

Company Profile

Diamond Productions, established in 1954, specializes in the design and manufacturing of high quality, close tolerance diamond tools. Our tools are used in a broad cross-section of industries including natural stone, concrete, composites, aerospace and automotive, among many others. Our precision products are used in cutting, grinding, shaping, polishing and machining of hard and composite materials.

Throughout our history, Diamond Productions has been at the forefront of the innovation, invention and design of diamond tools. Our decades of industry experience coupled with our ongoing research and development program has allowed us to provide our customers with the most technologically advanced solutions for all their standard and custom tooling needs.

All of our tools are made with the finest natural and synthetic diamonds and superabrasives, using only raw materials of the highest standard and quality. Our processes enable a high concentration of diamond and superabrasive crystals to ensure a long-lasting and superior quality diamond tool. Diamond Productions' tools are produced and inspected under the most stringent controls to ensure the highest quality products for superior performance on the toughest applications.

Our highly specialized and technically capable staff is the foundation of our company. We are extremely proud to provide our customers with in-house engineering solutions, custom tooling capabilities and advanced research and development to meet their exact needs. Our design team welcomes the opportunity of a challenge and we stand by our guarantee to provide our customers with the best customer and engineering services in the industry.

Local Manufacturing

We are extremely proud to be one of the few North American diamond tool manufacturers. Our full capacity machine shop, natural diamond, vacuum brazing and electroplating departments manufacture high-precision, custom tooling to a wide variety of industries.

With such capabilities, our local manufacturing facility also performs advanced research and development keeping Diamond Productions on the cutting edge of the diamond tool industry.

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01

Concrete & Construction

Diamond Productions is an industry leader in manufacturing unique diamond tooling systems for concrete floor preparation, floor restoration and concrete polishing. We engineer and build trend-setting tools and mounting systems for various machines and applications.

SWITCH™

DIAMOND TOOLING SYSTEM

One System. Three Machine Brands.

Designed to work on
Prep/Master®, Husqvarna®
and Terrco® concrete floor
machines.

Ideal Program for Distributors

One tooling program for three machines will dramatically reduce the need to carry a large tooling inventory. Maximize your sales with fewer SKUs. Great for online shops and e-commerce.

The Switch System looks great on display with clean packaging and colored labels.



Switch Tooling for Terrco®

Easily adapt the Switch System for Terrco machines with a simple Patent Pending Conversion Clip. The Switch Clip slides on the back of all Switch tools.

Code	Description
CNCLIP	Terrco machine adapter

A Comprehensive Package

The Switch System is a comprehensive tooling package curated to tackle nearly any concrete floor. The system includes tools for coating removal, preparation, grinding, polishing and finishing.



01
Preparation
Plates

02
Grinding
Plates & Discs

03
Hybrid &
Resin Pads

04
Maintenance
& Chemicals

05
Accessories &
Backplates

Switch Floor Preparation Plates

Serious About Coating Removal

Coating removal for concrete floors can be difficult, time consuming and costly. We offer four aggressive floor preparation segmented plates to take on any flooring challenge.

Field-Tested and Approved

We've adapted our proven metal bonded segments to our new Switch System. All Switch segments and resins have been field-tested and client approved.



Back view

NEW **DRY | WET | C**



PCD 1 Segment

- The Switch PCD and Segment combination floor plate is designed to aggressively remove coatings, glues and mastics on concrete floors.
- The single diamond segment prevents damage to the floor by controlling the depth of the cuts from the PCDs.

Codes	Direction
EGPCD22501L	Left
EGPCD22501R	Right

DRY | WET | C



Bear Claw

- Epoxy and coatings are no match for the Switch System Bear Claw.
- The diamond segments prevents damage to the floor by controlling the depth of the cuts from the PCDs.

Codes	Direction
EGPCD303L	Left
EGPCD303R	Right

DRY | WET | C



Train Segment

- This unique segment is designed to efficiently remove epoxy coatings.
- Often a tough task, the Switch System Train Segment handles this preparation step with ease.

Soft Bond	Grit
EGGP1T016	16

DRY | WET | C



Super Segment

- Attack difficult concrete floors with the Switch System Super Segment.
- Designed as a preparation tool, the Super Segment can efficiently cut through tough coatings and hard to open surfaces.

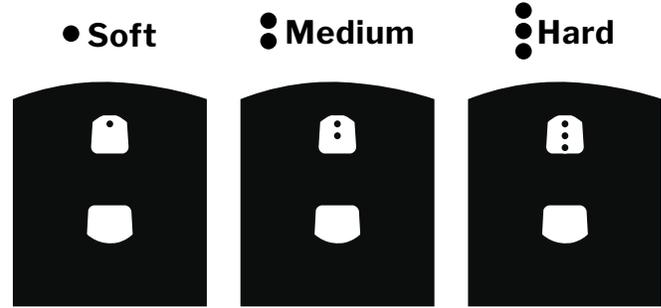
Soft Bond	Grit
EGGP2SSP025	25

Switch Floor Grinding Plates

Concrete & Construction

Three Segment Bond Options

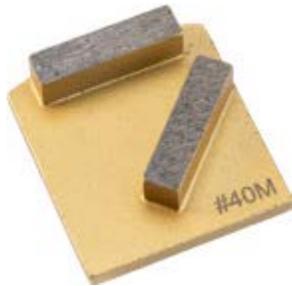
Various bonds are offered on certain floor preparation and grinding plates. A simple marking on the back of the tool or on the side of the floor grinding discs makes it easy to identify the bond once the tool has been used.



1 Segment

- Remove concrete floor coatings easily with the aggressive Single Segment Switch Floor Plate.
- This metal bond floor grinding plate removes stock quickly.
- Reduce labor costs while yielding a superior concrete floor surface.

DRY WET C	
Medium Bond	Grit
EGGP1SM016	16
EGGP1SM025	25



2 Segments

- Our best-selling floor grinding plate now available in the Switch System.
- Our Double Segment Plate yields a superior floor surface that is ready for polishing.
- The soft, medium and hard bonds can tackle just about every concrete floor.

DRY WET C			
Soft Bond	Medium Bond	Hard Bond	Grit
EGGP2SS025	EGGP2SM025	EGGP2SH025	25
EGGP2SS040	EGGP2SM040	EGGP2SH040	40



Round 1 Segment

- Transition to resins easily with Switch Round Segment Plate.
- This tool cuts well while leaving a more subtle scratch pattern due to the round segment design.

DRY WET C		
Soft Bond	Medium Bond	Grit
EGGP1RSS025	EGGP1RSM025	25

NEW



Oval Segments

- This tried and true tool is used to do floor preparation in advance of polishing.
- It is efficient and effective but a little less aggressive than our 2-seg tool but with a more refined scratch pattern and longer life.

DRY WET C	
Medium Bond	Grit
EGGP3OSM016	16
EGGP3OSM025	25
EGGP3OSM040	40

Switch Floor Grinding Discs

Same High-Performance Tool

Our ever popular Ten S series floor grinding plates are also available in the Switch System configuration. See the new and improved bond markings on the side of the tool. Even after tool wear, the markings are visible.



DRY | WET | C | Z



Switch Ten S

- The Switch Ten S leaves a subtle scratch pattern while effortlessly preparing the concrete floor for polishing steps.
- Ten metal bond, radial edged segments easily ride over inconsistencies in the floor.
- The thick segments make this product even more popular for its longevity.

Soft Bond	Medium Bond	Hard Bond
EGTS10S016	EGTS10M016	EGTS10H016
EGTS10S030	EGTS10M030	EGTS10H030
EGTS10S070	EGTS10M070	EGTS10H070
EGTS10S120	EGTS10M120	EGTS10H120

NEW

DRY | WET | C



Super Segment

- Attack difficult concrete floors with the Switch System Super Segment.
- Designed as a preparation tool, the Super Segment can efficiently cut through tough coatings and hard to open surfaces.
- Hook & loop backed quick load and release.

3" (75mm)	Grit
GDF8532040	40

Hybrid & Resins Pads

A selection of resin polishing pads specifically designed to optimize the Switch System. Seamlessly switch from metals to a variety of resin options.

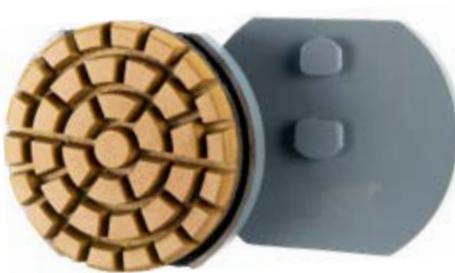
The Switch Resin Backplate uses industrial strength hook & loop to ensure proper adhesion while the rim guarantees that the resin stays in place.

