



Crystalite

AN  BRAND
abrasive
technology

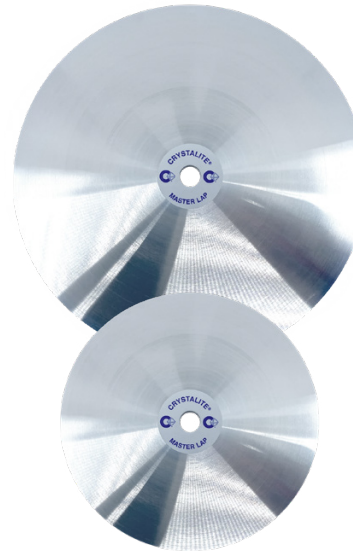
DIAMOND TOOLS FOR LAPING & POLISHING



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. Additional sizes are available.

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). *Additional sizes are available.*

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



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.

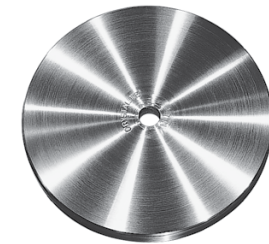
Abrasive	Color	Mesh	1/2" Arbor hole	
			6"	8"
Cerium Plus	Blue	14,000	C5312010	C5312030
Cerium	Brown	14,000	C5312050	C5312070
Aluminum	Clear	100,000	C5312090	C5312110
Tin	White	14,000	C5312130	C5312150
Chrome	Green	50,000	C5312170	C5312190
No Arbor hole - PSA backed				
Cerium Plus	Blue	14,000	C5312210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



Dia.	Stock No.
6"	C5310110
8"	C5310130

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.



Dia.	Stock No.
6"	C5310410
8"	C5310430

TIN LAP

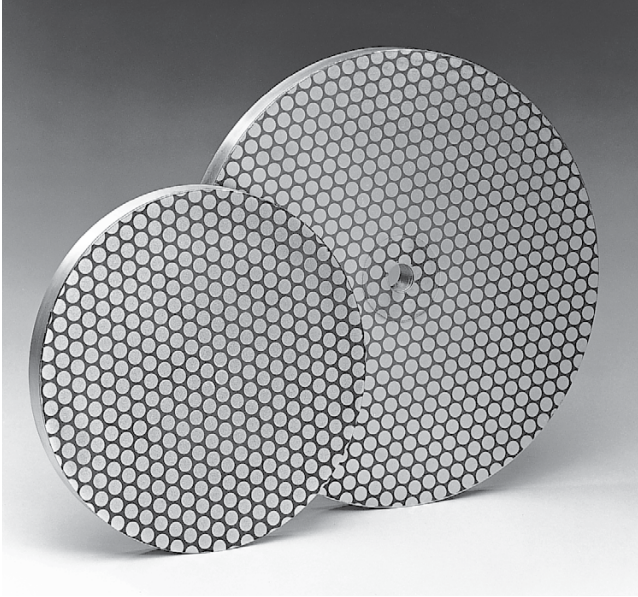
A fine grained rolled tin lap is bonded to our Masterlap™ disc, producing an excellent final polishing lap. This lap will not develop orange peel and scoring is not required. Can be used with Crystalite A™, Cerium Oxide, Tin Oxide or diamond. A 1/2" arbor hole only.



Dia.	Stock No.
6"	C5310650
8"	C5310670

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.



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.

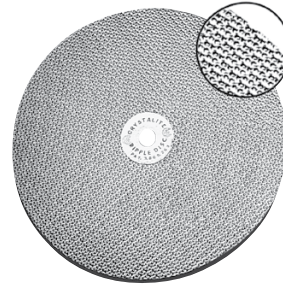
		1/4" - 20 Screwback Mount (No Arbor Hole)				Magnetic Back	
		1/2" Arbor Hole				Mesh	12"
Mesh		6"	8"	6"	8"		
60	C5304000	C5304060		C5304120	C5304180	40	C5031590
100	C5304010	C5304070		C5304130	C5304190	60	C5031600
180	C5304020	C5304080		C5304140	C5304200	100	C5031610
260	C5304030	C5304090		C5304150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



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

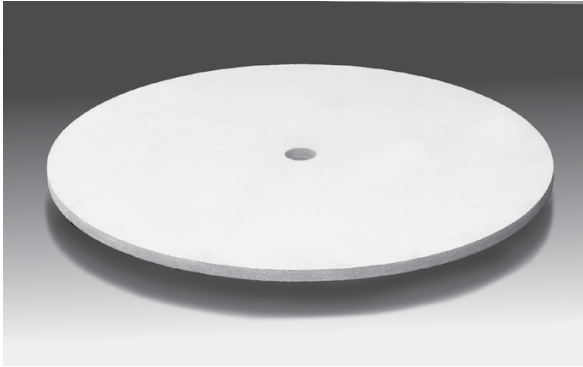
Helpful Hints

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



CRYSTMET™

SINTERED METAL BOND DISCS

These sintered metal bond diamond discs are made with our proprietary bond formulation. Manufactured for the lapidary industry, Crystallmet™ discs will provide an excellent finish, long life and an aggressive cutting action. They are ideal for those who want high volume production and long life from their discs. A 1/2" arbor hole is standard (specify other).

