Model B into an Accu-Finish SERIES ONE, a versatile sharpening machine. Still plenty of room to use your graver fixtures, but now you will be able to sharpen all sorts of tools. Ideal for a machine or woodworking shop. NOTE: Conversion Table is for the Power Hone Model B ONLY! Converting to this set up, you will lose the quick change capability. Call for details.

A. GRIND-R-TABLE
#001-696 ................. $189.00
Heavy-duty solid steel calibrated “tool rest” that you can add to most 6”, 7”, and 8” bench grinders. Now you can grind compound angles on a variety of tools and chisels, plus shaping gravers, more accurately and easily. Includes QuickMount base.

GRIND-R-TABLE SPECIAL PACKAGE
#001-754 ................. $448.00
Includes 2 Grind-R-Tables (A), 2 QuickMount Bases, and a Heavy Steel Base Plate (B).

QUICKMOUNT TWIN-TABLE PACKAGE
#001-703 ................... $789.00
Includes Baldor 7” grinder (C), 2 Grind-R-Tables (A), 2 QuickMount Bases (not pictured), and Heavy Steel Base Plate (B).

EXTRA QUICKMOUNT BASE BLOCK
#001-724 ................... $28.00

B. HEAVY STEEL BASE PLATE
#001-697 ................... $99.00

C. BALDOR 7” GRINDER
#001-704 ................... $318.00

D. QUICKMOUNT LIGHT KIT
#001-756 ................... $59.70

WHEEL BLANKS
Precision aluminum wheel blanks let you make your own special sharpening or polishing wheels using abrasive paper, leather, etc.

5” (125mm)
#002-129 ................... $19.95

6” (150mm)
#002-537 ................... $25.95

QUICK WHEEL CHANGE ADAPTER for Original Power Hone
#001-838 ................... $49.00
This drive plate assembly replaces the standard wheel knob on the original Power Hone so you can change wheels simply.

BG DIAMOND WHEELS
Accu-Finish BG Diamond Wheels are designed for the bench grinder you already own, and they are affordable and long lasting. Diamond wheels stay flat without grooving and do not require dressing. BG wheels are 6” O.D. x 1” wide for use up to 3600 RPM. Specify: 1/2”, 5/8”, 3/4”, or 16mm or 20mm arbor size when ordering.

60 Grit (rough)
#001-328 ................... $189.00

80 Grit (coarse)
#001-329 ................... $179.00

100 Grit (medium rough)
#001-330 ................... $159.00

180 Grit (medium)
#001-331 ................... $149.00

220 Grit (medium fine)
#001-332 ................... $134.00

360 Grit (fine)
#001-333 ................... $124.00

ATTENTION POWER HONE Model B Owners...

CONVERSION TABLE
#001-962 ............... $269.00

TOOL SHARPENING: ACCU-FINISH™

Accu-Finish™ SERIES ONE
#001-599B ............... $589.00
The Accu-Finish SERIES ONE was designed to let smaller shops put a high-performance cutting edge on carbide, ceramics, cermets, HSS, and many PCD/CBN tools. This low-speed machine is simple and safe to use. A great tool finisher for any metal or woodworking shop. Choose the tool geometry you want by setting the table elevation and protractor angle. Compact for portability.

STARTER PACKAGE
#001-600 ................... $649.00
Includes Accu-Finish Series ONE machine and 600 grit wheel.

STarter package, 220V
#001-600-220 ............... $669.00

VALUE PACKAGE
#001-605 ................... $948.00
Includes Accu-Finish Series ONE machine, 260, 600, 1200 grit wheels and insert holder.

Value package, 220V
#001-605-220 ............... $968.00

LAMP KIT, 115V
#022-915 ................... $58.00
(115 Volt, 3-prong grounded plug)
Insulated shade stays cool.
15” flexible neck. Rated 40 watts. Lamp sold separately

BG DIAMOND WHEELS
Accu-Finish BG Diamond Wheels are designed for the bench grinder you already own, and they are affordable and long lasting. Diamond wheels stay flat without grooving and do not require dressing. BG wheels are 6” O.D. x 1” wide for use up to 3600 RPM. Specify: 1/2”, 5/8”, 3/4”, or 16mm or 20mm arbor size when ordering.

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80 Grit (coarse)
#001-329 ................... $179.00

100 Grit (medium rough)
#001-330 ................... $159.00

180 Grit (medium)
#001-331 ................... $149.00

220 Grit (medium fine)
#001-332 ................... $134.00

360 Grit (fine)
#001-333 ................... $124.00

TOOL SHARPENING: ACCU-FINISH™
GRAVERS & TOOLS

A must have for any engraver, jeweler, carver, or stone setter.

MILLGRAIN TOOLS

These tools form a uniform series of decorative beads as you roll the wheel along the edges of jewelry and other metal items. Set includes 6 millgrain tools: 5, 7, 8, 9, 10, & 12. Tools work almost effortlessly in GRS impact handpieces or by hand pressure.
GRAVERS & TOOLS

GLENSTEEL™ V-POINT GRAVERS
Convenient, High-Performance Tools for Engravers, Stone Setters, and Jewelers
GRS offers a family of V-shaped gravers made from GlenSteel HSS. These new tools have a precision ground V-Point geometry on one end with a convenient 3/32” square shank on the other. They come in 60°, 75°, 105°, and 120° points. You just sharpen the face, add your style of heel, and use. “V” Length: 1.3” (31.8mm). Overall Graver Length: 2.5” (61mm).

#022-590 60° $13.95 ea.
#022-591 75° $13.95 ea.
#022-592 105° $13.95 ea.
#022-593 120° $13.95 ea.

