



**Crystalite**

AN  BRAND  
abrasive  
technology

# DIAMOND TOOLS FOR LAPPING & POLISHING



## UNMATCHED EXPERIENCE IN LAPIDARY SOLUTIONS

For over 40 years, Crystalite® has been the go-to for lapidary artists creating breathtaking works of art. We offer products ranging from traditional shaping and polishing to the latest specialized techniques that enhance your artistry and expand your creative possibilities.



## INDEX

**CUTTING LAPS & DISC PROTECTOR** PG 2-3

**NEW RELEASES** PG 4

**POLISHING LAPS & POLISHING MEDIA** PG 5-6

**GENERAL INFORMATION** PG 7-8

**PRE-FORM WHEELS** PG 9

**FORMING WHEELS & LAPS** PG 10

**FLEXIBLE LAPS, PADS & SAWS** PG 11-12

**HAND PADS, BELTS & DRUMS** PG 13

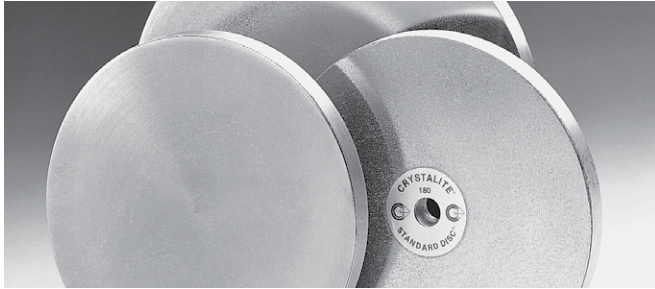
**FLEXIBLE FORMING TOOLS** PG 14

**HIGH SPEED CARVING TOOLS** PG 15

**DRILLS** PG 16

**FANTASY CUTTING TOOLS** PG 17

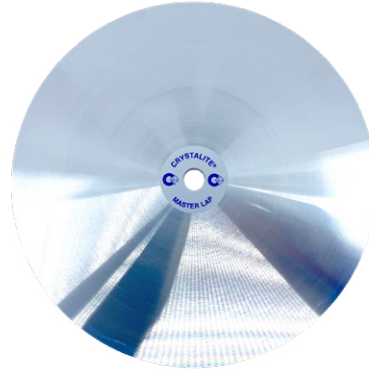
**BUY ONLINE** PG 18



## THE STANDARD™

These discs are used by commercial cutters worldwide and are excellent for faceting. The aluminum backs are ground flat and parallel to exacting standards and are made with 100% diamond and bonded with a hard electroplated nickel. The Standard™ discs are also available with a 1/4" - 20 thread screwback mount, allowing you to utilize the full face of the disc. This uninterrupted surface will allow you to handle larger work pieces. Other diameters, mesh sizes and arbor holes are available.

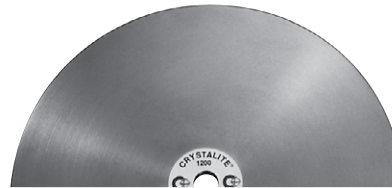
| Mesh | 1/2" Arbor Hole |          | 1/4" - 20 Screwback Mount |          |
|------|-----------------|----------|---------------------------|----------|
|      | 6"              | 8"       | 6"                        | 8"       |
| 100  | C5301210        | C5301410 | C5301610                  | C5301710 |
| 180  | C5301230        | C5301430 |                           |          |
| 260  | C5301250        | C5301450 | C5301630                  | C5301730 |
| 360  | C5301270        | C5301470 |                           |          |
| 600  | C5301290        | C5301490 | C5301650                  | C5301750 |
| 1200 | C5301310        | C5301510 |                           |          |
| 3000 | C5301350        | C5301550 | (No Arbor Hole)           |          |



## MASTER LAP™

This lap is ground flat and parallel and is used as a base plate for other laps. It is 7/16" thick and is not charged with abrasive.

| Dia. | 1/2" Arbor hole | 1/4" - 20 Screwback (no arbor hole) |
|------|-----------------|-------------------------------------|
| 6"   | C5310210        | C5310250                            |
| 8"   | C5310230        | C5310270                            |
| 12"  | C5310240        |                                     |



## SOLID STEEL DISCS

They are absolutely flat and parallel to meet the most exacting faceting requirements. Additionally, these discs have a corrosion resistant copper undercoating. A 1/2" arbor hole is standard (specify other).

| Mesh | 6"       | 8"       |
|------|----------|----------|
| 60   | C5302090 | C5302290 |
| 100  | C5302110 | C5302310 |
| 180  | C5302130 | C5302330 |
| 260  | C5302150 | C5302350 |
| 360  | C5302170 | C5302370 |
| 600  | C5302190 | C5302390 |
| 1200 | C5302210 | C5302410 |
| 1500 | C5302230 | C5302430 |
| 3000 | C5302250 | C5302450 |

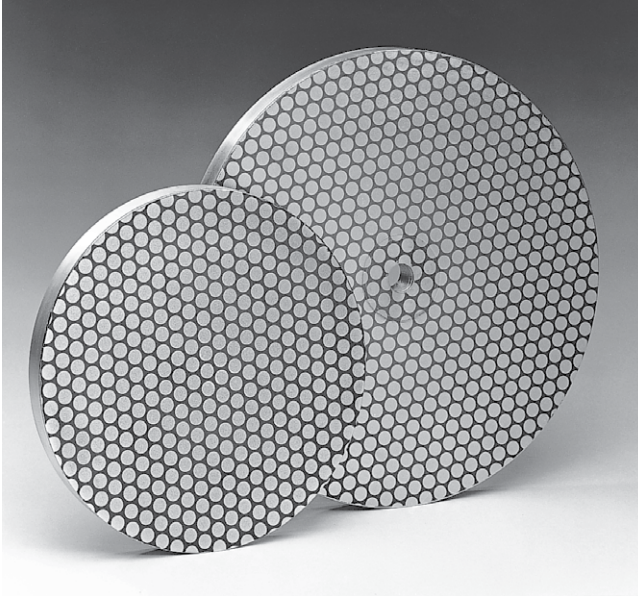


## DISC PROTECTOR™

Each protector will hold one 6" or 8" disc. This protective case will help insure a contamination free environment for your expensive faceting tools. These high impact polystyrene containers are stackable with interlocking grooves for space saving storage.

**Must specify for 1/2" arbor hole or screwback style mounting.**

| Item             | Stock No. |
|------------------|-----------|
| Arbor Hole style | C5243320  |
| Screwback style  | C5243310  |



## DOT DISC™

Now you can handle large work pieces with ease. These dot pattern discs feature aggressive, fast cutting action for rough cabbing and preforming large faceted stones. They are ideal for cutting large flat areas where hydroplaning and grinding force are factors. These discs come with or without an arbor hole. For discs with an arbor, a 1/2" center hole is standard (specify other). Discs without a center hole provide you with a larger working area for glass and stone, allowing you to utilize the full face of the disc. Other diameters, mesh sizes and arbor holes are available.