Flare Page 27

Power Wet Page 27

Wizard Page 24

Hurricane Page 27



Switch Backplate

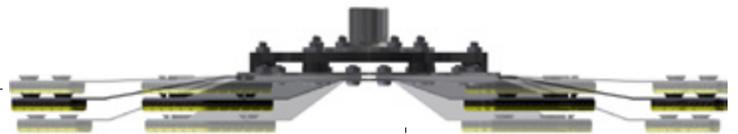
- The Switch System makes transitioning to resins effortless with the Switch Resin Backplate.
- Industrial strength hook & loop ensures proper adhesion while the rim or lip guarantees that the resin pad stays in place.

Code	Ø
EGCH03	3" (80mm)



Ultimate Flexibility

The key to the DuraShine System is the patent pending DuraShine Flex Plate. Even with a variance of 3/4" (high or low) on a floor, all the DuraPads remain flat maximizing efficiency of the DuraShine System.



QuickClick System

The patent pending QuickClick System securely affixes tools to the DuraShine Flex Plates. To remove the tools, lightly tap the outer edge with a rubber mallet.



NEW

DRY | WET | C



DuraShine Pyramid

- Fastest and most effective tool for mastic removal.
- Made for the high speed DuraShine System.
- Time and cost saving tool.
- Patent Pending.

Code	Description
DRSMMRT02	2 Segments

DRY | WET | C



DuraMetal

- The DuraMetal has round radial segments that although aggressive, provide a better floor profile than most other styles of segments.
- DuraMetals expands the DuraShine System by being highly productive and effective at removing epoxy and other thin mil coatings, mastics, glues, etc.
- They are best run wet.

Codes	Grit
DRSM5M016	16
DRSM5M030	30
DRSM5M070	70

DRY | WET | C | Z



DuraPad Hybrid

- DuraPad Hybrids are formulated to take out the scratches from the DuraMetal and set the floor for polishing.
- In some cases it may be possible to bypass using DuraMetal and to use the DuraPad Hybrids for the initial steps.

Codes	Grit
DRSC0030	30
DRSC0050	50
DRSC0100	100
DRSC0200	200
DRSC0400	400
DRSC0800	800

DRY | WET | C | Z



DuraPad GloPro

- The DuraPad GloPro resins will polish the floor to a spectacular shine and can run wet or dry.
- They give a superior finish in record time, saving labor and money with no sacrifice of quality.

Codes	Grit
DRSG0030	30
DRSG0050	50
DRSG0100	100
DRSG0200	200
DRSG0400	400
DRSG0800	800
DRSG1500	1500
DRSG3000	3000

WET | M | Z



DuraSnow

- The DuraSnow resins are formulated specifically for epoxy terrazzo.
- They are fast and effective.
- Run them wet only and produce a beautifully finished epoxy terrazzo floor.
- They polish marble exceptionally well.

Codes	Grit
DRSS0050	50
DRSS0120	120
DRSS0220	220
DRSS0400	400
DRSS0800	800
DRSS1800	1800
DRSS3500	3500

DRY | WET | C | Z



DuraLok

- Convert the DuraShine Flex Plates into maintenance mode.
- The industrial strength hook & loop holds the PolyPad Plus and DuraShine Heat Pad in place.

Codes	Description
DRLOK1	For the 27" DuraShine Flex
DRLOK2	For the 20"-21" DuraShine Flex
DRLOK3	For the 16"-17" DuraShine Flex



PolyPad Plus

- The PolyPad Plus removes scratches and helps to bring back the original gloss and luster keeping the floors looking new.
- They can also be used as a final polishing step to make the shine really pop.

POLAR MAGNETIC SYSTEM™

Make Your Existing Floor System Better

Less Time, More Profit.
Period.



High Performance System

Our high-performance tools easily snap on in exactly the right place and remain securely in place with the assistance of guide pins. The earth magnet guarantees polarity. We use only the strongest and most reliable earth magnets for the Polar Magnetic System. Tool removal is a breeze with a twist of a screw driver.

Replace an entire set
of tools in seconds!

High Performance Tooling

The Polar Magnetic System offers some of the most popular tools on the market. Choose from the popular Five and Ten S Discs, our renowned floor plates and a wide variety of hybrids and resins that can tackle nearly any floor.



Polar Floor Preparation Plates

Rough or Damaged Floors

Preparing newly troweled concrete floors or repairing heavily damaged floors can be challenging. The Floor Preparation plates are designed to remove a lot of stock quickly laying the proper foundation for subsequent steps.

Efficient Paint Removal

Paint can be difficult to remove off of concrete. The liquid paint seeps into every crevice requiring preparation plates to properly remove all traces of the coating.

Coating & Epoxy Removal

Conversely to a thin paint layer, coatings and epoxies can be very thick. These coatings are either very gummy or very hard. Both types of heavy coatings are difficult for most tools to remove. Only a heavy-duty Floor Preparation Plate can remove this type of surface treatment.



DRY | WET | C



Polar Train Segment

- Excellent thin or thick epoxy removal.
- Fast, efficient production rate.
- Preps surface while removing epoxy.

Code	Description
GPMT1016	1 Segment

DRY | WET | C



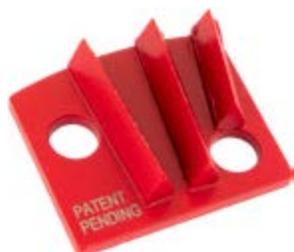
Polar Bear Claw

- An unparalleled tool for epoxy and coating removal.
- Featuring 3-PCD segments that effectively and efficiently removes coatings.
- It also has 3-16 grit segments to grind away gauge marks.
- This innovation saves time and money over traditional PCD tools.

Code	PCD	Grit
CRT3000	3	16

NEW

DRY | WET | C



Polar Pyramid

- Fastest and most effective tool for mastic removal.
- Time and cost saving tool.
- Patent Pending.

Code	Description
GPMMRT	3 Segments

Polar Premium Floor Plates

Superior Segment for Longevity

This metal-bonded tool has exceptional grinding power that removes stock quickly while leaving a relatively subtle scratch pattern. From first-step concrete grinding and leveling to heavy coating or adhesive removal, the premium grinding plates are heavy-weight performers.

Performance Tool

The premium grinding plates will last much longer than competitive products and due to their high heat resistance, will not glaze over. These plates work faster and harder to greatly reduce your product and labor cost.

In addition, they yield a superior concrete floor surface that is ready for polishing or coating. They perform extremely well on most types of concrete floors, from soft to very hard.

Powerful Grinding Power

This metal-bonded tool has exceptional grinding power that removes stock quickly while leaving a relatively subtle scratch pattern. From first-step concrete grinding and leveling to heavy coating or adhesive removal, the premium grinding plates are heavy-weight performers.



DRY | WET | C



Polar Premium - 1 Segment

- The single rectangular segment is ideal for removing coatings.
- This single segment is extremely aggressive.

Soft Bond	Medium Bond	Grit
GPM1XS016	GPM1016	16
GPM1XS025	GPM1025	25



Polar Premium - 2 Segments

- The double rectangular segments remove adhesives and coatings.
- Takes the floor from coarsely structured surface to pre-polishing.

Soft Bond	Medium Bond	Grit
GPM2XS016	GPM2016	16
GPM2XS025	GPM2025	25
GPM2XS040	GPM2040	40
GPM2XS080	GPM2080	80
GPM2XS150	GPM2150	150

DRY | WET | C



Polar Premium - 2 Round

- Round segments are less aggressive and leave a more subtle scratch pattern.
- Best for concrete and terrazzo applications.
- Using round segments often makes for an easier transition into resin polishing pads.

Soft Bond	Medium Bond	Grit
GPM2RXS016	GPM2R016	16
GPM2RXS025	GPM2R025	25
GPM2RXS040	GPM2R040	40
GPM2RXS080	GPM2R080	80
GPM2RXS150	GPM2R150	150

DRY | WET | C

Polar Standard Floor Plates

Soft Bond For Hard Concrete

The metallic powder in the sintered segment wears away quickly releasing dull diamond crystals exposing new abrasive crystals to cut efficiently.

Medium Bond For Medium Concrete

A metal bond strength right between that of soft and hard bonds. It is by far the most commonly used bond.

Hard Bond For Soft Concrete

The bond of the metallic powder in the segment wears away slowly and prevents premature wear against soft, abrasive surfaces.

Best Standard Segment on the Market

The standard quality segment is a great balance between cost and performance. These segmented grinding plates achieve maximum square footage at a minimum cost.