GROUND POINT CARBIDE BLANK
#022-351 $6.95 ea. 0.125” x 1.5” (3.175mm x 38.1mm).

GRS X-7 HSS BLANK
#022-350 $13.95 ea. This super High Speed Steel tool is extremely hard (nearly Rockwell C70) and very wear resistant. Applications include fine shading, bulino, and banknote engraving. Size: 0.093” x 0.001” (2.35mm) square x 2.5” (63mm) long.

STRAIGHT LINE GRAVERS
High Carbon Steel. For shading, florentine finishing, texturing, etc.
#022-249 8-6 $16.95
#022-812 12-8 $18.05
#002-693 14-6 $16.98
#002-694 16-6 $19.45
#002-122 18-10 $21.30
#002-695 20-10 $20.52
#011-026 24-10 $24.95

CURVED LINE GRAVERS
High Carbon Steel. For shading, florentine finishing, texturing, etc.
#002-035 14-6 $19.95
#002-697 16-6 $21.30
#001-389 18-10 $23.40
#002-698 20-10 $22.30
#002-699 24-10 $27.95
#022-374 28-10 $22.95

HSS BEVEL LINE GRAVERS
Made of High Speed Steel (HSS). For bead raising and material removal.
#002-702 #1 Bevel $8.95
#002-703 #2 Bevel $8.95

MULLER LINE GRAYER
#022-358 32-8 $23.95
#022-359 30-10 $23.95
#022-360 28-10 $22.49

GLENSTEEL™ GRAVERS
Glensteel is special high-speed tool steel made exclusively by GRS for tough engraving and stone setting. It won’t break or chip like other tools and is easier to grind and sharpen than other high-speed steels. Size: 0.093” (2.35mm) square x 2.7” (70mm).

#002-120 Blank $10.95 ea.
#002-115 Square $11.45 ea.
#002-116 Flat $11.45 ea.

GRS TUNGSTEN CARBIDE GRAVERS
These are much harder than any tool steel, but more brittle. When properly used, they last up to 10 times longer between sharpenings. Sharpen with a diamond wheel. Size: 0.085” (2.2mm) square x 2” (50mm).

#002-232 Blank $9.40 ea.
#002-233 Square $9.90 ea.

ROUND CARBIDE BLANK
#022-347 $4.70 ea.

This precision round tungsten carbide tool blank is perfect for making special texturing tools and other tools as you need them. High impact, micro-grain carbide. Size: 1/8” (3.18mm) diameter x 1.5” (38mm) long.

BURNISH TOOL
#022-346 $19.75 ea.

This special tool, made from solid tungsten carbide, is used for burnish, rub-over, or “gypsy” stone setting. Size: 3/32” (2.35mm) square x 1.9” (48mm) long.

OTHER HSS GRAVERS & BLANKS
Made from quality heat-treated High Speed Steel. Size: 0.079” (2mm) square x 2.2” (56mm) long. #022-160 for wider cuts, including western style. Size: 1/8” (3.2mm) square x 2.5” (63mm) long.

#002-120 Blank $10.95 ea.
#002-115 Square $11.45 ea.
#002-116 Flat $11.45 ea.
#022-160 Blank-wide $9.90 ea.

HEAT TREATED STEEL POINTS
These hardened steel points let you make custom tools fast. They are easily made into special punches, hammer tools, prong pushers, stipple points, and more.
All points are properly hardened and come in economical packages of six.

<table>
<thead>
<tr>
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<tr>
<td>A. #001-624</td>
<td>0.121” (3.1mm)</td>
<td>1.50” (38mm)</td>
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<td>B. #002-031</td>
<td>0.072” (1.8mm)</td>
<td>1.50” (38mm)</td>
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<tr>
<td>C. #002-118</td>
<td>0.130” (3.3mm)</td>
<td>3.00” (76mm)</td>
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RING GRAVERS
Gravers made specifically for engraving the inside of rings.

D. #022-818 $9.89
E. #022-819 $7.49
F. #022-820 $7.49

BRASS ROD
#022-159 $1.20 ea.
0.125” x 1.75” (3.175mm x 44.45mm).
### Burs, Carving & Beading Tools

**Carbide Rotary Bur Set**

- **#004-511** .................. $23.95
  - 6 piece versatile carbide assortment for most metals, wood, and general work. 1/16" (1.6mm) shank.
- **#004-512** .................. $39.80
  - 4 diamond and 2 stone burs especially for glass, stone, and similar materials. 1/16" (1.6mm) shank.

**Fox Round Bur**

- **#022-764** .................. $19.85
  - TC1-003 (3/10mm)
- **#022-765** .................. $19.85
  - TC1-004 (4/10mm)
- **#022-766** .................. $19.85
  - TC1-005 (5/10mm)
- **#022-767** .................. $19.85
  - TC1-006 (6/10mm)
- **#004-795** ................. $11.80
  - Set of four. 3/32" (2.38mm) shank.

**Round Carbide Bur**

- **#022-317** ................. $2.98
  - 1/4mm round
- **#022-318** ................. $2.98
  - 1/2mm round

**Fox Carbide Bur Set**

- **#004-795** .................. $11.80
  - Set of four. 3/32" (2.38mm) shank.

**Diamond & Stone Rotary Bur Set**

- **#004-512** .................. $39.80
  - 4 diamond and 2 stone burs especially for glass, stone, and similar materials. 1/16" (1.6mm) shank.

**Threaded Round 4mm Hammer Tip**

- **#011-079** .................. $16.60
  - Fits most jeweler's mechanical hammer handpieces. Can be used with QC Tool Holder.