Mesh	Application	6 x 3/16 x 1/2	8 x 3/16 x 1/2
120	Roughing	C5303230	C5303330
350	Smoothing	C5303250	C5303350
600	Smoothing	C5303260	C5303360
1200	Sanding or Pre-polish for some stones	C5303270	C5303370

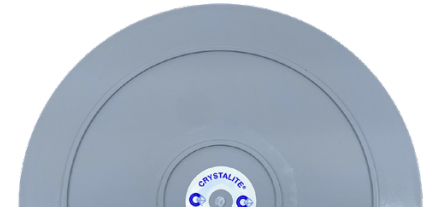


CRYSTMET™

SINTERED METAL BOND WHEELS

These sintered metal bond wheels are made with our proprietary bond formulation. Manufactured for the lapidary industry, Crystallmet™ wheels will provide an excellent finish, long life and an aggressive cutting action. They are ideal for those who want high volume production and long life from their wheels.

Mesh	Application	8 x 1 x 1 1/8 depth
60	Very Coarse	C5328610
120	Rough	C5328630
180	Preform	C5328640
325	Honing	C5328650
600	Sanding	C5328660
1200	Pre-Polish	C5328670



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



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

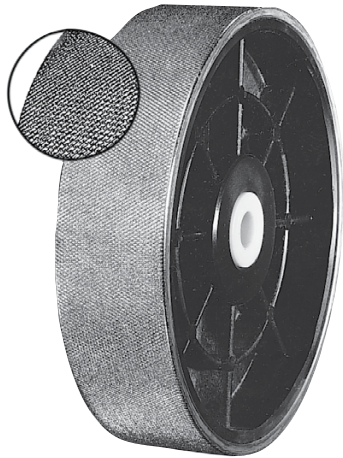
Note: Use the entire face of the wheel to avoid grooving. If slow cutting occurs, dress the face of the wheel with our dressing stick to restore the cutting action. Use with Crystalcut™ rust inhibitor. Additional mesh sizes and wheel dimensions are available.



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

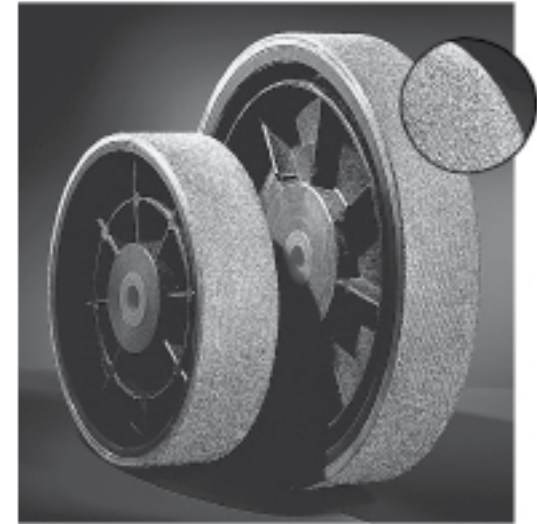
Mesh	4" x 1-1/2"	6" x 1"	6" x 1-1/2"	8" x 1-1/2"
60	C5321290	C5322010	C5323210	
80	C5322030	C5323230		
100	C5320150	C5321310	C5322050	C5323250
180	C5321330	C5322070	C5323270	
220	C5320170	C5321350	C5322090	C5323290
360	C5320190	C5321370	C5322110	C5323310
600	C5320210	C5321390	C5322130	C5323330
1200	C5320230			



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



TURBINE WHEEL®

This diamond wheel has a unique, sawtoothed 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.