DRY | WET | C



Polar Standard - 1 Segment

- Great balance between cost and performance.
- Achieve maximum square footage at a minimum cost.
- This single segment is extremely aggressive.

Soft Bond	Medium Bond	Hard Bond	Grit
GPM1S016	GPM1M016	GPM1H016	16
GPM1S025	GPM1M025	GPM1H025	25



Polar Standard - 2 Segments

- One of our top selling floor grinding plates.
- This grinding plate is effective, efficient and the product of choice.

Soft Bond	Medium Bond	Hard Bond	Grit
GPM2S016	GPM2M016	GPM2H016	16
GPM2S025	GPM2M025	GPM2H025	25
GPM2S040	GPM2M040	GPM2H040	40
GPM2S080	GPM2M080	GPM2H080	80
GPM2S150	GPM2M150	GPM2H150	150

DRY | WET | C



Polar Standard - 2 Round

- Great balance between cost and performance.
- Round segments are less aggressive and leave a more subtle scratch pattern.
- Best for terrazzo applications.

Soft Bond	Medium Bond	Hard Bond	Grit
GPM2RS016	GPM2RM016	GPM2RH016	16
GPM2RS025	GPM2RM025	GPM2RH025	25
GPM2RS040	GPM2RM040	GPM2RH040	40
GPM2RS080	GPM2RM080	GPM2RH080	80
GPM2RS150	GPM2RM150	GPM2RH150	150

DRY | WET | C

Polar Floor Discs

Adapts to Multiple Systems

Our very popular Polar Magnetic Floor Discs easy adapts to the most popular systems.

Polar Magnetic Hole

The Polar Magnetic guide holes keep the tool securely in place on the Polar Magnetic backplate.



Standard 3 Hole System

Three Threaded holes are designed to fit any standard 3-hole system.

Center Plug Hole

A 1/2-20 threaded center hole accommodates the large center bolt for most plug systems.

DRY | WET | C | Z



Ten S Platinum

- Higher concentration of diamond compared to the standard Ten S.
- Cuts the floor faster.
- The Platinum Series gives a higher degree of refinement to the floor because of the very consistent scratch pattern.

Platinum	Grit
TSTP1030016	16
TSTP1030030	30
TSTP1030070	70
TSTP1030120	120

DRY | WET | C | Z



Five S Platinum

- Higher concentration of diamond compared to the standard Five S.
- Cuts the floor faster.
- The Platinum Series gives a higher degree of refinement to the floor because of the very consistent scratch pattern.

Platinum	Grit
TSTP0530016	16
TSTP0530030	30
TSTP0530070	70
TSTP0530120	120

DRY | WET | C | Z



Ten S

- Substantially long life product.
- Subtle scratch pattern.
- Radial edge rides smoothly over uneven floors and greatly reduces scratches on the floor.
- For terrazzo and concrete applications.

Soft Bond	Medium Bond	Hard Bond	Grit
TST1030S016	TST1030016	TST1030H016	16
TST1030S030	TST1030030	TST1030H030	30
TST1030S070	TST1030070	TST1030H070	70
TST1030S120	TST1030120	TST1030H120	120

DRY | WET | C | Z



Five S

- 5 segments for more aggressive grinding.
- Long life segment.
- Radial edge rides smoothly over uneven floors.

Soft Bond	Medium Bond	Hard Bond	Grit
TST0530S016	TST0530016	TST0530H016	16
TST0530S030	TST0530030	TST0530H030	30
TST0530S070	TST0530070	TST0530H070	70
TST0530S120	TST0530120	TST0530H120	120

Polar Adapters

Adapts to Nearly any Floor System

The biggest advantage to the Polar Magnetic System is its ability to make nearly any floor system better and more efficient. Choose from a variety of adaptable Polar Backplate and Polar Floor Plates and start taking advantage of the labor savings immediately.

Custom Conversions

Can't find the adapter for your system? No problem. We can adapt virtually any drive plate so that you can start taking advantage of the savings!

We have customized many floor plates to accommodate the Polar Magnetic System. Call our sales team today to discuss how we can make this system work for you.

01 3-Hole System

The Polar Magnetic Backplate easily converts a standard 3-hole system. Simply screw on the Polar Backplates to your existing 3-hole plates.



BPMMG Polar Magnetic Backplates

02 Plug System

The Polar Plug is a great option if you're running the plug system.



BPRMG Round Polar Magnetic Backplate

ADPO24 Polar Magnetic Plug

03 Lock System

The Polar Husky Plate has the Polar Magnetic System already built in. There's no need for any backplates, the tooling simply clips directly to the plate.



FLP10625 Polar Husky Plate

04 2-Pin System

The Polar 2-Pin Backplate converts a standard 2-pin system. Simply screw onto your floor plate.



BPPMM2P Polar 2-Pin Backplate

05 Swing Machine

Convert your swing machines to Polar Magnetic System to grind concrete.



FLPMM1706 17" with 6 Magnetic Backplates

06 Resin Adapter

Switch effortlessly into resins. Industrial strength hook & loop ensures proper adhesion while the rim or lip guarantees that the resin pad stays in place.



BPML03 3" (75mm)



3 Hole Floor Plates

Same Segment Configurations

We offer the same quality segment configurations for standard 3-hole systems as in our Polar Magnetic System and Switch System.

Consider optimizing your 3-hole system to a much more efficient Polar Magnetic program at very little cost.

Premium Versus Standard

The standard quality segment is a great balance between cost and performance. These segmented grinding plates achieve maximum square footage at a minimum cost.

Our premium grinding plates combine superior diamonds, an extremely durable, unique and versatile matrix to yield a high performance grinding product.



Bear Claw

- An unparalleled tool for epoxy and coating removal.
- Featuring 3-PCD segments that effectively and efficiently removes coatings.
- It also has 3-16 grit segments to grind away gauge marks.
- This innovation saves time and money over traditional PCD tools.

Code	Grit
CRT3001	16

DRY | WET | C



Super Segment

- The Super Segment is an ideal preparation tool.
- It is the tool of choice for difficult concrete.
- Its designed to prepare and cut through tough coatings and hard to open surfaces.
- The placement of the segments is designed for optimum cutting.

Code	Grit
GPS2025	25

DRY | WET | C



Train Segment

- Excellent thin or thick epoxy removal.
- Fast, efficient production rate.
- Preps surface while removing epoxy.
- Extra-long life.

Code	Grit
GPT1016	16

DRY | WET | C

NEW



Pyramid Plate

- Fast and effective tool for mastic removal.
- Time and cost saving tool.
- Patent Pending.

Code	Description
GPTMRT	3 Segments

DRY | WET | C

Premium Floor Plates

DRY | WET | C



Premium 1 Segment

- Amazing results on most types of concrete from soft to very hard.
- The single rectangular segment is ideal for removing heavy coatings.
- This single segment is extremely aggressive.

Medium Bond	Grit
GPP1016	16
GPP1025	25

DRY | WET | C



Premium 2 Segments

- High performance grinding product.
- Removes stock quickly and efficiently to greatly reduce your product and labor cost.
- Engineered to be heat resistant.
- Last much longer than competitive products and will not glaze.

Soft Bond	Medium Bond	Grit
GPPX2016	GPP2016	16
GPPX2025	GPP2025	25
GPPX2040	GPP2040	40
GPPX2080	GPP2080	80
GPPX2150	GPP2150	150

DRY | WET | C



Premium 2 Round

- Combination of superior diamonds and an extremely durable and unique matrix.
- Round segments are less aggressive and leave a more subtle scratch pattern.
- Using round segments often makes for an easier transition into resin polishing pads.

Medium Bond	Grit
GPP2R016	16
GPP2R025	25
GPP2R040	40
GPP2R080	80
GPP2R150	150

Standard Floor Plates

DRY | WET | C



Standard 1 Segment

- This grinding plate is effective, efficient and the product of choice.
- The single rectangular segment is ideal for removing heavy coatings.
- This single segment is extremely aggressive.

Soft Bond	Medium Bond	Hard Bond	Grit
GP1S016	GP1M016	GP1H016	16
GP1S025	GP1M025	GP1H025	25

DRY | WET | C



Standard 2 Segments

- The double rectangular segments remove adhesives and coatings.
- Takes the floor from coarsely structured surface to pre-polish.

Soft Bond	Medium Bond	Hard Bond	Grit
GP2S016	GP2M016	GP2H016	16
GP2S025	GP2M025	GP2H025	25
GP2S040	GP2M040	GP2H040	40
GP2S080	GP2M080	GP2H080	80
GP2S150	GP2M150	GP2H150	150

DRY | WET | C



Standard 2 Round

- Round segments are less aggressive and leave a more subtle scratch pattern.
- Best for natural stone and terrazzo applications.
- Using round segments often makes for an easier transition into resin polishing pads.