**Diamond Point Tool**

- **#002-956** .................. $29.95
  - Faceted diamond point creates a bright, sparkling texture on jewelry which is often called "laser" finish. Threaded steel shank.

**Diamond Point**

- **#002-123** ................ $17.90
  - Steel shank with a natural diamond lapped to a cone point. For glass and crystal stippling, as well as jewelry texturing.

**Wood Chisels**

- **#011-457** ................ $24.95
  - Straight, 1/8"
- **#011-464** ................ $24.50
  - Curved, 3/32"

**Large Wood Carving Tools**

- **#002-371** ................ $79.80
  - Modified for QC Holder
- **#004-690** ................ $69.40
  - As pictured, for the QC Tool system.

**Small Wood Carving Tools**

- **#002-295** ................ $49.00
  - Fits all impact handpieces except Bulino. Set of 6.
- **#002-295QC** .............. $59.00
  - Modified for QC Holder

**Bead Tool Set**

- **#002-812** ............... $18.90
  - Set
- **#002-813-0** ........... $1.20
  - #0
- **#002-813-1** ........... $1.20
  - #1
- **#002-813-2** ........... $1.20
  - #2
- **#002-813-3** ........... $1.20
  - #3
- **#002-813-4** ........... $1.20
  - #4
- **#002-813-5** ........... $1.20
  - #5
- **#002-813-6** ........... $1.20
  - #6
- **#002-813-7** ........... $1.20
  - #7
- **#002-813-8** ........... $1.20
  - #8
- **#002-813-9** ........... $1.20
  - #9
- **#002-813-10** .......... $1.20
  - #10
- **#002-813-11** .......... $1.20
  - #11
- **#002-813-12** .......... $1.20
  - #12
- **#002-813-13** .......... $1.20
  - #13
- **#002-813-14** .......... $1.20
  - #14
- **#002-813-15** .......... $1.20
  - #15
- **#002-813-16** .......... $1.20
  - #16
- **#002-813-17** .......... $1.20
  - #17
- **#002-813-18** .......... $1.20
  - #18
- **#002-813-19** .......... $1.20
  - #19
- **#002-813-20** .......... $1.20
  - #20
- **#002-813-21** .......... $1.20
  - #21
- **#002-813-22** .......... $1.20
  - #22

**Large Wood Carving Tools**

- **#004-795** ................ $11.80
  - Set of four. 3/32" (2.38mm) shank.
### A. STANDARD TOOL CAROUSEL

#001-689 .................. $24.95  
Organizes and protects 60 gravers and tools in a 5" (127mm) space on your bench.

### B. COMBINATION QC TOOL CAROUSEL

#011-193 ................. $29.60  
Holds 30 standard tools and gravers in the top tray. The bottom has four removable QC tool trays that each hold 10 QC Tool Holders. You can store 70 tools in a small space.

### C. QC TOOL TRAYS

#011-336 .................. $7.95  
Four color-coded trays, each holds ten QC Tool Holders. Set of 4.

### 3-TIER TOOL ORGANIZER

#011-218 .................. $44.95  
Holds 30 standard tools and gravers in the top tray. Bottom 2 levels have 4 removable QC tool trays that hold 10 QC Tool Holders each. You can store up to 110 tools all in one place!

### QC TOOL HOLDERS

This patented quick change (QC) tool holding system lets you change tools in seconds without a wrench. Tool shanks can be a variety of round, square, rectangular, and even odd shapes. This system is standard on many GRS power handpieces.

#### STANDARD QC TOOL HOLDER

#004-803 .................. $5.20  
Package of 3  
#004-804 .................. $14.90  
Package of 10  
#004-806 .................. $46.00

#### C-DR QC TOOL HOLDER

#004-848 .................. $6.15  
Center drilled blank for user to customize hold for holding special tools.  
Package of 3  
#004-859 .................. $17.90  
Package of 10  
#004-860 .................. $59.00

#### 3/32” ROUND QC TOOL HOLDER

#004-853 .................. $6.15  
Package of 3  
#004-854 .................. $17.90  
Package of 10  
#004-855 .................. $59.00

### EXTRA-LENGTH QC TOOL HOLDER

#004-856 .................. $7.10  
Extends your tool by 1/2” more than traditional style.  
Package of 3  
#004-857 .................. $20.00  
Package of 10  
#004-858 .................. $65.00

#### GRADUATED-LENGTH QC HANDLE SET

#004-934 .................. $29.50  
The GRS QC tool holding system continues to grow. As a tool’s length decreases from wear or resharpening, the longer handles allow continued full comfort and tool control while extending useful tool life. The handles are made from machined stainless steel and a nearly unbreakable fiber-reinforced thermoplastic. The set includes three handles: 2”, 2.25” and 2.5” (50mm, 57mm, and 64mm) and a sapphire blue acrylic storage tray that fits all GRS tool carousels.

### ADJUSTABLE GRAVER HANDLE SET

#004-670 .................. $28.95  
These handles let you adjust your graver length for more accurate and comfortable work. Just slide the desired length of graver out of the handle and tighten the lock screws. Set includes three different colored handles made from aircraft aluminum. Tools not included.

### QC HAND HANDLE

#004-805 .................. $29.50  
This handle lets you use any QC tool for hand work. Made with a comfortable rubber cover. Includes 3 QC Tool Holders.

### GRS HAND CHUCK

#004-000 .................. $26.95  
This precision hand chuck holds a wide variety of tools including many gravers. Its two-jaw chuck is made of hardened and ground steel with a v-notch in each jaw for superior grip. Extremely versatile, comfortable shape and size. 2” (51mm) long.