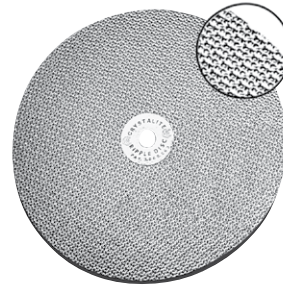
|      |          | 1/2" Arbor Hole |          | 1/4" - 20<br>Screwback Mount<br>(No Arbor Hole) |          | Magnetic Back |          |
|------|----------|-----------------|----------|-------------------------------------------------|----------|---------------|----------|
| Mesh |          | 6"              | 8"       | 6"                                              | 8"       | Mesh          | 12"      |
| 60   | C5304000 |                 | C5304060 | C5304120                                        | C5304180 | 40            | C5031590 |
| 100  | C5304010 |                 | C5304070 | C5304130                                        | C5304190 | 60            | C5031600 |
| 180  | C5304020 |                 | C5304080 | C5304140                                        | C5304200 | 100           | C5031610 |
| 260  | C5304030 |                 | C5304090 | C5304150                                        | C5304210 | 180           | C5031630 |
|      |          |                 |          |                                                 |          | 260           | C5031650 |



## CHANNEL DISC™

This disc has a uniquely shaped working surface of randomly interspaced islands. The resulting channels flush away debris and prevent the stone from pulling down excessively to the lap. It is superb for rough cutting facets and grinding cabochon backs. Note: These discs will cut faster and are coarser than The Standard™ discs. 180 mesh is an excellent cabochon preformer - 360 mesh is superb for facet roughing - 1200 mesh is excellent for facet finishing. 1/2" Arbor hole.

| Mesh | 6"       | 8"       |
|------|----------|----------|
| 180  | C5300110 | C5300310 |
| 260  | C5300130 | C5300330 |
| 360  | C5300150 | C5300350 |
| 600  | C5300170 | C5300370 |
| 1200 | C5300190 | C5300390 |



## RIPPLE DISC™

The fast cutting 100 mesh disc cuts like a 40 mesh and the 180 mesh disc cuts like a 60 mesh. It is excellent for rough cabbing and preforming large faceted stones. As the tips of the ripple forms wear, fresh diamond is exposed, permitting the disc to remain sharp throughout its long life. This disc will cut agate with ease. 1/2" Arbor hole.

| Mesh | 6"       | 8"       |
|------|----------|----------|
| 100  | C5300470 | C5300490 |
| 180  | C5300530 | C5300550 |

| Recommended RPM's |      |      |      |      |
|-------------------|------|------|------|------|
| Disc Diameter     | 3"   | 6"   | 8"   | 12"  |
| Recommended RPM   | 5000 | 3000 | 2000 | 1100 |



## THE TOP™

These discs have been used by commercial cutting houses worldwide. With these laps being made with 100% diamond and bonded with a hard electroplated nickel, the quality and attention to detail keep production contamination down to a minimum. These topper laps do not need to be dressed before use. These laps will require a master lap for support during cutting.

| Mesh | 1/2" Arbor Hole |          |
|------|-----------------|----------|
|      | 6"              | 8"       |
| 60   | C5302510        | C5302530 |
| 100  | C5302511        | C5302531 |
| 180  | C5302512        | C5302532 |
| 260  | C5302513        | C5302533 |
| 360  | C5302514        | C5302534 |
| 600  | C5302515        | C5302535 |
| 1200 | C5302516        | C5302536 |
| 1500 | C5302517        | C5302537 |
| 3000 | C5302518        | C5302538 |
| 8000 | C5302519        | C5302539 |



## MONOCRYSTALLINE DIAMOND

Our MCD is the next generation of polishing grits. It has been tailored to provide the perfect balance between quick polishing speed and smooth finish. Our new 30,000 offering provide an additional option for fast polishing.

| Monocrystalline Diamond |          |
|-------------------------|----------|
| Diamond (25ct)          |          |
| 3K                      | C5413010 |
| 8K                      | C5413030 |
| 14K                     | C5413035 |
| 30K                     | C5413050 |
| 50K                     | C5413070 |
| 100K                    | C5413090 |



## MIRACLE LAP™

### DIAMOND POLISHING LAPS

These laps have been designed for the CrystalMaster™ machine and other machines that use diamond polishing laps. With their long life, multi-layers and PSA backing, they are excellent choice to replace sandpaper. They do not have a center hole which allows you to handle larger work pieces.

| Color Code | Mesh | 6"       | 8"       |
|------------|------|----------|----------|
| Green      | 220  | C5311550 | C5311630 |
| Blue       | 600  | C5311570 | C5311650 |
| Yellow     | 1200 | C5311590 | C5311670 |



## OXY-LAP™

These thin film final polishing laps are made with conventional abrasives. They are packaged in units of 3.

| Abrasive                          | Color | Mesh    | 1/2" Arbor hole |          |
|-----------------------------------|-------|---------|-----------------|----------|
|                                   |       |         | 6"              | 8"       |
| Cerium Plus                       | Blue  | 14,000  | C5312010        | C5312030 |
| Cerium                            | Brown | 14,000  | C5312050        | C5312070 |
| Aluminum                          | Clear | 100,000 | C5312090        | C5312110 |
| Tin                               | White | 14,000  | C5312130        | C5312150 |
| Chrome                            | Green | 50,000  | C5312170        | C5312190 |
| <b>No Arbor hole - PSA backed</b> |       |         |                 |          |
| Cerium Plus                       | Blue  | 14,000  | C5312210        | C5312230 |



| Dia. | Stock No. |
|------|-----------|
| 6"   | C5310110  |
| 8"   | C5310130  |



| Dia. | Stock No. |
|------|-----------|
| 6"   | C5310410  |
| 8"   | C5310430  |



| Dia. | Stock No. |
|------|-----------|
| 6"   | C5310650  |
| 8"   | C5310670  |

## LAST LAP™

When used with diamond slurry, this versatile facet polishing lap will produce a fast polish on quartz, corundum, beryl, peridot, tourmaline, topaz, feldspar and many other materials. The pelletized epoxy matrix resists grooving and gouging. They require precharging and are supplied with a 1 carat vial of 50,000 mesh diamond slurry which is to be worked into the face of the lap. A 1/2" arbor hole is standard.

## TIN LAP

A fine grained rolled tin lap is bonded to our Masterlap™ disc, producing an excellent final polishing lap. This lap will not develop orange peel and scoring is not required. Can be used with Crystalite A™, Cerium Oxide, Tin Oxide or diamond. A 1/2" arbor hole only.

## CERAMIC LAP

Hard stones can be polished with ease, using our ceramic laps. Combined with our 50,000 mesh diamond spray, these laps produce facets that are extremely flat and have a brilliant surface finish. A 1/2" arbor hole only.