Medium Bond	Grit
GP2RM025	25
GP2RM040	40
GP2RM080	80
GP2RM150	150

Hook & Loop Floor Discs

Sintered & Vacuum Brazed Discs

The hook & loop floor discs are available for machines that only take the hook & loop attachment.

Choosing The Right Tool

Sintered tools have a longer life and higher segments, while the vacuum brazed tools are direct and very aggressive with less product life. Choosing the right product depends on the condition of the floor or the extent of the damages needed to be repaired.

DRY | WET | C | Z


Ten S

- Substantially long life product.
- Subtle scratch pattern.
- Radial edge rides smoothly over imperfections and greatly reduces scratches on the floor.
- Hook & loop backed quick load and release.

3" (75mm)	Grit
TSV03100016	16
TSV03100030	30
TSV03100050	50
TSV03100070	70
TSV03100100	100
TSV03100200	200

NEW


Daisy

- Sintered molded design.
- Leaves a subtle scratch pattern.
- Hook & loop backed quick load and release.

3" (75mm)	Grit
DGD3TM016	16
DGD3TM030	30
DGD3TM070	70
DGD3TM120	120

DRY | WET | C | Z


Toolip

- Beveled edge rides easily over imperfections.
- Leaves a smooth scratch pattern.
- Hook & loop backed quick load and release.

3" (75mm)	Grit
TL30030	30
TL30050	50
TL30070	70
TL30100	100
TL30200	200

DRY | WET | C | Z | M | G


Turbo Cat

- Best used on lighter machines and smaller jobs.
- The fully exposed diamond makes this a fast working, aggressive tool.
- Hook & loop backed quick load and release.

3" (75mm)	4" (100mm)	Grit
TC3030	TC4030	30
TC3050	TC4050	50
TC3100	TC4100	100

DRY | WET | M | C | Z

DRY | WET | M | C | Z



Bull Cat

- Best used on lighter machines and smaller jobs.
- Continuous diamond pattern ensures smoother grinding.

5" (125mm)	Grit
BC5030	30
BC5050	50
BC5100	100

DRY | WET | M | Z | F | E | C | P | GL



Excalibur

- Very popular flexible product for edge work.
- Pair with a foam backplate for added flexibility.
- Available with or without a 5/8" center hole.
- Available in custom diameters and shapes.

4" (100mm)	5" (125mm)	7" (180mm)
EXF040040	EXF050040	EXF070040
EXF040060	EXF050060	EXF070060
EXF040120	EXF050120	EXF070120
EXF040220	EXF050220	EXF070220
EXF040400	EXF050400	EXF070400
EXF040600	EXF050600	EXF070600

DRY | WET | M | Z | F | E | C | P | GL



Excalibur Rigid

- Very popular product for edge work.
- Available with or without a 5/8" center hole.
- Available in custom diameters and shapes.

4" (100mm)	5" (125mm)	7" (180mm)
EXR040040	EXR050040	EXR070040
EXR040060	EXR050060	EXR070060
EXR040120	EXR050120	EXR070120
EXR040220	EXR050220	EXR070220
EXR040400	EXR050400	EXR070400
EXR040600	EXR050600	EXR070600

NEW

DRY | WET | M | Z | F | E | C | P | GL



Excalibur Fein

- Ideal product for corners and tight spaces.
- Indispensable tool to always have on every job.
- This shape is available in resin on page 28.

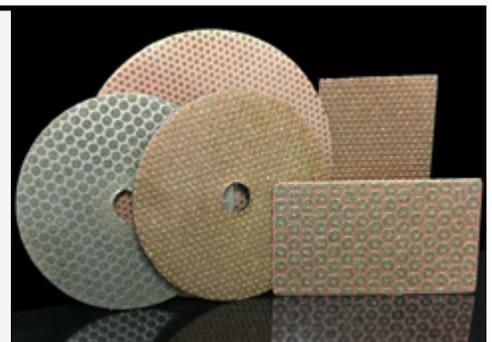
Codes	Grit
EXFF0040	40
EXFF0060	60
EXFF0120	120
EXFF0220	220
EXFF0400	400
EXFF0600	600

A Legacy Product

Locally Manufactured Since 1995

We take great pride in the fact that we've been manufacturing the Excalibur flexible and rigid series for over 20 years. Over the two decades of manufacturing, we have perfected one of the most diversely used tools that we sell here at Diamond Productions.

Learn more on page 65



Cupwheels

Concrete Floor Preparation

The **Arrow** and **PCD** cupwheels are specifically designed for concrete floor preparation. These cupwheels remove thin mil coatings, thicker epoxies and paints from the floor.

Edging

Many floor machines can't get right up to the wall and leave up to a 4" perimeter unpolished band. We offer

5" and 7" cupwheels for either edging machines or to fit on hand held grinders to tackle the perimeter.

Concrete Countertops

Cupwheels are used on concrete countertops to expose the aggregates and smooth the top surface. Skilled professionals also use the **Aluminum** or **Spiral** cupwheels to break the edges.

NEW

DRY | WET | C



Mini Arrow

- One of the most aggressive cupwheel that we offer.
- Unique angular segment design ideal for removing thicker coatings such as epoxies.

7" (180mm)	Arbor
ARRM0712A	5/8-11 Thread
ARRM0712K	5/8"-7/8"

DRY | WET | C



Arrow

- Unique angular segment design ideal for removing thicker coatings such as epoxies.
- Ten high sintered segments for a longer lasting tool.

7" (180mm)	Arbor
ARR0710A	5/8-11 Thread
ARR0710K	5/8"-7/8"

DRY | WET | C



PCD Cupwheel

- Polycrystalline Diamonds provide the solution for hard to remove surfaces.
- Aggressive removal thicker coatings.
- Effective for removing glues, light epoxies and paint.

5" (125mm)	7" (180mm)	Arbor
CW05PCD	CW07PCD	5/8-11 Thread
CW05PCDK	CW07PCDK	5/8"-7/8"

DRY | WET | C



PCD Gold Cupwheel

- 24 PCD segments evenly remove thin coatings.
- Less directly aggressive with the smaller PCD segments compared to the standard PCD cupwheel.

7" (180mm)	Arbor
CW0724PCDK	5/8"-7/8"

DRY | WET | C



Grizzly Cupwheel

- The Grizzly is made using an advanced proprietary formula.
- Extremely efficient in removing industrial-grade paint and thin-mil coatings from concrete floors.
- Fast, aggressive grinding makes this a time saver.

4" (100mm)	7" (180mm)	Grit	Arbor
CWM04035A	CWM07035A	25	5/8-11 Thread

DRY | WET | C | M | G



Spiral Cupwheel

- One of our best selling cupwheels.
- Used for grinding and chamfering concrete countertops.
- Available in multiple grits.

4" (100mm)	5" (125mm)	Grit
SP04CA	SP05CA	Coarse (30)
SP04MA	SP05MA	Medium (60)

DRY | WET | C | M | G



Aluminum Turbo

- The aluminum body makes this cupwheel light and easy to handle.
- High segment design.

4" (100mm)	Grit
AL04CA	Coarse
AL04MA	Medium
AL04FA	Fine

Locally Manufactured Since 2003

Vacuum Brazing Services

Braze new cores or refurbish used wheels

We vacuum braze a wide variety of complex wheels and steel forms for a vast array of industries and applications. Reduce costs by refurbishing used tools.

Learn more on page 58



Save up to
25%
refurbishing
used wheels

DRY | WET | C | M | G



Aluminum Turbo - Resin Filled

- The added resin helps dampen vibrations when chamfering edges.
- High segment design.

4" (100mm)	Grit
ALR04CA	Coarse
ALR04MA	Medium
ALR04FA	Fine

DRY | WET | C



Ceramic Cupwheel

- High-speed cupwheel designed for edge work.
- The ceramic cupwheel will work very fast to polish edges.
- Available in 5 grits.
- 5/8-11 Thread.

5" (125mm)	7" (180mm)	Grit
CWC050030A	CWC070030A	30
CWC050050A	CWC070050A	50
CWC050100A	CWC070100A	100
CWC050200A	CWC070200A	200
CWC050400A	CWC070400A	400

DRY | WET | C | M | G | Z



Double Row

- Ideal for aggressive grinding and chamfering.
- Popular double row design.

4" (100mm)	5"(125mm)	7"(180mm)	Arbor
DR04A	DR05A	DR07A	5/8-11 Thread
DR04K	DR05K	DR07K	5/8"-7/8"

DRY | WET | C | Z



Hexagon

- High segments designed for long product life.
- Unique wide segment pattern is very aggressive.
- Ideal for leveling concrete floors.