### MULTI-PURPOSE TOOL HOLDER

#002-704 .................. $7.95  
Collet chuck holds beading tools, prong pushers, and some gravers. Collets to accept shaft diameters from 0 - 0.125” (0 - 0.03mm). Overall length: 3.25” (83mm).

### THERMO-LOC™ HANDLES

#004-800 .................. $8.95 per set  
Now, unbreakable graver handles that never need drilling! Heat the Thermo-Loc handle or the tool tang and insert the graver or tool into core and let cool. Set includes 4 Thermo-Loc core handles, one of each color: Dusk, Rosewood, Honey Beige, and Pewter.
QUALITY OPTICAL PRODUCTS

Reduce your eye strain, improve quality & work more comfortably.

A. GRS/MEIJI EMZ-5 MICROSCOPE FOR ACRIBAT STAND

#003-563NFB ............... $1,265.00
Includes stereo zoom microscope body, 10X wide-field eyepieces, 0.5 objective lens. Magnification range 3.5 to 22.5. Working distance 6” (150mm). Other magnifications and working distances available.

GRS/Meiji EMZ-5 Microscope for Acrobat Stand, with Eyepieces for Glasses (#003-648)
#003-563NFB-G ............. $1,298.00

B. GRS ACRIBAT™ MICROSCOPE STAND

#003-630 ................... $469.00
With outstanding flexibility, this Acrobat stand works with you, not against you. It’s easily positioned during work and swings away when desired. Arms move with adjustable friction or can be locked, if desired. Built-in headrest reduces neck and back strain. Fits #003-563NFB microscope.

C. MICROSCOPE RING LIGHT, 115V

Extra bright circular fluorescent bulb gives cool, glare-free illumination. Fits GRS/Meiji Microscopes and many others.

#022-268T .................. $179.00
Microscope Ring Light, 230V
#022-268T-220 ................ $179.00

REPLACEMENT 7,000 HOUR BULB

#022-338 ................... $39.40
For #002-268T or #022-268T-220 Microscope Ring Light.

D. GRS/MEIJI EMZ-5 MICROSCOPE FOR ORIGINAL STAND

#003-563 .................... $1,425.00
Includes stereo zoom microscope body, focus block needed for original stand, 10X wide-field eyepieces, and 0.5 objective lens. Magnification range 3.5 to 22.5. Working distance 6” (150mm). Other magnifications and working distances available.

E. GRS ORIGINAL MICROSCOPE STAND

#003-564 .................... $389.00
This steady, durable stand is easily positioned. Fits #003-563 microscope. Includes weighted base and lock-down bracket.

F. HEADREST KIT

#003-584 .................... $114.00
Reduces neck and back strain. Included with Acrobat Stand.

G. TWIN HALOGEN LIGHTS, 115V

#003-597 .................... $398.00
Attaches to vertical post of all GRS microscope stands.

NEW! LED MICROSCOPE RING LIGHT

#024-022 .................... $128.00
Natural spectrum light. Intensity can be adjusted.
LED Microscope Ring Light, 220V
#024-022-220 ................ $138.00

HALOGEN LAMP

#022-092 ..................... $159.00
Lamp can be attached directly to bench. Halogen Lamp, 115 Volt.

NEW! MAGNIFIER LAMP

#002-811 ..................... $159.00
Built-in lens magnifies your work 1.25X. Includes clamp-on mount and 40W fluorescent bulb.

INSULATED SHADE LAMP

#001-756 .................... $59.70
The outside of this lamp won’t get hot. Uses a standard bulb up to 100W. Includes screw-on mount.

0.3 OBJECTIVE LENS

#003-591 ..................... $138.00
Extends your working distance to 9” (289mm).

NEW! LED MICROSCOPE RING LIGHT

#024-022 .................... $128.00
Natural spectrum light. Intensity can be adjusted.
LEDMicroscope Ring Light, 220V
#024-022-220 ................ $138.00

NEW! LED MICROSCOPE RING LIGHT

#024-022 .................... $128.00
Natural spectrum light. Intensity can be adjusted.
LED Microscope Ring Light, 220V
#024-022-220 ................ $138.00

NEW! Microscope Eyepieces for Glasses

#003-648 .................... $199.50
These eyeglass-friendly 10X eyepieces are drop-in replacements for the standard Meiji 10X eyepieces. They feature a rubber ring on top of the eyepieces and a special extended relief system so you see a full field of view, even with your prescription eyeglasses on.
OPTIVISOR
Helps you see your work better. It features ground plastic lenses and adjustable headband. Includes special kit for changing lens position. Try #5 first.

#3 (1.75 power)  
#002-710 ................. $39.95

#5 (2.50 power)  
#002-711 ................. $39.95

#7 (2.75 power)  
#002-712 ................. $39.95

REPLACEMENT LENSES

#3 (1.75 power)  
#002-965 ................. $20.95

#5 (2.50 power)  
#002-966 ................. $20.95

#7 (2.75 power)  
#002-967 ................. $20.95

OPTILOUPE KIT

#022-119 ................. $12.95
This kit adds an extra 2.5 power to the Optivisor. Swings away when desired.

CAMERA MOUNT SYSTEM FOR ACROBAT MICROSCOPE STAND

#003-687 ................. $287.00
This new and improved mounting system allows you to video what you see through the microscope without making any adjustments. It keeps your workpiece centered at all times.

1/2" HI-RESOLUTION COLOR CAMERA FOR MICROSCOPES, NTSC

#003-602 ................. $869.00
This camera is perfect for filming while you engrave, carve, or set stones. Resolution: 470TVL. 2" x 2" x 4.5" (50.5mm x 50.5mm x 115mm)

1/2" Hi-Resolution Color Camera for Microscopes, PAL

#003-603 ................. $1,298.00

ZOOM VIDEO LENS

#003-607 ................. $489.00
This is a close-focusing macro video lens that offers superior clarity and parfocal zoom capabilities. Compatible with cameras 2/3" or smaller. 6X magnification power over a focal range of 0.71" to 4.25" (18mm to 108mm). Close-up lens included.