## DIAMOND COMPOUND

Always use silicon based compounds for lapidary since they are temperature resistant and will not separate. *Diamond compound must be used with Crystalube™ lubricant to charge Crystalpad™ pads and Crystalbelt™ belts.*

| Micron | Color  | Mesh    | 2 Gram   | 5 Gram   |
|--------|--------|---------|----------|----------|
| 1/4    | Green  | 100,000 | C5410210 | C5410410 |
| 1/2    | Gray   | 50,000  | C5410230 | C5410430 |
| 1      | Ivory  | 14,000  | C5410250 | C5410450 |
| 3      | Yellow | 8,000   | C5410270 | C5410470 |
| 6      | Orange | 3,000   | C5410290 | C5410490 |
| 15     | Blue   | 1,200   | C5410310 | C5410510 |
| 30     | Red    | 600     | C5410330 | C5410530 |
| 45     | Brown  | 325     | C5410350 | C5410550 |
| 60     | Purple | 240     | C5410370 | C5410570 |

## DIAMOND SLURRY

Diamond powder suspended in oil - to be used with our Last Lap™ polishing lap.

| Micron | Mesh   | 5 Carat  |
|--------|--------|----------|
| 1/2    | 50,000 | C5412410 |
| 1      | 14,000 | C5412430 |

## DIAMOND POWDERS

The finest quality diamond; carefully graded for lapidary use. Diamond powders are used to supercharge laps and are excellent for hard stones.

| Micron | Mesh    | 5 Carat  | 100 Carat |
|--------|---------|----------|-----------|
| 1/4    | 100,000 | C5411310 | C5412010  |
| 1/2    | 50,000  | C5411330 | C5412030  |
| 1      | 14,000  | C5411350 | C5412050  |
| 3      | 8,000   | C5411370 | C5412070  |
| 6      | 3,000   | C5411390 | C5412090  |
| 15     | 1,200   | C5411410 | C5412110  |
| 30     | 600     | C5411430 | C5412130  |
| 45     | 325     | C5411450 | C5412150  |
| 60     | 220     | C5411470 | C5412170  |
| 150    | 100     | C5411490 | C5412190  |

## POLISHING POWDER

| Item          | Size  | Stock No. |
|---------------|-------|-----------|
| Crystalite A™ | 4 oz. | C5412620  |
| Crystalite A™ | 1 lb. | C5412610  |
| Cerium Oxide  | 1 lb. | C5412710  |

## CRYSTALCUT™

Recommended wherever diamond wheels are used with water. Crystalcut™ water additive and rust inhibitor should be used with diamond wheels, saw blades and discs. Mix 1 ounce of powder with each gallon of water. (Not available for air shipment)

| Size   | Stock No. |
|--------|-----------|
| 1 oz.  | C5423310  |
| 1 lb.  | C5423330  |
| 5 lb.  | C5423350  |
| 10 lb. | C5423370  |



## SPRAY DIAMOND

Six full carats of first quality diamond powder in a translucent pump spray container, free of fluorocarbons, economical to apply. (Not available for air shipment)

| Micron | Mesh    | Stock No. |
|--------|---------|-----------|
| 1/4    | 100,000 | C5412510  |
| 1/2    | 50,000  | C5412530  |
| 1      | 14,000  | C5412550  |
| 3      | 8,000   | C5412570  |
| 6      | 3,000   | C5412590  |



## CRYSTALUBE™

Crystalube™ silicone oil extender fluid is used with diamond compound and as a cutting lubricant.

| Mesh   | Stock No. |
|--------|-----------|
| 2 dram | C5423010  |
| 2 oz.  | C5423030  |

## Helpful Hints

Always use Crystalube™ lubricant instead of water with any of the diamond polishing media listed. *Except non-diamond polishing powders.*

## NON-FLAMMABLE SPRAY DIAMOND

This new non-volatile compound material can now be shipped by air and internationally.

| Micron | Mesh    | Stock No. |
|--------|---------|-----------|
| 1/4    | 100,000 | C5412810  |
| 1/2    | 50,000  | C5412820  |
| 1      | 14,000  | C5412830  |
| 3      | 8,000   | C5412850  |
| 6      | 3,000   | C5412870  |



## ROUGHING, PREFORMING, PRE-POLISH TOOLS

Ripple Disc™ disc, 180 grit Channel Disc™ disc, 100 grit extra coarse disc, Turbine Wheel® wheel, 60, 80, and 100 grit Crystalring® wheel. Fast stock removal for all gemstones.

**180 Coarse** – Fast facet pre-forming and light cab roughing

**260 & 360 Medium** – General facet pre-forming and cab roughing

**600 Fine** – Light facet pre-forming and cab finish grinding

**1200 Extra Fine** – General pre-polishing finish for faceting

**3000 Ultra Fine** – Super smooth facet pre-polish

## SPEEDS

The recommended speeds are approximate. Use a speed that feels best. Crystalring® wheels are designed to operate at 1725 rpm. Discs may run from 300 to 3000 rpm.

## COOLANT

Mix Crystalcut™ coolant with water, just a little is required for faceting; a light spray for cabbing. NEVER RUN DRY.



## CRYSTALITE® DRESSING STICKS

Sharpen Crystalite® metal bond diamond discs, wheels, diamond saw blades, knives and many other tools with these sticks.

| Item                        | Stock No. |
|-----------------------------|-----------|
| Fine (600 & finer mesh)     | C5431010  |
| Coarse (360 & coarser mesh) | C5431030  |
| Stick Kit (Set of two)      | C5431100  |

*Note: Use the entire face of the wheel to avoid grooving. If slow cutting occurs, dress the face of the wheel with our dressing stick to restore the cutting action. Use with Crystalcut™ rust inhibitor. Additional mesh sizes and wheel dimensions are available.*



## MOUNTING

The arbor should have a true running drive washer. If not, shim for minimum face runout on discs. Peripheral wheels may be run on any true arbor, replacing silicon carbide wheels.

Many diamond product users are cautious about using pressure when grinding and polishing. We recommend using heavy pressure whenever required, but particularly for roughing and polishing. Crystalite® diamond products are built to take this kind of use. A flow finish polish definitely requires heavy pressure.

## LABEL

Crystalpad™ pads with the corresponding compound mesh size. Store pads separately in individual poly bags. When adding an occasional drop of lubricant to the stone or pad, do not allow the Crystalube™ lubricant bottle tip to contact the pad. Use Crystalite® Disc Protector™ containers (pg.4) for each lap and disc.

## CONTAMINATION

Keep polishing discs away from grinding wheels and each other to avoid contamination. The stone and hands should be washed or solvent cleaned between polishing operations.

## GRINDING & POLISHING JADE OR AGATE

This choice of wheels is presented as a general guide. For rough grinding on softer materials, a finer grit may be used than the one shown below.

**Rough Grind:** Ripple Disc™ disc, 100 grit disc, 100 grit Crystalring® wheel, 100 or 180 grit Turbine Wheel®/Diamondback™ wheels

**Fine Grind:** 600 grit regular or Channel Disc™ disc, 600 grit Crystalring® wheel

**Smoothing:** 325 mesh compound charged into a Crystalbelt™ belt or pre-polish Crystalpad™ pad

**Semi-polish:** 1200 mesh compound charged into a Crystalbelt™ belt or pre-polish Crystalpad™ pad

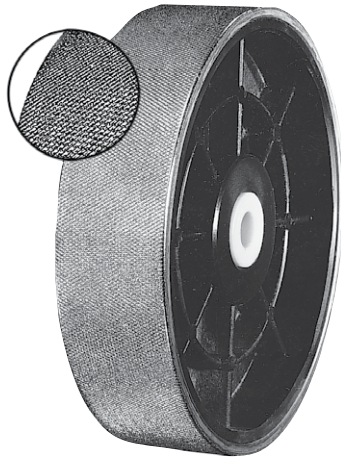
**Polish:** 50,000 mesh compound charged onto a final polish Crystalpad™ pad. The addition of approximately 1/2 carat of diamond powder after the compound produces excellent results.