5" (125mm)	Arbor
HEX0510A	5/8-11 Thread

DRY | WET | C | Z



Aggressor

- High segments designed for long product life.
- Unique segment pattern is very aggressive.
- Ideal for leveling concrete floors.
- Available in 12, 18 and 24 segment design.

4" (100mm)	#	7" (180mm)	#	Arbor
AGP0408A	8	AGP0712A	12	5/8-11 Thread
AGP0408K	8	AGP0712K	12	5/8"-7/8"
AGP0414A	14	AGP0718A	18	5/8-11 Thread
AGP0414K	14	AGP0718K	18	5/8"-7/8"
		AGP0724A	24	5/8-11 Thread
		AGP0724K	24	5/8"-7/8"

Tool Branding Services

Build a Brand that Gets you Noticed!

Stand out in your market with our Branding Services. We develop innovative solutions that give you that extra competitive edge.



Labels & Packaging



Promote your brand name with distinctive, custom-designed labels and packaging.



Stamped Resins



Stand out by stamping your brand name or logo on the hook & loop of our most popular resin pads.



Engraved Metals



Create a lasting impression in your market when we engrave your brand name into metal tooling.



Custom Grit Colors



Make your tooling instantly recognizable and your brand distinctive with custom grit colors on metal tools.

Proprietary Tooling Program

Elevate your Brand

Elevate your brand and enhance your reputation with custom, high-quality proprietary diamond tooling. We have designed and developed proprietary diamond tooling programs for Original Equipment Manufacturers (OEM's) and large distributors for over 50 years.



Custom Formulations

From unique materials and surfaces to machine weight and speed, we adapt our proven formulas to your market requirements. We adapt our tooling to meet your performance needs.



Unique Tooling Designs

Whether it is to optimize machine performance or simply to stand out, we can design and manufacture custom resin patterns and unique segment designs.



Customized Attachments

We can adapt tooling attachments to fit proprietary machine configurations. Our team of engineers specialize in designing and improving attaching systems and mechanisms to be secure and easy to use.

Trust & Confidence

Engineering & Design

Tested & Guaranteed

Hybrid Resins

Hybrids are resin pads that are mixed with metal powder and diamond grit. The mix is very uniform and results in a subtle and refined scratch pattern. These pads are also extremely tolerant to high heat and are ideal on heavier machines.

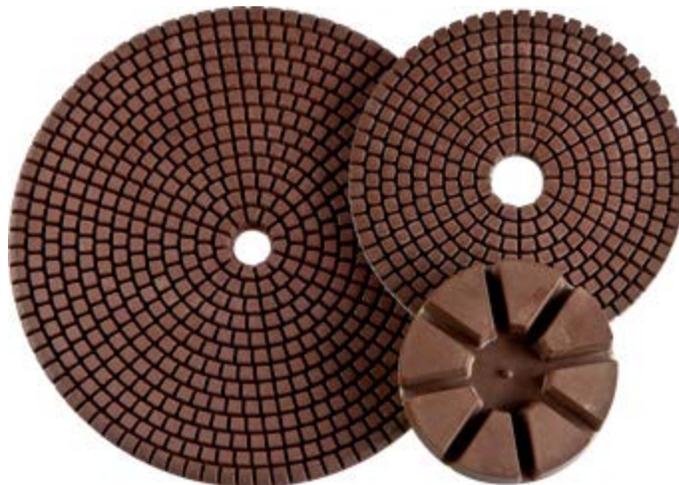
The Hybrid Advantage

Hybrid resin tools are specifically designed to help make a better transition from metal scratch patterns to resin polishing steps.

The Hybrid resins are tough enough to even out some of the most aggressive scratches left by metal tools essentially preparing the floor for polishing.

When to Start with Hybrids

In some cases, such as restoration work it is possible to start the work with a 50 grit hybrid instead of using a metal. These tools are robust enough to handle stains, anomalies and some calcification in the floor. If used in the right circumstance, these pads can drastically reduce the number of steps in the preparation and restoration processes.



DRY | WET | C | Z



Copper Hybrid

- Efficient removal of metal bond scratches.
- Consistent scratch pattern to set up resin polishing.
- The thick segment design works well on heavy and light machines.

3" (75mm)	Grit
FCPH30050	50
FCPH30100	100
FCPH30200	200

NEW

DRY | WET | C | Z

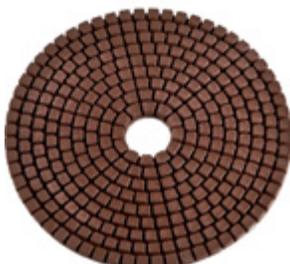


Wizard Copper Hybrid

- The Wizard Hybrid concrete polishing pad is an excellent transition from metal bonded tools to diamond resin tools.
- An Ideal tool to prepare concrete floors for a cream polish.

3" (76mm)	Grit
WCH30030	30
WCH30050	50
WCH30100	100
WCH30200	200
WCH30400	400

DRY | WET | C | Z



Flexible Copper Hybrid

- Efficient removal of metal bond scratches.
- Consistent scratch pattern to set up resin polishing.
- Perfect for edge work and stairs.
- Designed for edge grinders, light & medium floor machines.

3" (75mm)	5" (125mm)	7" (180mm)
FCP30030	FCP50030	FCP70030
FCP30050	FCP50050	FCP70050
FCP30100	FCP50100	FCP70100
FCP30200	FCP50200	FCP70200

WET | C | Z



Superior Hybrid

- 10mm height gives a long life pad.
- Used on heavy machines for aggressive stock removal.
- Use wet only!

3" (75mm)	Grit
SUPM30030	30
SUPM30050	50
SUPM30100	100
SUPM30200	200

WET | C | Z



Rosex Hybrid

- Seamless transition to resin polishing.
- Step saver.
- Aggressive stock removal with a smoother scratch pattern.
- Use wet only!

3" (75mm)	Grit
ROXM30030	30
ROXM30050	50
ROXM30100	100
ROXM30200	200

Ceramic Hybrid

The Ceramic Hybrid is a combination of ceramic powder and diamond grit. The ceramic composition, known for its durability is an ideal tool for hard concrete surfaces.

Refined Scratch Pattern

The uniform composition of this hybrid produces a really subtle and refined scratch pattern making the transition to resins nearly seamless.

High-Heat Resistance

The unique ceramic formulation is extremely effective at withstanding high heat. The ceramic Transition is the most heat tolerant of all the hybrids.



DRY | WET | C



Transition

- Ceramic bond resists heat very effectively and quickly removes scratches left behind by metal-bond diamonds.
- Very subtle scratch pattern and is an ideal transition tool between metals and resins.

3" (75mm)	Grit
CCP30030	30
CCP30050	50
CCP30100	100
CCP30200	200

Resin Pads

Concrete & Construction

Concrete Resin Bond

Concrete is characterized as a abrasive material that can vary widely in hardness depending on the local aggregate used. Typically resin bond tools designed for concrete are run dry and require a high heat resistance. In addition, they need to be of a higher density to withstand the weight of a concrete machine that can weigh up to 10 times more than machines for stone. Concrete pads also run on planetary machine heads, which means that they rotate many times more than on a swing machine.

Heavy Machines

It is important to pair the thicker concrete floor pads with heavier machines. These pads are specifically designed to withstand the weight and are formulated for longer life often required for larger surface areas.

Honing

The step of the polishing process that refine the concrete in preparation for the polishing stage. This stage consists of resin diamond tooling within the 100-400 grit range.

Polishing

The final stages of the polishing process that refine the concrete to the specified finished gloss levels. This stage consists of resin diamond tooling that is 800 grit or higher.

Edging

Most floor machines can't get right up to the wall and leave an unpolished band of up to 7" from the wall. We offer 5" and 7" pads designed for use on hand held machines or edging machines to resolve this problem.

Countertops

The same 5" and 7" pads can also be used to polish concrete countertops and can easily handle edge work with the proper backplate.



NEW

DRY | C | Z



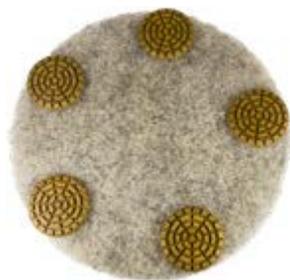
Hammer Pad - Dry

- The Hammer Pads both cleans the floor and provides a beautiful gloss.
- Get a superior result with higher clarity in a single pass.
- We've taken some of our most popular resins and combined them with a flexible fiber pad saving you time while lowering your cost per square foot.