STERLING SILVER EYE LOUPE

#011-480 ................. $69.00
GRS designed this loupe model as a special workpiece for engravers and stone setters. The outside frame is 0.060" (1.5mm) deep solid sterling silver, thick enough for high relief engraving and stone setting. It’s made from sheet material, not a casting, so it cuts consistently and cleanly with no soft spots or porosity. The optics are a standard 10X triplet glass lens. Includes leather case.

CHROME FINISH EYE LOUPE

#011-380 ................. $19.60
Triplet 10X, 18mm lens. High quality optics allow close inspection of tools and work. Chrome finish, leather case. It also can be personalized by engraving it.

POST MOUNT

UTILITY SHELF

#003-680 ................. $94.00
This 16" x 11.5" x 0.25" (406.4mm x 292mm x 6.35mm) shelf is a great way to add extra space for tools and free up your bench space. You can lock this shelf into any position or let it swing and rotate freely. Mount to your GRS Microscope stand or almost any 1.125" (28.58mm) diameter post. Available in two different mounting methods.

UTILITY SHELF MOUNT

#003-686 ................. $28.95
Bracket kit allows you to mount a utility shelf to the side of your bench or any flat surface. Utility shelf not included.

EMZ-8TR MICROSCOPE
Contact a GRS representative for information.
## HELPFUL PRODUCTS

Tools designed to assist you with your projects.

### TRANSFER PRODUCTS

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<thead>
<tr>
<th>Product</th>
<th>Code</th>
<th>Price</th>
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<tbody>
<tr>
<td>Transfer Wax</td>
<td>#002-709</td>
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<tr>
<td>Modeling Clay, 1 lb.</td>
<td>#022-290</td>
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<td>Chinese White</td>
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### MOLD-MAKING PRODUCTS

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<td>Silicone RTV Quick-Set Mold-Making Rubber</td>
<td>#022-279</td>
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<td>Alumilite Super Plastic</td>
<td>#022-067 White #022-068 Tan</td>
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### LUBRICANTS

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<td>B. &quot;Clean&quot; Dry-Lube Powder</td>
<td>#022-100</td>
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<td>C. Tap Magic Graver Lube Kit</td>
<td>#004-638</td>
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<tr>
<td>D. Dry-Lube Stick</td>
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### SURFACE FINISHING

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<td>Wet/Dry Sanding Paper, 400 Grit</td>
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<td>Wet/Dry Sanding Paper, 320 Grit</td>
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<td>Wet/Dry Sanding Paper, 220 Grit</td>
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### POLISHING PAPER

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### SPRAY LACQUER

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<td>Special Gold Colored</td>
<td>#024-026</td>
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USEFUL PRODUCTS

SCRIBE TOOL
#022-140 ........................ $9.95
Carbon tip for easy marking and transferring of patterns and designs.

SCRIBE KIT
#022-584 ........................ $9.95
Metal and aluminum handle that is excellent for scribing layouts on workpieces. Perfect for the Scrimshander. Comes with six replaceable points.

GRAPHGEAR 500 PENCIL
#024-007 ....................... $14.00
Perfect for layout and design that requires precision and light lines. Mechanical, 0.3mm.

3" BOW COMPASS & DIVIDER
#022-156 ....................... $51.95
A rugged and dependable Starrett product. Use for design layouts and borders and circles and distances between centers on rings, barrels, receivers, etc.

PR88 HAND PROTECTOR
Protects your hands from dirt and grime. Rub onto your hands before dirty jobs. After you're done, watch even the toughest dirt leave as you wash. Non-toxic product is kind to your skin with no oily feel. Approximate hand treatments per container: 3.5 oz., 60; 33.8 oz., 600.
#002-982 3.5 oz. $7.95
#002-983 33.8 oz. $29.95

GRS CHASING HAMMER SET
Each hammer features a fully heat-treated steel alloy head that weighs 1.6 oz. (45g). The handle is an oiled African hardwood. Except for the smaller ends, both models are identical. One is flat and the other is half round. Made for GRS by an experienced tool & die firm in Europe.
#011-472 1 each $69.95
#011-470 Flat/Flat $36.95
#011-471 Flat/Round $36.95

GRS POLO
Crafted with 100% Supima® cotton, one of the highest grades of cotton, and embroidered with the GRS Training Center logo. Women's style is semi-fitted with a 2 button, v-neck. Men's style is a regular polo. Additional sizes are available and can be ordered. Expect a minimum of 2 weeks for special size orders. Special sizes include (for both men and women) S, M, and XXL.
A. WOMEN'S POLO
White with burgundy logo
#024-094-L Large $39.95
#024-094-XL X-Large $39.95

B. MEN'S POLO
Black with white logo
#024-095-L Large $39.95
#024-095-XL X-Large $39.95

C. GRS ADJUSTABLE CAP
Hat is a structured fit with velcro closure, made from 100% five-panel brushed cotton twill. Black with white logo.
#024-093 ................... $19.95

GRS BRIEFCASE
This briefcase includes a front zip flap with 2-buckle closures, multiple interior pockets, zip pockets, clip for keys, and a bottom zipper that allows expansion up to 6". Made of 600 denier polyester. Bag: 16 3/4" (width) x 12 1/2" (height) x 3 1/2" (depth). Adjustable handle: 1 1/2" (width) x 48" (length).
D. #024-103G Green $31.95
E. #024-103B Black $31.95

GRS APRON
#022-516 ..................... $20.00
Protect your clothing with an apron just like the one worn by students and instructors at the GRS Training Center. Adjustable neck strap, ties around the waist, has three large front pockets. Machine washable. 65% polyester, 35% cotton. Only available in black.