## CRYSTALRING®

This efficient, lightweight wheel features a uniform, continuous diamond coating. No voids exist in the seamless steel rim of this electroplated wheel. Crystalring® wheels are designed to run on conventional cabochon units operating at 1725 rpm. The 1" arbor

| Mesh | 4" x 1-1/2" | 6" x 1"  | 6" x 1-1/2" | 8" x 1-1/2" |
|------|-------------|----------|-------------|-------------|
| 60   | C5321290    | C5322010 | C5323210    |             |
| 80   | C5322030    | C5323230 |             |             |
| 100  | C5320150    | C5321310 | C5322050    | C5323250    |
| 180  | C5321330    | C5322070 | C5323270    |             |
| 220  | C5320170    | C5321350 | C5322090    | C5323290    |
| 360  | C5320190    | C5321370 | C5322110    | C5323310    |
| 600  | C5320210    | C5321390 | C5322130    | C5323330    |
| 1200 | C5320230    |          |             |             |



## DIAMONDBACK™

This aggressive diamond wheel is uniquely designed with an interrupted cutting surface which delivers a definite metallic uplift. *It contains one-third more diamond than our regular Crystalring® wheel, producing a longer lasting wheel with a higher cutting rate.* The 360 mesh wheel is capable of roughing stones while yielding a gentle finish. The 1" arbor hole is bushed to 3/4", 5/8", and 1/2".

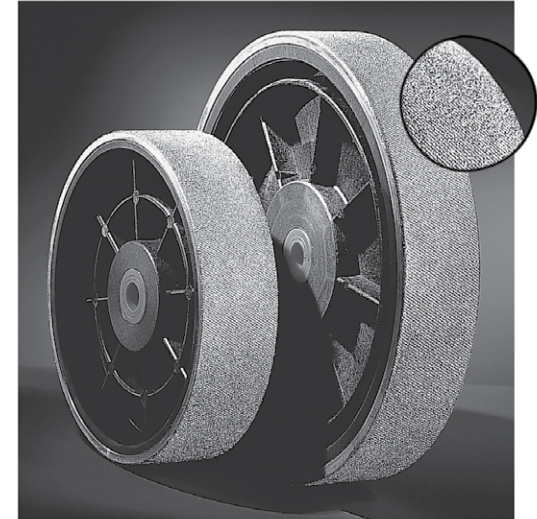
| Mesh | 6" x 1-1/2" | 8" x 1-1/2" |
|------|-------------|-------------|
| 100  | C5328210    | C5328310    |
| 180  | C5328230    | C5328330    |
| 360  | C5328270    | C5328370    |

### Helpful Hints

1. Allow wheels to spin dry after use.
2. Use Crystalcut™ additive in water to inhibit rust.

### Recommended RPM's

| Wheel Diameter  | 4"   | 6"   | 8"   |
|-----------------|------|------|------|
| Recommended RPM | 2500 | 1725 | 1400 |



## TURBINE WHEEL®

This diamond wheel has a unique, saw toothed profile. *As the crests wear, sharp fresh diamond is exposed, making it one of the fastest roughing wheels ever built for preforming agate, jasper, and other hard stones.* The 1" arbor hole is bushed to 3/4", 5/8", and 1/2". Recommended operating speed is 1500 to 2000 rpm.

| Mesh | 6" x 1-1/2" | 8" x 1-1/2" |
|------|-------------|-------------|
| 40   | C5325950    | C5326950    |
| 100  | C5326010    | C5327010    |
| 180  | C5326030    | C5327030    |
| 260  | C5326050    | C5327050    |



## SPHERICAL MIRACLE™

### RADIUSSED WHEELS

Now you can grind a spherical depression in your workpiece. The radius design produces more cutting power than conventional flat wheels, delivering a double bite. This wheel promotes high visibility of the point of contact with the stone, allowing you precise control of the cutting outline. The Spherical Miracle™ wheel will also remove punting marks. The 1" arbor hole is bushed to 3/4", 5/8" and 1/2".

- Excellent for lapidary and light glass work.

| Mesh | 6" x 1-1/2" | 8" x 1-1/2" |
|------|-------------|-------------|
| 100  | C5329110    | C5329330    |
| 360  | C5329130    | C5329370    |
| 600  | C5329140    | C5329390    |



## DUAL CRYSTALHEART™ WHEEL

Designed to make perfect heart shapes every time. The wheel has a small and large heart configuration with a flat middle surface for O.D. cutting.

| Size        | Mesh | Stock No. |
|-------------|------|-----------|
| 6" x 1 1/2" | 180  | C5353210  |
| 6" x 1 1/2" | 260  | C5353230  |
| 6" x 1 1/2" | 600  | C5353290  |



## 5" DISH LAP

Excellent for cabochons.  
1/2" bore.

| Mesh | Stock No. |
|------|-----------|
| 180  | C5303510  |
| 600  | C5303530  |
| 1200 | C5303550  |



## CABLAP™ & DOUBLE CABLAP™

These special grooved, hard fiber phenolic laps are used for final shaping and polishing of sapphire, ruby and garnet (not for faceting). The laps retain their diamond compound charge efficiently. (Double Cablap™ lap, 2 grooves; Cablap™ lap, 1 groove). A 1/2" arbor hole is standard.

| Dia.                   | Stock No. |
|------------------------|-----------|
| 6" Double Cablap™ disc | C5310710  |
| 6" Cablap™ disc        | C5310810  |



## PHENOLIC LAP

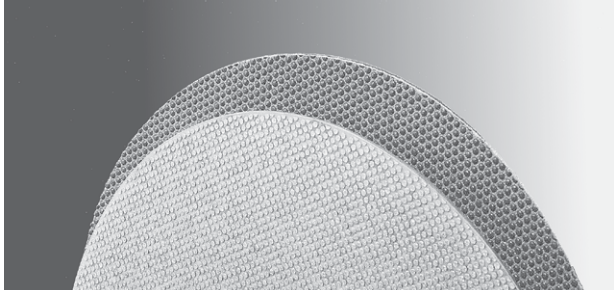
This precision surfaced universal lap is ideal for charging with diamond compound and Crystalube™ lubricant or with water and conventional abrasives such as cerium and tin oxide. Its light weight will replace heavy metal laps and lucite. This lap will polish facets extremely flat. A 1/2" arbor hole is standard.

| Dia. | Stock No. |
|------|-----------|
| 6"   | C5310310  |
| 8"   | C5310330  |

*For polishing hearts see Phenolic V wheels (above) and pg. 13 for diamond compound.*

## GLASS

All metal bond products are applicable to cutting and beveling glass.