9"	11"	17"	Grit
HMPD090200	HMPD110200	HMPD170200	200
HMPD090400	HMPD110400	HMPD170400	400
HMPD090800	HMPD110800	HMPD170800	800
HMPD091800	HMPD111800	HMPD171800	1800
HMPD093500	HMPD113500	HMPD173500	3000

NEW

WET | C | Z



Hammer Pad - Wet

- The Hammer Pads both cleans the floor and provides a beautiful gloss.
- Get a superior result with higher clarity in a single pass.
- We've taken some of our most popular resins and combined them with a flexible fiber pad saving you time while lowering your cost per square foot.

9"	11"	17"	Grit
HMPW090200	HMPW110200	HMPW170200	200
HMPW090400	HMPW110400	HMPW170400	400
HMPW090800	HMPW110800	HMPW170800	800
HMPW091800	HMPW111800	HMPW171800	1800
HMPW093500	HMPW113500	HMPW173500	3000

NEW

DRY | WET | M | C | Z



Dri Concrete

- Great for concrete floor edging and countertops.
- Works on flat as well as round over or convex surfaces.
- Ideally used dry, but can be used wet.

5" (125mm)	7" (175mm)	Grit
DRIC50050	DRIC70050	50
DRIC50100	DRIC70100	100
DRIC50200	DRIC70200	200
DRIC50400	DRIC70400	400
DRIC50800	DRIC70800	800
DRIC51500	DRIC71500	1500

NEW

DRY | C



Flare

- The Flare resin polishing pad is ideal for heavier machines.
- Yields an excellent gloss and finish.
- Designed to run dry.

3" (80mm)	Grit
FRP30050	50
FRP30100	100
FRP30200	200
FRP30400	400
FRP30800	800
FRP31500	1500
FRP33000	3000

NEW

WET | C

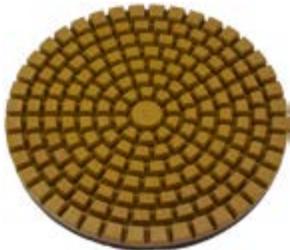


Power Wet

- The Power Wet is a wet-only concrete floor polishing pad.
- The high segments and specific formulation ensures a long-lasting tool.
- Dubbed as "One of the best wet resin pads available".

3" (80mm)	Grit
PWP30100	100
PWP30200	200
PWP30400	400
PWP30600	600
PWP30800	800
PWP31800	1800
PWP33500	3500

DRY | C



Hurricane

- The Hurricane is ideal for lighter machines.
- Best suited for smaller jobs.
- Yields an excellent gloss and finish.
- Designed to run dry.

3" (80mm)	Grit
HCP30050	50
HCP30100	100
HCP30200	200
HCP30400	400
HCP30800	800
HCP31500	1500
HCP33000	3000

DRY | WET | C



Matador

- Heavy duty rigid 8mm thick pad.
- Great performance on concrete floors and countertops.
- Works wet and dry.

4" (100mm)	5" (125mm)	7" (180mm)	Grit
MAT40030	MAT50030	MAT70030	30
MAT40050	MAT50050	MAT70050	50
MAT40100	MAT50100	MAT70100	100
MAT40200	MAT50200	MAT70200	200
MAT40400	MAT50400	MAT70400	400
MAT40800	MAT50800	MAT70800	800

DRY | WET | C | G



Flex C

- Designed for lighter machines.
- Flexible design.
- Ideal for edge polishing and concrete countertops.
- Available from 3" up to 7".

3" (75mm)	4" (100mm)	5" (125mm)	7" (180mm)
FLXC30030	FLXC40030	FLXC50030	FLXC70030
FLXC30050	FLXC40050	FLXC50050	FLXC70050
FLXC30100	FLXC40100	FLXC50100	FLXC70100
FLXC30200	FLXC40200	FLXC50200	FLXC70200
FLXC30400	FLXC40400	FLXC50400	FLXC70400
FLXC30800	FLXC40800	FLXC50800	FLXC70800
FLXC31500	FLXC41500	FLXC51500	FLXC71500
FLXC33000	FLXC43000	FLXC53000	FLXC73000



Rosex Concrete

- Gloss appears in early stages of polishing.
- Tolerates high-heat.
- Works well on both soft and hard concrete.

DRY | WET | C

3" (75mm)	Grit
ROXC30030	30
ROXC30050	50
ROXC30100	100
ROXC30200	200
ROXC30400	400
ROXC30800	800
ROXC31500	1500
ROXC33000	3000



Mustang

- This high segment design is aggressive in low grits.
- Leaves a smooth scratch pattern, a high gloss finish with no resin transfer.

DRY | WET | C

3" (75mm)	Grit
MUR30030	30
MUR30050	50
MUR30100	100
MUR30200	200
MUR30400	400
MUR30800	800
MUR31500	1500
MUR33000	3000



Spiral Concrete

- Unique formulation for high gloss polish.
- Dense formula provides long life.
- Radial edge allows for smooth riding over lippage and joints.

DRY | WET | C

3" (75mm)	Grit
SPLC30050	50
SPLC30100	100
SPLC30200	200
SPLC30400	400
SPLC30800	800
SPLC31500	1500
SPLC33000	3000



Superior Concrete

- Traditional long life pattern.
- Large channels for dust evacuation.
- Extra thick segments.
- Available for wet or dry use.

DRY | WET | C | Z

Wet 3" (75mm)	Dry 3" (75mm)	Grit
SUPW30050	SUP30050	50
SUPW30100	SUP30100	100
SUPW30200	SUP30200	200
SUPW30400	SUP30400	400
SUPW30800	SUP30800	800
SUPW31500	SUP31500	1500
SUPW33000	SUP33000	3000

NEW



Esaflex Fein

- Ideal product for corners and tight spaces.
- Indispensable tool to always have on every job.
- This shape is available in Excalibur on page 19.

WET | C | M | G | Z

Codes	Grit
ESAF0050	50
ESAF0120	120
ESAF0220	200
ESAF0400	400
ESAF0800	800
ESAF1800	1800
ESAF3500	3500

Measuring Equipment

Concrete & Construction

Digital Gloss Meter



GM001

Digital Gloss Meter Kit

Knowing Where You're Going

A mainstay product in the stone polishing business, the Gloss Meter has only recently gained momentum in concrete polishing.

The Gloss Meter is an essential tool for knowing your starting point and what gloss level you aim to achieve.

Measuring the gloss is imperative for understanding the progression of the floor polishing throughout the job. It is also often a requirement for floor restoration work.

- Quick, easy calibration
- Measurements made at 60 degree angle
- Digital design for accuracy
- Back-lit color LCD screen display
- Small size and light weight
- Rechargeable batteries
- Storage/travel case
- 60° gloss meter
- Recharge cable (AC/DC)
- Convenient carrying case
- 2 Operational boards
- Lens cloth
- Instruction booklet

Impact Hammer

The Impact Hammer is essential for determining the hardness of the concrete in order to properly pair the right bonded tool for the job. Many difficulties and additional costs can be avoided with this simple non-destructive test.

It is important to take a few readings on smooth surfaces to ensure that aggregates and other anomalies are not being measured. In addition, it is important to measure for hardness uniformity throughout the surface.

Impact Hammer Scale



Understanding The Results

Understanding the results of the impact hammer are equally important. The scale on the hammer is abbreviated.

- 6,000 + Hard concrete
- 4,000 - 5,999 Medium concrete
- 0 - 3,999 Soft concrete

Refer to page 12 of this catalog for bond pairings.



SH001

Impact Hammer

- Non-destructive hardness test
- Quick, simple to use for accurate measure of concrete's hardness
- Prevents wasted time and diamonds
- Easy to read scale – no subjective estimates from scratches
- Test hammer
- Steel anvil
- Sturdy travel/storage case
- Instruction booklet

Level	Name	Description	Minimum Steps	Gloss	DOI
1	Flat - Ground	Low reflectivity up to 400 grit polish	4-step process	10-20	10-20
2	Satin - Honed	Medium reflectivity up to 800 grit polish	5-step process	20-30	20-40
3	Semi-polished	High reflectivity up to 1500 grit polish	6-step process	30-50	40-80
4	Highly-polished	Very high reflectivity up to 3000 grit polish	7-step process	60+	80+





02

Jan-San & Maintenance

Developing innovative tools and products for surface cleaning and floor maintenance. We offer a wide range of floor buffing pads, cleaning and polishing chemicals. These pads are specific for the janitorial, cleaning services and facility maintenance industries.

PolyPads

Part of a Complete Maintenance Program

When the floor starts to show traffic wear, the PolyPad line of products can bring back the original gloss. Making daily maintenance easier. Repeated use, effectively removes scratches and helps bring back the original gloss and luster keeping the floors looking new.