USEFUL PRODUCTS

G. #024-094-L Large $39.95
H. #024-094-XL X-Large $39.95
NEW!

**SELF-STUDY KIT FOR ENGRAVERS**
by Ron Smith
#022-873 ................. $199.00
This is an effective training kit for serious engravers that contains precisely applied and highly detailed scroll patterns. It will allow you to execute some of Ron’s “Rules for Beauty” in metal and experience master-level work at the same time. Includes the following material for engraving:
- 2 designs from book #022-199-H on steel practice plates
- 2 designs from book #022-843-H on steel practice plates
- 2 designs not found in his books on steel practice plates
- 1 Buck 525 Knife (#019-001) with Smith design
- 1 steel practice plate with same pattern as knife
- Prints of each pattern shown in three different sizes

Kit includes Advanced Drawing of Scrolls (#022-843-H), Drawing & Understanding Scroll Designs (#022-199-H) and the material listed above.

Self-Study Kit for Engravers, without books
#022-874 ................. $119.00

**BLANK STENCIL SHEETS**
#022-197P ................. $0.99
Self-adhesive 8.5” x 11” plastic sheets let you photocopy patterns for transfer onto your work. Carve right through the sheet, just follow the lines.
Blank stencil sheets, repositionable
#022-197R ................. $0.99

**GRS SCROLL DESIGN KIT**
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Specify panel number: 1-8
Specify right (R) or left (L)
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“RIGHT” hand stamps will print images as shown; “LEFT” hand will print the reverse.

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(25.4mm x 50.8mm)
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Stainless steel
#011-363 ...................... $3.95
5 holes (4mm stones), brass
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5 holes (4mm stones), stainless steel
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15 holes (4mm stones), brass
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(50.8mm x 50.8mm)
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Brass, package of 3
#001-804 ...................... $14.95
Copper, package of 3
#003-594 ...................... $9.95
Cronite, single
#022-287 ...................... $1.95

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(50.8mm x 101.6mm)
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1.3" x 1.8" (33.02mm x 45.72mm)
Flat
#022-566 ...................... $3.60
Domed
#022-566-F .................... $4.35

FLOOR PRACTICE PLATE
1.3" x 1.8" (33.02mm x 45.72mm)
Flat
#022-565 ...................... $4.85
Curved
#022-565-F .................... $5.75

REMINGTON PRACTICE PLATE
#024-013 ...................... $6.49
4.535" x 1.18" (115.189mm x 29.972mm).

NEW!
AL MAR HAWK CLASSIC KNIFE
Beautiful high-quality, hand-crafted knife from Japan. With its timeless design and exceptional quality, it is the epitome of the classic gentleman's pocketknife. Available in several handle materials including a solid stainless steel. Comes with a finely crafted leather pouch embossed with Al Mar's logo.

A. BLACK MICARTA  
#019-003 $119.95
B. WHITE PEARL  
#019-004 $141.95
C. HONEY JIGGED BONE  
#019-005 $126.95
D. BLACK PEARL  
#019-006 $149.95
E. COCOBOLO  
#019-008 $111.75
F. STAINLESS STEEL  
#019-007 $89.95

G. AL MAR OSPREY CLASSIC KNIFE  
#019-011 $74.95
The diminutive Osprey is one of the smallest and highest quality front-lock knives made today. It features stainless steel bolsters and brass liners. Comes with a finely crafted leather pouch embossed with Al Mar's logo.

H. BUCK 525 KNIFE (GENTS)  
#019-001 $27.95
I. BUCK 526 KNIFE (EXECUTIVE, BEVELED EDGE)  
#019-002 $33.95
GRS and Buck have partnered to offer these great knives in an engraver-friendly 400 series stainless steel. These are perfect to engrave when you want something more than practice plates, but not a big or expensive project. Made in the USA.

STERLING SILVER RING
#024-052-6 6 $23.80
#024-052-7 7 $23.80

STERLING SILVER RING
Domed.  
#024-051-6 6 $23.80
#024-051-7 7 $23.80

STAINLESS STEEL TWISTER DOUBLE RING
#024-059-58 8.5 $15.00
#024-059-60 9.5 $15.00

TITANIUM RING
#024-058-56 8 $25.00
#024-058-60 9.5 $25.00

EYE LOUPES
Both are triplet 10X glass lens with high-quality optics allowing close inspection of tools and work. Includes leather case. See page 21 for a complete description of each loupe. Above are examples of what can be done.

Sterling Silver  
#011-480 $69.00
Chrome Finish  
#011-380 $19.60

NEW!

AL MAR HAWK CLASSIC KNIFE
Overall Length: 5.75” (146.05mm)  
Blade Length: 2.5” (63.5mm)  
Closed Length: 3.25” (82.55mm)  
Weight: 1.5 oz. (42.52g)

AL MAR OSPREY KNIFE
Overall Length: 4” (101.6mm)  
Blade Length: 1.6875” (42.8625mm)  
Closed Length: 2.3125” (58.7375mm)  
Weight: 0.6 oz. (17g)

BUCK 525 & 526 KNIFE
Overall Length: 4.625” (41.475mm)  
Blade Length: 1.875” (47.625mm)  
Closed Length: 2.75” (69.85mm)  
Weight: 1 oz. (28.35g)
DIE-STRUCK STERLING SILVER SIGNET RINGS
GRS commissioned a jewelry manufacturing firm that specializes in die making and striking to make these beautiful rings. The rings are noticeably thicker and heavier than ordinary silver signet rings. The higher quality manufacturing process means these rings engrave more like a high-quality gold ring than silver. The oval face is approximately 0.54” x 0.47” (13.7mm x 119mm).