## FLEXIBLE DIAMOND LAPS

- Use wet
- Plated system for grinding
- Semi-flexible fiberglass backing
- Resin system for polishing
- PSA, Hook & loop, and magnetic backing available

| DIAMOND PLATED GRINDING SYSTEM |    |     |     |     |     |
|--------------------------------|----|-----|-----|-----|-----|
| Diamond Mesh                   | 70 | 120 | 220 | 400 | 600 |

Flexible diamond laps - PSA back (call for other sizes & backing options)

|                               |          |          |          |          |          |
|-------------------------------|----------|----------|----------|----------|----------|
| 6" - 1/2" arbor hole          | C5315010 | C5315030 | C5315050 | C5315070 | C5315090 |
| 6" - no arbor hole            | C5315110 | C5315130 | C5315150 | C5315170 | C5315190 |
| 8" - 1/2" arbor hole          | C5315210 | C5315230 | C5315250 | C5315270 | C5315290 |
| 8" - no arbor hole            | C5315310 | C5315330 | C5315350 | C5315370 | C5315390 |
| 12" - magnetic, no arbor hole | C5315910 | C5315930 | C5315950 | C5315970 | C5315990 |

| DIAMOND RESIN POLISHING SYSTEM |     |     |     |      |      |
|--------------------------------|-----|-----|-----|------|------|
| Diamond Mesh                   | 220 | 600 | 800 | 1800 | 3500 |

Flexible diamond laps - PSA back (call for other sizes & backing options)

|                               |          |          |          |          |          |
|-------------------------------|----------|----------|----------|----------|----------|
| 6" - 1/2" arbor hole          | C5315410 | C5315430 | C5315450 | C5315470 | C5315490 |
| 6" - no arbor hole            | C5315510 | C5315530 | C5315550 | C5315570 | C5315590 |
| 8" - 1/2" arbor hole          | C5315610 | C5315630 | C5315650 | C5315670 | C5315690 |
| 8" - no arbor hole            | C5315710 | C5315730 | C5315750 | C5315770 | C5315790 |
| 12" - magnetic, no arbor hole | C5316110 | C5316130 | C5316150 | C5316170 | C5316180 |

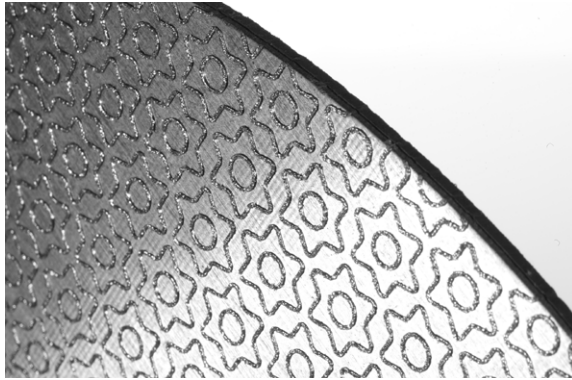


## CRYSTALPAD™ & POLYPAD™

These pads are engineered to eliminate orange peel and undercutting.

- Crystalpad™ pre-polish pads are used with diamond compound 1200 or coarser.
- Crystalpad™ final polish pads are excellent for the final polish, using 3,000, 8,000, 14,000, and 50,000 mesh diamond compound. They have the necessary drag to flow finish a gemstone. Using these pads will prevent undercutting and produce a showcase finish on almost all lapidary stones. Use Crystalube™ lubricant with the diamond compound. Do not use water. Additional sizes are available.
- Polypad™ fiber pads are made from a leather-like urethane and are used with conventional polishing powders (never with diamond compound), including linc "A" and tin and cerium oxide. These soft pads are an excellent choice for opal.

| Item         | 4"       | 6"       | 8"       | Magnetic Back |          |
|--------------|----------|----------|----------|---------------|----------|
|              |          |          |          | Item          | 12"      |
| Pre-polish   | C5400210 | C5400230 | C5400250 | Pre-polish    | C5400270 |
| Final polish | C5400310 | C5400330 | C5400350 | Final polish  | C5400370 |
| Polypad      | C5400510 | C5400530 | C5400550 | Polypad       | C5400580 |



## GENESIS STARLAP™

The affordable large diameter diamond lap

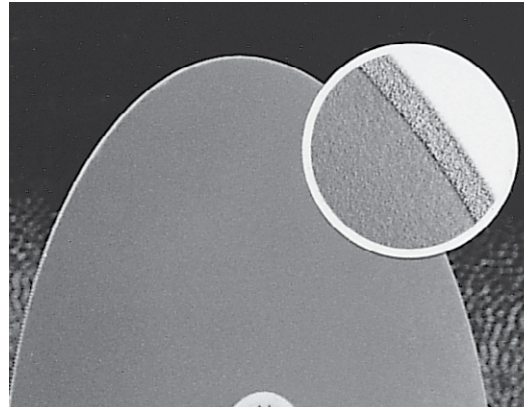
- Cost effective on large platen machines
- Controlled diamond placement
- Exceptionally fast grind rates
- Excellent chip clearance
- Discs supplied with magnetic backing
- Custom sizes & backings available

| Grit | Diameter |          |          |          |
|------|----------|----------|----------|----------|
|      | 12       | 18       | 20       | 24       |
| 70   | C5404110 | C5406110 |          | C5407110 |
| 120  | C5404120 |          |          | C5407120 |
| 150  | C5404130 | C5406130 |          | C5407130 |
| 220  | C5404140 |          | C5409140 |          |
| 300  | C5404145 | C5406145 |          | C5407145 |
| 600  |          |          | C5409160 |          |

### Helpful Hints

Approximate initial compound charge for these pads.

| Item         | 4"        | 6"       | 8"       | 12"      |
|--------------|-----------|----------|----------|----------|
| Pre-polish   | 2/10 gram | 1/3 gram | 1/2 gram | 3/4 gram |
| Final polish | 1/4 gram  | 1/2 gram | 3/4 gram | 2 gram   |
| Polypad      | 1/4 gram  | 1/2 gram | 3/4 gram | 2 gram   |



## PRIMECUT™

These diamond saw blades set a new standard for thin diamond blades. Manufactured with our own proprietary diamond plating process, these 100/120 mesh blades will cut faster, last longer and run truer than any other blade we offer. Primecut™ saw blades feature:

- Continuous diamond plating on cutting edge
- 3/32" return of diamond down the sides
- Serrated cutting edge surface
- Improved diamond coverage and plating

Additional sizes available.

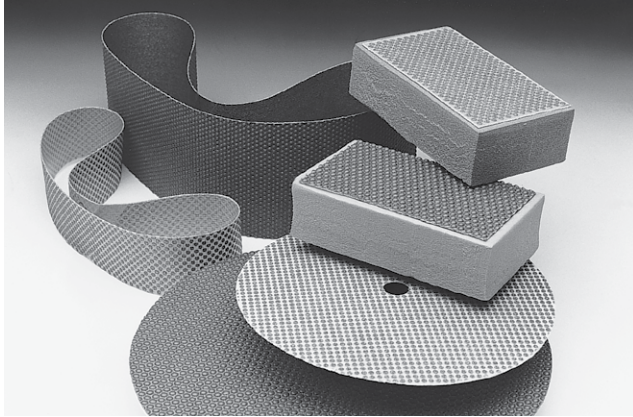
| Diameter | Rim  | Center Hole |          |
|----------|------|-------------|----------|
|          |      | 1/2"        | 5/8"     |
| 4"       | .025 | C5555030    | C5555040 |
| 6"       | .025 | C5555110    | C5555120 |
| 6"       | .033 | C5555130    | C5555140 |
| 8"       | .025 | C5555150    | C5555160 |
| 8"       | .035 | C5555170    | C5555180 |
| 10"      | .042 | C5555190    | C5555200 |