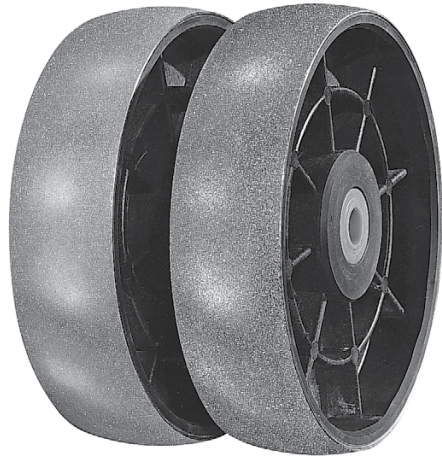
Mesh	6" x 1-1/2"	8" x 1-1/2"
40	C5325950	C5326950
100	C5326010	C5327010
180	C5326030	C5327030
260	C5326050	C5327050

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



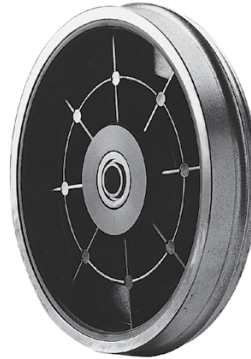
SPHERICAL MIRACLE™

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

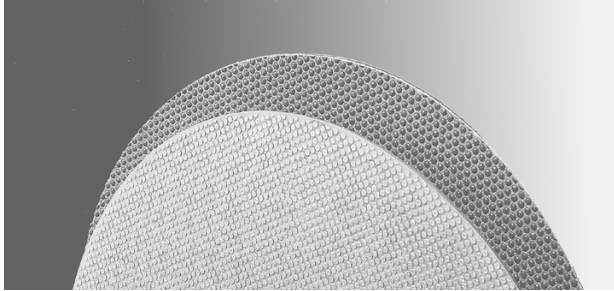
This precision surfaced universal lap is ideal for charging with diamond compound and Crystalube™ lubricant or with water and conventional abrasives such as cerium and tin oxide. Its light weight will replace heavy metal laps and lucite. This lap will polish facets extremely flat. A 1/2" arbor hole is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



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

SHARPENING CRYSTALMET™ METAL BOND WHEELS

For 360 grit wheels (and coarser)

1. Run the wheel at 300-2000 rpm, using a substantial water flow.
2. Using heavy pressure, run the end of a coarse Crystalite® dressing stick across the wheel.
3. Grind away about 1 cubic inch of the stick. Lean in on the edges and corners of the stick.
4. Flush away all the dislodged grit. Coarse silicon carbide wheel remnants may be used in place of the dressing stick.

For 600-1500 grit wheels

1. Run the wheel at 300-2000 rpm, using a substantial water flow.
2. Use a fine Crystalite® dressing stick.
3. With moderate pressure, lean into the wheel with the corners and edges of the dressing stick. Run it across the metal bond wheel several times, concentrating on the dull areas.
4. When the stick begins to grind away freely, the wheel has been sharpened.
5. Flush away all the dislodged grit.

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.

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.

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.

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.

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.



GENESIS STARLAP™

The affordable large diameter diamond lap

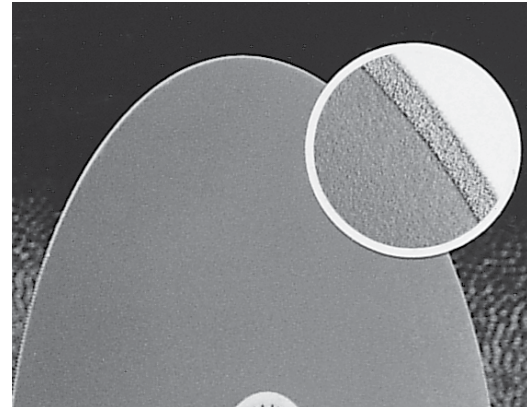
- Cost effective on large platen machines
- Controlled diamond placement
- Exceptionally fast grind rates
- Excellent chip clearance
- Discs supplied with magnetic backing
- Custom sizes & backings available

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.

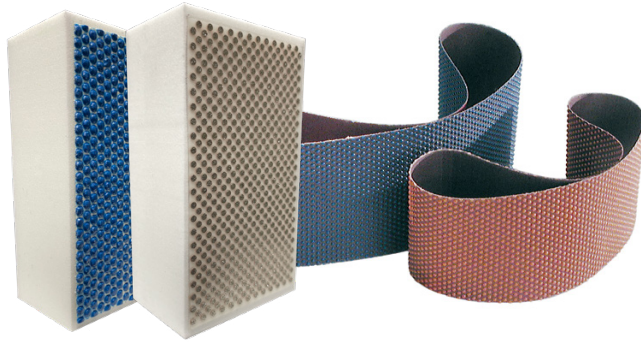
Diameter	Rim	Center Hole	
		1/2"	5/8"
4"	.025	C5555030	C5555040
6"	.025	C5555110	C5555120
6"	.033	C5555130	C5555140
8"	.025	C5555150	C5555160
8"	.035	C5555170	C5555180
10"	.042	C5555190	C5555200



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 & HANDPADS

PLATED GRINDING

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

RESIN POLISHING

- Use wet
- Excellent polishing results
- Polyester backing
- Wear resistant joint
- Polish a variety of shapes
- Handpads 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