Removes minor scratches and restores luster to terrazzo, concrete, marble & limestone.

Superior Performance

The PolyPad products yield optimal results using the DuraShine Machine or a high-speed burnisher.

The high diamond content in the PolyPad Plus makes it possible to achieve superior results in only 4 passes, while other maintenance pads require as many as 10 passes.

The standard PolyPad is a cost effective solution, ideal for daily use as part of a complete maintenance program.

May be run wet or dry using the DuraShine Machine, floor machines, automatic scrubbers or burnishers.

Unique Manufacturing Process

Unique manufacturing process insures long wear and high performance. All PolyPad Plus are marked with wear dots on the working surface to clearly indicate when the pad needs to be changed. The grit sizes are clearly marked on the back side of each pad so it does not wear off.

Our 50+ years of experience manufacturing diamond tools led to a unique process that yields both higher performance and longer life than competitive systems.



DRY | WET | M | C | Z

PolyPad



- Exceptional product at a competitive price.
- Effective and efficient for daily maintenance.
- Great cost savings.

5"	7"	13"	14"	15"	16"	17"	18"	19"	20"	21"	27"
PLP050200	PLP070200	PLP130200	PLP140200	PLP150200	PLP160200	PLP170200	PLP180200	PLP190200	PLP200200	PLP210200	PLP270200
PLP050400	PLP070400	PLP130400	PLP140400	PLP150400	PLP160400	PLP170400	PLP180400	PLP190400	PLP200400	PLP210400	PLP270400
PLP050800	PLP070800	PLP130800	PLP140800	PLP150800	PLP160800	PLP170800	PLP180800	PLP190800	PLP200800	PLP210800	PLP270800
PLP051500	PLP071500	PLP131500	PLP141500	PLP151500	PLP161500	PLP171500	PLP181500	PLP191500	PLP201500	PLP211500	PLP271500
PLP053000	PLP073000	PLP133000	PLP143000	PLP153000	PLP163000	PLP173000	PLP183000	PLP193000	PLP203000	PLP213000	PLP273000
PLP056000	PLP076000	PLP136000	PLP146000	PLP156000	PLP166000	PLP176000	PLP186000	PLP196000	PLP206000	PLP216000	PLP276000
PLP0512000	PLP0712000	PLP1312000	PLP1412000	PLP1512000	PLP1612000	PLP1712000	PLP1812000	PLP1912000	PLP2012000	PLP2112000	PLP2712000

PolyPad Plus



- Higher diamond content.
- Longer life and polishes faster.
- Gets a higher gloss meter reading.

5"	7"	13"	14"	15"	16"	17"	18"	19"	20"	21"	27"
PLPP050200	PLPP070200	PLPP130200	PLPP140200	PLPP150200	PLPP160200	PLPP170200	PLPP180200	PLPP190200	PLPP200200	PLPP210200	PLPP270200
PLPP050400	PLPP070400	PLPP130400	PLPP140400	PLPP150400	PLPP160400	PLPP170400	PLPP180400	PLPP190400	PLPP200400	PLPP210400	PLPP270400
PLPP050800	PLPP070800	PLPP130800	PLPP140800	PLPP150800	PLPP160800	PLPP170800	PLPP180800	PLPP190800	PLPP200800	PLPP210800	PLPP270800
PLPP051500	PLPP071500	PLPP131500	PLPP141500	PLPP151500	PLPP161500	PLPP171500	PLPP181500	PLPP191500	PLPP201500	PLPP211500	PLPP271500
PLPP053000	PLPP073000	PLPP133000	PLPP143000	PLPP153000	PLPP163000	PLPP173000	PLPP183000	PLPP193000	PLPP203000	PLPP213000	PLPP273000
PLPP056000	PLPP076000	PLPP136000	PLPP146000	PLPP156000	PLPP166000	PLPP176000	PLPP186000	PLPP196000	PLPP206000	PLPP216000	PLPP276000
PLPP0512000	PLPP0712000	PLPP1312000	PLPP1412000	PLPP1512000	PLPP1612000	PLPP1712000	PLPP1812000	PLPP1912000	PLPP2012000	PLPP2112000	PLPP2712000

DRY | WET | C | Z

EcoCare

Cleaner, Shinier Floors

Did you know that the red pad or other similar filament pads leave micro-scratches on the floor dulling the finish over time? The EcoCare is a dense, non-scratch material that efficiently removes particles without scratching the surface. The density also prevents larger abrasive debris from catching in the material potentially scratching the floor.

Absorbent & Eco-Friendly

The absorbency of the EcoCare spreads the water and soap more efficiently reducing the amount of liquid required. Less soap and water means fewer tank refills, less time wasted and is more environmentally friendly. In addition, the EcoCare last up to 10 times longer than competitive products producing far less waste.

Multi-Surface

Designed for auto-scrubbers and burnishers, the EcoCare is ideal for all floor surfaces including concrete, VCT, linoleum, marble, travertine, terrazzo, natural stone, ceramic tiles and porcelain.

DRY | WET | M | C | P | Z | V | T

Codes	Ø
DRSE12	12" (300mm)
DRSE13	13" (330mm)
DRSE14	14" (350mm)
DRSE16	16" (400mm)
DRSE20	20" (500mm)



DRY | C



Heat Pad

- Use the DuraShine Heat Pad to buff newly applied DuraCoat and to maintain its appearance.
- Offered in a high-performance and standard option.



27" (686mm)	Performance
DRSHP27	Standard
DRSHPX27	High-Performance

DRY | WET | C



Vinyl Floor Pad

- Most effective wax removal pad.
- Fast and easy when used on burnishers or swing machines.
- Brings the floor to a smooth factory-like finish.
- Prepares the floor for a fresh, new topical coating.

Codes	Ø
VPF12	12" (300mm)
VPF13	13" (330mm)
VPF14	14" (350mm)
VPF16	16" (400mm)
VPF20	20" (500mm)

Concrete Chemicals

Harden

All concrete is porous. Concrete densifiers chemically reduce the pores and hardens concrete for a better quality polish. Densifying is a critical step and is always recommended. Even restoration work can benefit from densifying if going as low as 100 grit.

Protect

Once the floor is polished, it's important to protect the polish from stains, traffic and wear. Floors subject to difficult stains such as acids and oils are particularly vulnerable. Whether choosing the Impenetro or DuraCoat, protection is essential for maintaining a clean floor.

Clean

Concrete always remains porous at some level and staining and dirt are inevitable. Select the right cleaning product to ease daily maintenance, keeping your floors looking new.



Diamond Tough

- High performance water based non-toxic chemical treatment.
- Hardens, strengthens, stabilizes, protects, and increases the mass & density of concrete structures.
- Reduces the porosity, increases the surface hardness and compression strength of the concrete.
- Makes the concrete extremely resistant to water and

Codes	Description
FTC02005	5 Gallons (19L)
FTC02055	55 Gallons (208L)

contaminant penetration while still allowing it to breath.

- Can increase the useful life of normal concrete up to 40%.



Diamond Tough Lithium

- A high performance, water-based, lithium silicate densifying treatment.
- Reduces porosity and permeability while increasing the mass and density.
- The treated surface has many times the original level of hardness and compressive strength.
- Penetrates into the concrete and will not scratch or peel off.

Codes	Description
FTC02005L	5 Gallons (19L)
FTC02055L	55 Gallons (208L)

- Concrete surfaces can then be diamond polished in order to achieve a polish of high sheen.
- Its use allows for a higher gloss to be generated, and for its increased life.



Diamond Impenetro

- Prevents stains and soils from penetrating concrete without forming a harmful film structure.
- Active ingredient forms a vertical column in the pore forming a shield.
- Acid resistant and a barrier to oil, water and grease.
- Impenetro is not a topical coating.

Codes	Description
IMP016	4x1 Gallon (4x4L)
IMP020	5.28 Gallons (20L)

- Floors are much easier to maintain and keep clean.
- Impenetro can be reapplied in high traffic areas as new pores in the concrete may be exposed by wear.



Diamond Xtract Gloss

- Exceptional floor cleaner and enhancer that protects all types of concrete floors while leaving a gloss finish.
- Cleans oil, grease and regular soils from the pores and surface.
- Gives maximum efficiency without harming the floor surface or the environment.
- Cleans better, quicker, and more thoroughly than any other

Codes	Description
XTCG012	12oz (0.4L)

product offered in the market.

- Contains proprietary ingredients that suspends soils and also pulls oil-type soils out of the pores of the concrete leaving a residue-free surface that will not attract additional soil or grease.