## DIAMOND WIRE SAW

The diamond wire hand saw has many lapidary uses. A complex shape has been sawed in the Brazilian agate slab shown above.

| Item                                      | Stock No. |
|-------------------------------------------|-----------|
| Barbed wire saw - 180 mesh, 5-1/8" x .032 | C5202310  |
| Barbed wire saw & frame kit               | C5202400  |
| Round wire saw - 180 mesh, 5-1/8" x .027  | C5202510  |
| Round wire saw & frame kit                | C5202600  |



## DIAMOND BELTS & HAND PADS

### PLATED GRINDING

- Use wet
- Excellent grinding results
- Wear resistant joint
- Semi-flexible belt helps to reduce flats
- Hand pads for detail work

### RESIN POLISHING

- Use wet
- Excellent polishing results
- Polyester backing
- Wear resistant joint
- Polish a variety of shapes
- Hand pads for detail work

### Helpful Hints

A lighter hand pressure is required for diamond belts as compared to silicon carbide belts.  
Recommended belt RPM's: 1725-1800.



### CRYSTALBELT™

This resin treated fabric belt is designed to be used with Crystalube™ lubricant and diamond compound for smoothing and polishing gems. A flush seam allows the belt to be run in either direction. 3 per pkg.

| Dia. x Width | Belt Length | Stock No. |
|--------------|-------------|-----------|
| 6" x 1-1/2"  | 18-15/16"   | C5400110  |
| 6" x 2-1/2"  | 18-15/16"   | C5400130  |
| 8" x 3"      | 25-7/32"    | C5400150  |



### EXPANDING DRUMS

Rubberized expanding drums are designed to be used with any of our belts. The arbor is bushed to 3/4", 5/8" and 1/2".

| Size       | Stock No. |
|------------|-----------|
| 6 x 1-1/2" | C5408010  |
| 6 x 2-1/2" | C5408030  |
| 8 x 3"     | C5408070  |

### Diamond Plated Grinding System

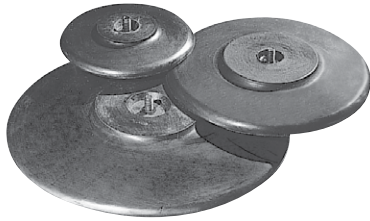
| Diamond Mesh                                           | 70       | 120      | 220      | 400      | 600      |
|--------------------------------------------------------|----------|----------|----------|----------|----------|
| <b>Diamond BELTS</b> (to be used with expanding drums) |          |          |          |          |          |
| 6 x 1-1/2 (18-15/16 x 1-1/2)                           | C5403010 | C5403030 | C5403050 | C5403070 | C5403090 |
| 6 x 2-1/2 (18-15/16 x 2-1/2)                           | C5403110 | C5403130 | C5403150 | C5403170 | C5403190 |
| 8 x 3 (25-7/32 x 3)                                    | C5403310 | C5403330 | C5403350 | C5403370 | C5403390 |
| <b>Diamond HAND PADS</b>                               |          |          |          |          |          |
| 4 x 2-1/4 x 1-1/4                                      | C5405010 | C5405030 | C5405050 | C5405070 | C5405090 |

### Diamond Resin Polishing System

| Diamond Mesh                                           | 220      | 600      | 800      | 1800     | 3500     |
|--------------------------------------------------------|----------|----------|----------|----------|----------|
| <b>Diamond BELTS</b> (to be used with expanding drums) |          |          |          |          |          |
| 6 x 1-1/2 (18-15/16 x 1-1/2)                           | C5403410 | C5403430 | C5403450 | C5403470 | C5403490 |
| 6 x 2-1/2 (18-15/16 x 2-1/2)                           | C5403510 | C5403530 | C5403550 | C5403570 | C5403590 |
| 8 x 3 (25-7/32 x 3)                                    | C5403710 | C5403730 | C5403750 | C5403770 | C5403790 |
| <b>Diamond HAND PADS</b>                               |          |          |          |          |          |
| 4 x 2-1/4 x 1-1/4                                      | C5405110 | C5405130 | C5405150 |          | C5405190 |
| 4 x 2-1/4 x 1-1/4                                      |          |          |          | C5405170 |          |

| Mesh | System | Results                        |
|------|--------|--------------------------------|
| 120  | Plated | General grinding needs         |
| 600  | Plated | Light Roughing - final shaping |

| Mesh      | System | Results                        |
|-----------|--------|--------------------------------|
| 600       | Resin  | Sanding                        |
| 1800/3500 | Resin  | Pre-polish - removes scratches |



| Size | Stock No. |
|------|-----------|
| 4"   | C5401410  |
| 6"   | C5401430  |
| 8"   | C5401450  |

## FLEXODISC™

Used for backing diamond laps, Crystalpad™ and Polypad™ pads, these solid rubber discs have a 1/4" - 20 thread screwback mount. They will take heavy hand pressure and are a must for polishing small flats such as the back of a cabochon.

*Note: They have righthand threads only and must be used on shafts that rotate counter-clockwise as viewed from the shaft end. Adapters are available.*



Stock No.  
C5401500

## FLEXOPAD™ KIT

Everyone can smooth and polish with diamond. This easy-to-use kit will adapt to a motor or cab unit (the shaft must run counter-clockwise as viewed from shaft end).

Kit includes:

- Three 6" Flexodisc™ discs
- Three 6" Crystalpad™ pads
- Two 6" Polypad™ pads
- Three shaft adapters for 3/8", 1/2" and 5/8" diameter straight shafts. The kit comes complete with allen wrench and set screws.

## FOAM PADS

PSA backed foam pads serve as a backing for your polishing pads and mount directly to the Master Lap™ lap or Flexodisc™ disc.

| Size | Stock No. |
|------|-----------|
| 4"   | C5401890  |
| 6"   | C5401910  |
| 8"   | C5401930  |



## MINIFLEX™ DISCS

Miniflex™ diamond discs are available in plated and resin systems for sanding and polishing a variety of materials. These discs are available in 1/2", 1" and 1-1/2" diameters with PSA backing and are designed for use with the mini Flexodisc™ discs. Hook & loop backing and other sizes are available upon request. Mini Flexodisc™ discs are a miniature version of our larger Flexodisc™ discs. Use wet.