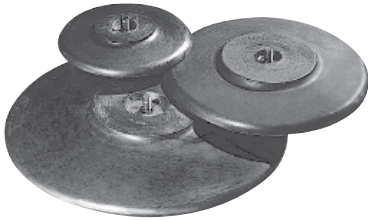
Diamond Mesh	70	120	220	400	600
Diamond BELTS (to be used with expanding drums)					
6 x 1-1/2 (18-15/16 x 1-1/2)	C5403010	C5403030	C5403050	C5403070	C5403090
6 x 2-1/2 (18-15/16 x 2-1/2)	C5403110	C5403130	C5403150	C5403170	C5403190
8 x 3 (25-7/32 x 3)	C5403310	C5403330	C5403350	C5403370	C5403390
Diamond HANDPADS					
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
Diamond BELTS (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
Diamond HANDPADS					
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.
DIAMOND PLATED SANDING SYSTEM			
70	C5314010	C5314110	C5314210
120	C5314030	C5314130	C5314230
220	C5314050	C5314150	C5314250
400	C5314070	C5314170	C5314270
600	C5314090	C5314190	C5314290
DIAMOND RESIN POLISHING SYSTEM			
600	C5314430	C5314510	C5314590
800	C5314450	C5314530	C5314610
1800	C5314470	C5314550	C5314630
3500	C5314490	C5314570	C5314650
MINI CRYSTALPAD™ PRE-POLISH PADS (12/PKG.)			
	C5201910	C5201930	C5201950
MINI CRYSTALPAD™ FINAL POLISH PADS (12/PKG.)			
	C5201610	C5201630	C5201650
MINI POLYPAD™ PADS (12/PKG.)			
	C5201710	C5201730	C5201750
MINI FLEXODISC™ DISCS (1/8" SHANK MANDREL)			
	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



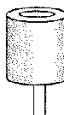



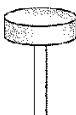
Stock No.
C5202010

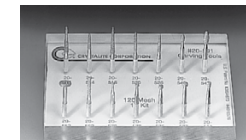
MINI TURBINE WHEEL®

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

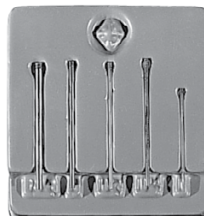
These 80 mesh brazed diamond core drills will provide faster cutting with longer life. Diamonds have been bonded with the P.B.S.® process. (See on pg. 14). Metric sizes also available.

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.

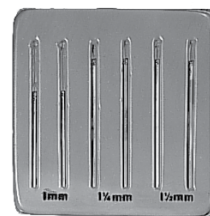
MM	Pkg. of 6	Pkg. of 25	Pkg. of 100
.75	C5210510	C5220510	C5250510
1.00	C5210530	C5220530	C5250530
1.25	C5210550	C5220550	C5250550
1.50	C5210570	C5220570	C5250570
2.00	C5210590	C5220590	C5250590
2.50	C5210610	C5220610	C5250610



Standard Drill Kit
Contains **one** each:

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

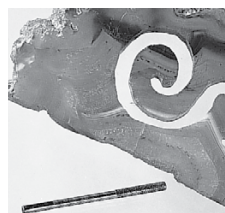
Stock No.
C5210700



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

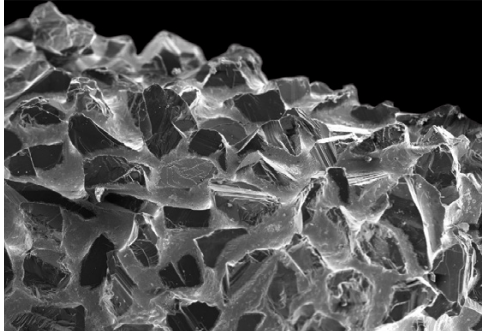


Helpful Hints

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.



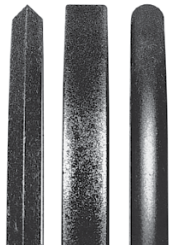
DIAMOND POINT™ THE CARVER'S ADVANTAGE



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.

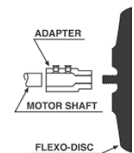
1/8" Shank

Style/ Shape	Max Tip Dia. (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

GET YOUR CRYSTALITE® LAPING AND POLISHING PRODUCTS TODAY!

Call: 1.740.548.4100

Contact: CSR@abrasive-tech.com

AT is not liable under any circumstances for any direct, indirect, special, consequential, or incidental damages (including lost profits) in any way relating to the merchandise or to this agreement.



Crystalite

AN  BRAND
abrasive
technology



North American Headquarters

8400 Green Meadows Dr. N.
Lewis Center, OH 43035 USA

USA: 1.740.548.4100



European Headquarters

Mochdre, Colwyn Bay LL28 5HA,
United Kingdom

UK: +44.1492.540444



www.abrasive-tech.com