#019-009-8 8 $73.95
#019-009-9 9 $73.95
#019-009-10 10 $73.95
#019-009-11 11 $73.95
#019-009-12 12 $73.95

GENT’S DIE STRUCK STERLING SIGNET RING
#022-933 ................. $21.86
Economical signet ring that can be easily sized. The oval face is approximately 0.55” x 0.43” (14mm x 11mm). Only available in size 10.

STAINLESS STEEL LASER CUT SPLIT RING
#024-053-54 7 $15.00
#024-053-56 8 $15.00

NEW!
STAINLESS STEEL TRAIL RING
#024-054-54 7 $15.00
#024-054-56 8 $15.00
#024-054-60 9.5 $15.00

NEW!
STAINLESS STEEL SPLIT RING
#024-055-54 7 $19.00
#024-055-56 8 $19.00

NEW!
STAINLESS STEEL SPLIT RING
#024-056-54 7 $23.00
#024-056-56 8 $23.00

NEW!
STAINLESS STEEL PUZZLE RING
Crystal set in middle.
#024-057-54 7 $19.00
#024-057-56 8 $19.00
#024-057-60 9.5 $19.00

NEW!
STERLING SILVER RING
Flat surface.
#024-050-6 6 $23.80
#024-050-7 7 $23.80
#024-050-8 8 $23.80
#024-050-9 9 $23.80
#024-050-10 10 $23.80

SLIGHTY DOMED BRASS RING
#004-300 .................. $2.75
0.620” (16.8mm) OD x 0.220° (5.58mm) wide.
Package of 5
#001-953 .................. $9.40

BRASS RING
#004-412 .................. $4.90
Flat surface with a chamfered edge. 0.875” (22.2mm) OD x 0.187” (4.74mm) wide.
#004-490 .................. $8.90
0.875” (22.2mm) OD x 0.170” (4.5mm) wide.

PAVÉ PRACTICE RING
(1.5mm / 2 row holes) Flat surface with chamfered edge. 0.820” (20.8mm) OD x 0.280” (7mm) wide.
Brass
#011-379 .................. $23.95
Stainless steel
#011-379-SS ............... $26.95

CHANNEL RINGS
0.890” (22.4mm) OD x 0.280” (7mm) wide
Brass
#004-401 .................. $13.96
Stainless steel
#004-401SS ............... $24.64
Brass, holes for 3mm round stones
#004-489 .................. $9.84

12-SIDED BRASS PRACTICE RING
#011-389 .................. $3.00
0.950” (24mm) OD x 0.270” (6.8mm) wide.
6 holes, for 5mm stones
#004-491 .................. $8.90

BRASS TRIANGLE PAVÉ PRACTICE RING
#011-388 .................. $15.60
0.985” (25mm) OD x 0.4” (10mm) wide.
Holes for 2.4mm stones
#011-366 .................. $34.65

WATCH BEZEL PRACTICE BLANK
#011-383 .................. $49.77
1.275” (32.3mm) OD x 0.125” (3mm) wide.
For 2mm stones.

LOOSE CUBIC ZIRCONIA STONES
Stones to practice stone setting. Sold in packages of 20.
3.0mm square
#023-004 .................. $24.30
1.5mm round
#023-005 .................. $8.20
2.0mm round
#023-006 .................. $8.85
2.4mm round
#023-007 .................. $9.70
3.0mm round
#023-008 .................. $11.68
4.0mm round
#023-009 .................. $21.09
5.0mm round
#023-010 .................. $27.33
PRACTICE & PROJECT PIECES
Special items for practice, self improvement & fun projects.

TAGS
These tags are made of 0.05” brass or nickel silver for another fast and easy engraving project. Give them as a gift or make a name tag for your pet, the possibilities are endless! Available in two styles, round or rectangle. Includes split ring.

Brass
A. #003-302 ................... $2.69
C. #003-304 ................... $2.99

Nickel Silver
B. #003-303 ................... $2.89
D. #003-305 ................... $3.39

SPECIFICATIONS
A. & B.: 1.15” (29.2mm)
C. & D.: 1” x 1.5” (25.4mm x 38.1mm)
E. & F. Height: 1.8” (45.72mm)
G. 1” x 1.5” (25.4mm x 38.1mm)
H. 1.15” round (29.2mm)

STAINLESS STEEL KEY FOBSS
These stainless steel fobs are made from annealed 400 series stainless steel for a fast and fun engraving or stone setting project. They make perfect personal gifts. Made from extra thick 0.075” (1.905mm) stainless steel with a fine brush finish. Includes split ring.

E. Key Fob Style 1
#003-300 ........................ $4.39
F. Key Fob Style 2
#003-301 ........................ $4.39
G. Key Fob Style 3
#003-334 ........................ $3.80
H. Key Fob Style 4
#003-335 ........................ $3.80

NAMEPLATES
These solid brass nameplates let you create something as you develop your engraving skills. Thick enough for deep relief work. Available in plain or satin bead-blasted finish. Approximate size: 3.5” x 1.7” x 0.1” thick (88.9mm x 43.2mm x 2.5mm).

Plain Finish
I. #011-350 .................. $8.95 ea.
J. #011-351 .................. $8.95 ea.
K. #011-352 .................. $8.95 ea.
L. #011-353 .................. $8.95 ea.
M. #011-354 .................. $8.95 ea.