| Mesh                                                | 1/2" Diameter Stock No. | 1" Diameter Stock No. | 1-1/2" Diameter Stock No. |
|-----------------------------------------------------|-------------------------|-----------------------|---------------------------|
| <b>DIAMOND PLATED SANDING SYSTEM</b>                |                         |                       |                           |
| 70                                                  | C5314010                | C5314110              | C5314210                  |
| 120                                                 | C5314030                | C5314130              | C5314230                  |
| 220                                                 | C5314050                | C5314150              | C5314250                  |
| 400                                                 | C5314070                | C5314170              | C5314270                  |
| 600                                                 | C5314090                | C5314190              | C5314290                  |
| <b>DIAMOND RESIN POLISHING SYSTEM</b>               |                         |                       |                           |
| 600                                                 | C5314430                | C5314510              | C5314590                  |
| 800                                                 | C5314450                | C5314530              | C5314610                  |
| 1800                                                | C5314470                | C5314550              | C5314630                  |
| 3500                                                | C5314490                | C5314570              | C5314650                  |
| <b>MINI CRYSTALPAD™ PRE-POLISH PADS (12/PKG.)</b>   |                         |                       |                           |
|                                                     | C5201910                | C5201930              | C5201950                  |
| <b>MINI CRYSTALPAD™ FINAL POLISH PADS (12/PKG.)</b> |                         |                       |                           |
|                                                     | C5201610                | C5201630              | C5201650                  |
| <b>MINI POLYPAD™ PADS (12/PKG.)</b>                 |                         |                       |                           |
|                                                     | C5201710                | C5201730              | C5201750                  |
| <b>MINI FLEXODISC™ DISCS (1/8" SHANK MANDREL)</b>   |                         |                       |                           |
|                                                     | C5201810                | C5201830              | C5201850                  |

### MINI FLEXODISC™ KIT (84 PIECES)

C5201900

Kit includes:

|                                                                     |        |
|---------------------------------------------------------------------|--------|
| 4 ea. rubber mini Flexodisc™ discs in sizes 1/2", 1", 1 1/2"        | 12 pcs |
| 4 ea. mini Polypad™ pads in sizes 1/2", 1", 1 1/2"                  | 12 pcs |
| 4 ea. mini Crystalpad™ pre-polish pads in sizes 1/2", 1", 1 1/2"    | 12 pcs |
| 12 ea. mini Crystalpad™ final polish pads in sizes 1/2", 1", 1 1/2" | 36 pcs |
| 12 mandrels                                                         | 12 pcs |



## THIN-FLEX® DIAMOND DISCS

These high quality diamond discs can be used for a variety of operations such as slicing, grooving, roughing and smoothing. A 1/16" bore hole is standard for these discs. Mandrels are not included for individual discs.

|           | Thickness                                                                         | Mesh | Dia.   | Stock No. |
|-----------|-----------------------------------------------------------------------------------|------|--------|-----------|
| FACE DISC |  | 180  | 1-1/4" | C5200810  |
|           |                                                                                   | 500  | 1-1/4" | C5200830  |
| SLITTER   |  | 180  | 1"     | C5200850  |
| MANDREL   | 1/16" arbor, 3/32" shank                                                          |      |        | C5432240  |

## THIN-FLEX® KIT

The Thin-Flex® kit includes one 1-1/4" and one 1" diameter 180 mesh discs with mandrel (1/16" arbor hole, 3/32" shank).

Stock No.  
C5200900

## MANDRELS

For mounting wheels and discs.

| Item                     | Stock No. |                             |
|--------------------------|-----------|-----------------------------|
| 1/8" arbor, 1/8" shank   | C5432210  | (For mini Flexodisc™ discs) |
| 1/16" arbor, 1/8" shank  | C5432230  | (For Thin-Flex® discs)      |
| 1/16" arbor, 3/32" shank | C5432240  | (For Thin-Flex® discs)      |



## CORECAB™ (1/8" SHANK)

Now make perfect round cabochons of any material easily and quickly. Handy for portions of carvings such as eyes. Brazed diamond.

| Mesh | 5mm      | 8mm      | 12mm     |
|------|----------|----------|----------|
| 120  | C5200130 | C5200150 | C5200170 |
| 260  | C5200140 | C5200160 | C5200180 |

## FILES

Perfect for inlay and trimming stones. Carvers find it handy for delicate sculpturing and smoothing. The file is 4" long by 7/16" wide with diamond plating on one side. Kit comes packaged with 2 dram bottle of Crystalube™ lubricant.

| Individual Files    |           |
|---------------------|-----------|
| Mesh                | Stock No. |
| 320                 | C5201010  |
| 600                 | C5201030  |
| File Kit (Set of 2) | C5201100  |



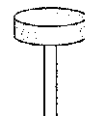
Stock No.  
C5202010

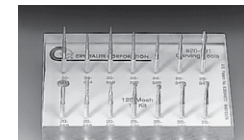
## MINI TURBINE WHEEL®

A miniature version of our larger Turbine Wheel® tools; 1" diameter, 1/4" wide. This wheel is an aggressive cutter. Made from one piece of heat treated steel with a 1/8" diameter shaft. 80 mesh diamond plating with a 1/16" wrap around the sides.

## PHENOLIC POINTS (1/8" SHANK)

(Use with diamond compound and Crystalube™ lubricant)

|  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Max. Tip Diameter                                                                                        |                                                                                                            |                                                                                                            |                                                                                                            |                                                                                                            |
| 1/2"                                                                                                     | 5/16"                                                                                                      | 5/16"                                                                                                      | 1/4"                                                                                                       | 1"                                                                                                         |
| C5204030                                                                                                 | C5204040                                                                                                   | C5204050                                                                                                   | C5204060                                                                                                   | C5204130                                                                                                   |



## 120-14 Diamond Point Kit

| Mesh | Stock No. |
|------|-----------|
| 120  | C5205910  |

## 260-14 Diamond Point Kit

| Mesh | Stock No. |
|------|-----------|
| 260  | C5205920  |



## CORE DRILLS

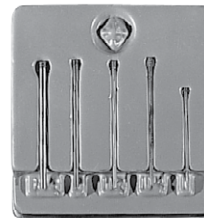
These 80 mesh brazed diamond core drills will provide faster cutting with longer life. Diamonds have been bonded with the P.B.S.® process. (See on pg. 14). Metric sizes also available.

| O.D.   | I.D. (Inches) | I.D. (mm) | Shank | Stock No. |
|--------|---------------|-----------|-------|-----------|
| 3.5mm  | .064"         | 1.63 mm   | 1/8"  | C5210010  |
| 1/4"   | .156"         | 4.0 mm    | 3/16" | C5210030  |
| 5/16"  | .223"         | 5.7 mm    | 3/16" | C5210050  |
| 3/8"   | .283"         | 7.2 mm    | 1/4"  | C5210070  |
| 7/16"  | .343"         | 8.7 mm    | 1/4"  | C5210090  |
| 1/2"   | .403"         | 10.2 mm   | 1/4"  | C5210110  |
| 9/16"  | .473"         | 12.0 mm   | 1/4"  | C5210130  |
| 5/8"   | .533"         | 13.5 mm   | 1/4"  | C5210150  |
| 11/16" | .668"         | 24.6 mm   | 1/4"  | C5210170  |
| 3/4"   | .653"         | 16.6 mm   | 1/4"  | C5210190  |
| 1"     | .903"         | 22.9 mm   | 5/16" | C5210210  |
| 1 1/2" | 1.403"        | 35.6 mm   | 3/8"  | C5210230  |
| 1 3/4" | 1.653"        | 42.0 mm   | 3/8"  | C5210240  |
| 2"     | 1.903"        | 48.3 mm   | 3/8"  | C5210250  |
| 2 1/4" | 2.156"        | 54.8 mm   | 3/8"  | C5210270  |
| 3"     | 2.903"        | 73.7 mm   | 3/8"  | C5210280  |
| 3 1/2" | 3.403"        | 86.4 mm   | 3/8"  | C5210290  |
| 4"     | 3.903"        | 99.1 mm   | 3/8"  | C5210300  |

## DRILLS

Blocky diamond is bonded to a flexible music wire providing a positive clearance (kerf). Allowing drilling without jamming.

| MM   | Pkg. of 6 | Pkg. of 25 | Pkg. of 100 |
|------|-----------|------------|-------------|
| .75  | C5210510  | C5220510   | C5250510    |
| 1.00 | C5210530  | C5220530   | C5250530    |
| 1.25 | C5210550  | C5220550   | C5250550    |
| 1.50 | C5210570  | C5220570   | C5250570    |
| 2.00 | C5210590  | C5220590   | C5250590    |
| 2.50 | C5210610  | C5220610   | C5250610    |



**Standard Drill Kit**  
Contains **one** each:

- 1mm
- 1-1/4mm
- 1-1/2mm
- 2mm
- 2-1/2mm

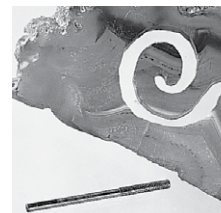
**Stock No.**  
C5210700



**Value Pack Drill Kit**  
Contains **two** each:

- 1mm
- 1-1/4mm
- 1-1/2mm

**Stock No.**  
C5210800



| Dia.  | Stock No. |
|-------|-----------|
| 3/32" | C5201210  |
| 1/8"  | C5201230  |

## KEYHOLE ROUTER

Brazed diamond coating with 100 mesh diamond. Excellent for inlay fitting, slotting and heavy routing. The diamond coating length is 5/8 inch.



## TRIPLE RIPPLE™ DRILL

Twice the life and cutting rate of standard diamond drills. This music wire diamond drill has three flutes to allow cuttings to flush away and decreases frontal contact and drag. As the edges wear, fresh diamond in the flutes maintains the cutting action.

| MM   | Pkg. of 6 | Pkg. of 25 | Pkg. of 100 |
|------|-----------|------------|-------------|
| .75  | C5210890  | C5220890   | C5250890    |
| 1.10 | C5210910  | C5220910   | C5250910    |
| 1.40 | C5210930  | C5220930   | C5250930    |
| 1.80 | C5210950  | C5220950   | C5250950    |
| 2.10 | C5210970  | C5220970   | C5250970    |

## TRIPLE RIPPLE™ DUO PACK

Contains **three** each:

- 1.1mm
- 1.4mm

**Stock No.**  
C5212000

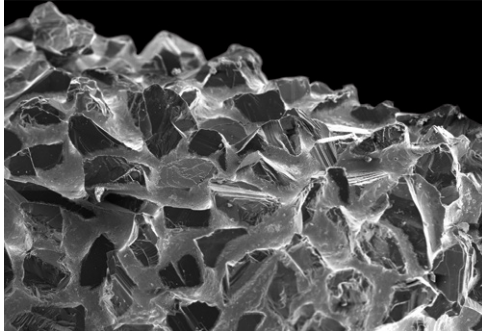


## Helpful Hints

All our drills are intended to be used with a continuous flow of water or other lubricant to prevent material build up. Recommended operating speed for all drill bits is 5,000-20,000 RPM.



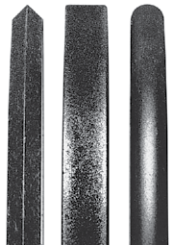
## DIAMOND POINT™ THE CARVER'S ADVANTAGE



### P.B.S.® Bond Brazed Diamond Carving Tools

Our unique, technically advanced diamond bonding system individually brazes each diamond crystal in place. This completely eliminates the loss of diamond particles through pull-out. In addition, the diamond section will never strip off or peel. Other advantages are:

- P.B.S.® tools HOLD CRITICAL SHAPES for the life of the diamond crystal.
- No dressing or shaping is required.
- The cutting action is FAST with NO LOADING.
- P.B.S.® bond tools RUN COOLER, transferring less heat to the work piece.



## FANTASY WHEELS

Excellent diamond forms for fantasy cutting. Use phenolic form and diamond compound for polishing.

| Item                    | Mesh | 1 x 1/8 x 1/8 | 4 x 1/8 x 1/2 | 4 x 1/4 x 1/2 | 6 x 3/8 x 1/2 |
|-------------------------|------|---------------|---------------|---------------|---------------|
| V Wheel                 | 100  | C5354060      | C5354510      | C5354550      | C5354200      |
|                         | 600  | C5354110      | C5354530      | C5354570      | C5354290      |
| Straight Edge Wheel     | 100  | C5324010      | C5324070      | C5324110      | C5324210      |
|                         | 600  | C5324050      | C5324090      | C5324190      | C5324290      |
| Full Circle Wheel       | 100  | C5324910      | C5325010      | C5325110      | C5325210      |
|                         | 600  | C5324950      | C5325090      | C5325190      | C5325290      |
| Phenolic V†             |      | C5355310      | C5355330      | C5355350      | C5355270      |
| Phenolic Straight Edge† |      | C5324310      | C5324320      | C5324330      | C5324350      |
| Phenolic Full Circle†   |      | C5325300      | C5325310      | C5325330      | C5325350      |

†Use with diamond compound & Crystalube™ cutting lubricant or other polishing media.

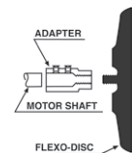
## 1/8" Shank

| Style/<br>Shape | Max Tip Dia.<br>(Inches) | Diamond Mesh |          |
|-----------------|--------------------------|--------------|----------|
|                 |                          | 120          | 260      |
| BUTTONHEAD      |                          |              |          |
|                 | .25                      | C5203630     | C5203640 |
| BALL            |                          |              |          |
|                 | .25                      | C5203650     | C5203660 |
| CYLINDER        |                          |              |          |
|                 | .25                      | C5203670     | C5203680 |
| CONE            |                          |              |          |
|                 | .25                      | C5203690     | C5203700 |
| VALVEHEAD       |                          |              |          |
|                 | .37                      | C5203900     | C5203940 |
|                 | .50                      | C5203910     | C5203950 |
| CARTWHEEL       |                          |              |          |
|                 | .37                      | C5203000     | C5203070 |
|                 | .50                      | C5203010     | C5203080 |
|                 | .75                      | C5203020     | C5203090 |



## SHAFT ADAPTERS

Adapt Flexodisc™ discs to any running arbor shaft with these adapters. Use Flexodisc™ discs ONLY.



| Shaft Size                    | Stock No. |
|-------------------------------|-----------|
| 3/8" dia. straight shaft      | C5400610  |
| 1/2" dia. straight shaft      | C5400630  |
| 1/2" - 20 thread (right hand) | C5400650  |
| 5/8" dia. straight shaft      | C5400670  |
| 5/8" - 18 thread (right hand) | C5400690  |
| 3/4" dia. straight shaft      | C5400710  |
| 3/4" - 16 thread (right hand) | C5400730  |
| 1" - 14 thread (right hand)   | C5400750  |



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**WARNING:**  
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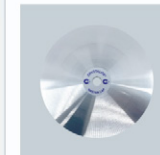
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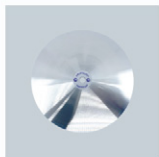
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