Satin Finish
I. #011-355 .................. $9.75 ea.
K. #011-357 .................. $9.75 ea.
L. #011-358 .................. $9.75 ea.
M. #011-359 .................. $9.75 ea.

STAINLESS STEEL THICK PARREL BRACELET
#024-062 ........................ $45.00
Length: 21cm.

STAINLESS STEEL BANGLE LINE BRACELET
#024-061 ........................ $36.00
Size: 6cm.

COPPER BRACELET BLANK
#022-893 ........................ $3.89
6” x 0.875” (152.4mm x 22.2mm).

NICKEL-SILVER BELT BUCKLES
This is the perfect “next step” after practice plates. Each buckle has hardware for belts up to 1.5” (38.1mm) wide. Gentle curve. Approximately: Oval, 3.4” x 2.6” (86.36mm x 66.04mm); Rectangle with rounded corners, about 2.5” x 2” (63.5mm x 50.8mm).

Oval
#024-018 ........................ $15.00

Rectangle
#024-019 ........................ $15.00
Precision Laser-Applied Patterns

Designed by top engravers for you to follow and learn.

Stainless Steel Key Fobs with Patterns
These kits include the Style 1 Stainless Steel Key Fob (#003-300, page 34) with a precisely applied pattern ready for you to engrave and a large-scale print of the pattern for study.

#003-300-210 .... $9.80
#003-300-163 .... $9.80

Stainless Steel Key Fob with Pattern
The Meek Squirrel Kit
Kit includes one laser-applied design Stainless Steel Key Fob Style 2 (#003-301, page 34), a print of the story, and a large-scale image for study.

#030-609 ................. $9.80

Key Tags with Pattern
Choose from yellow brass (#003-302, page 34) or white nickel silver (#003-303, page 34) tag with stylized face pattern. Kit also includes a large-scale print of the pattern for study.

Brass
#003-302-184 .... $7.90
Nickel Silver
#003-303-184 .... $7.90

10X Eye Loupe with Patterns
These kits include 10X triplet jeweler’s loupe (#011-380, page 21) in a choice of two patterns and a large-scale print of the pattern chosen for study.

#011-380-241 .... $24.90
#011-380-164 .... $24.90

Additional Laser-Applied Patterns
GRS offers a variety of patterns that are lightly laser etched onto a project piece that is designated to that design. All knife project kits come with a lasered practice plate of that design. The patterns that are displayed here are just a few available for sale. For a complete list, visit www.grstools.com/patterns.

Some prices listed are only for laser-applied patterns (workpiece sold separately) while others include both the pattern and workpiece. Please read carefully to avoid confusion.

Prices shown for knife patterns do not include knife.

Buck 525 Knife Patterns
Includes one 2” x 4” cronite practice plate with laser-applied design on both sides and a large-scale print of the pattern for study. The knife (#019-001, page 32) must be purchased separately.

#039-093 ........ $31.50
#039-204 ........ $27.50

Buck 526 Knife Patterns
Includes one 2” x 4” cronite practice plate with laser-applied design on both sides and a large-scale print of the pattern for study. The knife (#019-002, page 32) must be purchased separately.

#039-078 ........ $33.00

#039-097 ........ $33.00
These 2 patterns are for one knife.

AL MAR Hawk-Stainless Steel Bolster Patterns
Includes one 2” x 4” cronite practice plate with laser-applied design on both sides and a large-scale print of the pattern for study. The knife (#019-003, #019-004, #019-005, #019-006, or #019-008, page 32) must be purchased separately.

#039-140 ........ $57.25

#039-084 ........ $57.25

AL MAR Hawk- Full Stainless Steel Patterns
Includes one 2” x 4” cronite practice plate with laser-applied design on both sides and a large-scale image for study. The knife (#019-007, page 32) must be purchased separately.

#039-115 ........ $77.25

#039-086 ........ $57.25

AL MAR Osprey- Full Stainless Steel Pattern
Includes one 2” x 4” cronite practice plate with laser-applied design on both sides and a large-scale print of the pattern for study. The knife (#019-011, page 32) must be purchased separately.

#039-239 ........ $48.50
I gained more knowledge about engraving & tools in one week than I have in 15 years on my own!

Julie Shemaker, Manhattan, MT

This class was worth the cost. I learned tool making for the task at hand. Without the right tool, the work can’t be done. The methods taught were well presented and now I know how to do it - no grey areas. Great class and thanks for having me and all your help.

Adan Chewiwi, Bosque Farms, NM

This is my second course here. I continue to be amazed at the amount of information passed by the instructors and classmates and the willingness of them to do so. Anyone with an interest in engraving at any level will be helped.

Will Beckmarnold, Deer Park, WA

"The BEST Week I’ve Had in Years!" That’s what you’ll say when you attend a course at the GRS Training Center. You will feel it is fun, profitable, rewarding, and a personal breakthrough in your creativity.

In Emporia, Kansas, is a state-of-the-art facility dedicated and built for engraving, stone setting, jewelry making, wood carving, scrimshaw, and other artistic pursuits. This special part of Glendo Corporation is a place where people from all over the world come to share, teach, and learn. Two spacious and well-equipped classrooms provide a unique environment to learn these creative skills in days rather than months or years. This comfortable facility hosts a full range of courses from first-time beginners to the Grand Masters Program itself.

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www.grstrainingcenter.com

The finished work shown in this catalog demonstrates just some of what can be done with GRS Tools and what can be learned in the GRS Training Center. We thank the amateur and professional artisans who generously allowed us to display their work. For more information on this art and these artisans, visit the Featured Photos section at www.grstools.com/featuredphotos.

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Availability and prices are subject to change. All prices are in US dollars.

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