Duracoat

- Using new technology, DuraCoat is a metal cross-linked concrete topical that provides excellent water, isopropyl alcohol and amine resistance.
- It has long surface life and exceptional durability against scratch and scuffs on a polished concrete surface.

Codes	Description
FTC14005	5 Gallons (19L)
FTC02055	250 Gallons (950L)



Duraclean

- Neutral in pH so will not dull the gloss of DuraCoat, yet effective at daily cleaning of greasy soil and other tracked in dirt.
- Highly concentrated but highly-effective solution to lower your cost of maintenance.
- Rinse free and residue free – preventing build ups that reduce the surface’s appearance and lowering the time it takes for

Codes	Description
FTC03005	5 Gallons (19L)

effective surface maintenance.

- May be used in both mopping and automatic scrubbing applications as well as for spray application for spot cleaning.
- Will not harm any surface and is an effective cleaner on many surfaces.

Stone Chemicals

Enhance

The marble polish is designed to enhance and deepen the gloss and polish of natural stone surfaces. They are ideal for maintenance and restoration work. Using the polish will guarantee a longer, deeper shine.



Diamond Marble Polish

- Original Italian formula “Marble Polishing Compound”.
- User friendly formula limits splash etching. This is an issue found with most other polishing products.
- Does not contain oxalic acid.
- Highly effective on a broad range of limestone, travertine, onyx, marble, and terrazzo.

Codes	Description
FTC08010	10 lbs (4.5 Kilos)
FTC08025	25 lbs (11 Kilos)

- For best results use a weighted floor machine of 135-150 pounds, or a standard machine with a weighted pad driver.





03 Natural & Engineered Stone

For over 30 years, our experts have designed and formulated an array of diamond tools for countertop fabricators, stone installers, contractors and sculptors. Today, we work closely with local talent to develop solution-focused tooling for emerging materials and innovative techniques.

Floor Discs

Leveling & Removing Lippage

To achieve the highest standard in floor restoration, the process begins with grinding the floor to an even, leveled surface.

Grinding is all about lippage removal and leveling. In addition newly installed stone floors can have uneven tiles. This step removes all ledges, roughness, and brings uniformity to the stone floor.

Ideal For Floor Restoration Work

Grinding is necessary for removing deep scratches and stains in high traffic areas. Daily foot traffic with dust and debris can represent up to 200 grit of deep scratches on a floor. For long lasting results, it's crucial that these scratches be removed to ensure the highest quality shine.

DRY | WET | M | C | Z



Turbo Cat

- This turbo style vacuum brazed tool handles heavy lippage jobs on marble.
- The fully exposed diamond makes this aggressive tool hard working.
- Hook & loop backed quick load and release.

3" (75mm)	4" (100mm)	Grit
TC3030	TC4030	30
TC3050	TC4050	50
TC3100	TC4100	100

DRY | WET | M | C | Z



Bull Cat

- Continuous diamond pattern ensures smooth grinding.
- Ideal for light lippage removal on soft natural stone tiles.
- Hook & loop backed quick load and release.

5" (125mm)	Grit
BC5030	30
BC5050	50
BC5100	100

DRY | WET | M | Z | F | E | C | P | GL



Excalibur Flexible

- Flexible backing ideal for complex shapes.
- Often used like sandpaper.
- Hook & loop backed quick load and release.
- 5/8" center hole.
- Can be cut to any shape!

3" (75mm)	4" (100mm)	5" (125mm)	7" (180mm)
EXF030040	EXF040040	EXF050040	EXF070040
EXF030060	EXF040060	EXF050060	EXF070060
EXF030120	EXF040120	EXF050120	EXF070120
EXF030220	EXF040220	EXF050220	EXF070220
EXF030400	EXF040400	EXF050400	EXF070400
EXF030600	EXF040600	EXF050600	EXF070600

DRY | WET | M | Z | F | E | C | P | GL



Excalibur Rigid

- Rigid tool ideal for floor grinding.
- Hook & loop backed quick load and release.
- 5/8" center hole.
- Can be cut to any shape!

3" (75mm)	4" (100mm)	5" (125mm)	7" (180mm)
EXR030040	EXR040040	EXR050040	EXR070040
EXR030060	EXR040060	EXR050060	EXR070060
EXR030120	EXR040120	EXR050120	EXR070120
EXR030220	EXR040220	EXR050220	EXR070220
EXR030400	EXR040400	EXR050400	EXR070400
EXR030600	EXR040600	EXR050600	EXR070600

Cupwheels

Countertop Edge Grinding

Cupwheels are used on natural stone and engineered stone countertops to grind the surfaces as well as roughly cut edges. Some fabricators also use the Aluminum and Spiral cupwheels to break the edges before profiling.

Floor Edging

Many floor machines can't get right up to the wall and leave up to a 4" perimeter unpolished band. We offer 5" and 7" cupwheels for either edging machines or to fit on hand held grinders to tackle the perimeter.



Cupwheel Adapter

ADP001 5/8" Hole to 5/8-11 Thread

DRY | WET | M | G | C



DRY | WET | M | G | C



DRY | WET | M | G | C



Aluminum Turbo

- The aluminum body makes this cupwheel light and easy to handle.
- Available in coarse, medium and fine grits.

4" (100mm)	Bore	Grit
AL04CA	5/8-11 Thread	Coarse
AL04MA	5/8-11 Thread	Medium
AL04FA	5/8-11 Thread	Fine

Aluminum Turbo - Resin

- The added resin helps dampen vibrations when chamfering edges.
- Available in coarse, medium and fine grits.

4" (100mm)	Bore	Grit
ALR04CA	5/8-11 Thread	Coarse
ALR04MA	5/8-11 Thread	Medium
ALR04FA	5/8-11 Thread	Fine

Spiral

- One of our best selling cupwheels.
- Used for grinding and chamfering countertops.
- This cupwheel is easy to use.
- 5/8-11 thread.

4" (100mm)	5" (125mm)	7" (180mm)	Grit
SP04CA	SP05CA	SP07CA	Coarse (30)
SP04MA	-	-	Medium (60)
SP04FA	-	-	Fine (120)

DRY | WET | E | G



DRY | WET | M | G



DRY | WET | M | G



Tornado

- Small sintered pellets designed for very aggressive stock removal.
- Ideal for working the underside of slabs.
- Used to clean up slabs for lamination
- Removes resins and glue.

5" (125mm)	Bore
CWT0550A	5/8-11 Thread

Vacuum Brazed Cupwheel

- Works great for chamfering, or heavy grinding jobs.
- The fully exposed diamond allows the removal of material with little effort.
- Ideal for dry applications.

4" (100mm)	4 1/2" (115mm)	5" (125mm)	Bore
TFC040CA	TFC04500CA	TFC05CA	5/8-11 Thread

Fire Cupwheel

- The soft bond segments with coarse diamond grit make this cupwheel fast and aggressive.
- Excellent for chamfering granite.
- Popular double row design.

4" (100mm)	Bore
FR04A	5/8-11 Thread
FR04K	7/8" - 5/8"

Standard Profile Wheels

Precision

Our standard profile wheels are a high quality, high performance tools for edge profiling. Each position in the sequence maintains true shape integrity. 1/10th of a millimeter is what separates each position.

Performance

There are techniques to ensure prolonged performance of our profiles. By beginning with a segmented profile wheel, you're letting the stock-

remover do the hard work. The Vacuum Brazed wheels gradually shave the stone down to the proper shape and prepare the edge for polishing.

Adaptability

Our standard profile wheels come with a 8mm and 10mm center bolt for easy installation and removal on most portable stone routers.

Our standard wheels can be manufactured with a 1/2 gas connection or with a 5/8-11 attachment and center water feed upon request.

Position #1 Segmented

- Designed for heavy stock removal.
- Extremely aggressive and fast cutting.



Shape B	Size	#	Process	Grit
PWB2001S	20mm	1	Segmented	-
PWB2001Z	20mm	1	Brazed	50
PWB2002	20mm	2	Brazed	100
PWB2003	20mm	3	Brazed	200



Shape E	Size	#	Process
PWE2001S	20mm	1	Segmented
PWE3001S	30mm	1	Segmented

Position #1 Brazed

- Ideal for soft materials.
- The exposed diamond allows for fast profiling.



Shape H	Size	#	Process
PWH2001S	20mm	1	Segmented



Shape L	Size	#	Process
PWL2001S	20mm	1	Segmented



Shape O	Size	#	Process
PWO2001S	20mm	1	Segmented
PWO3001S	30mm	1	Segmented

Position #2 & 3 Brazed

- Profile actively removes scratches and lines, preparing the stone for the polishing stage.



Shape F	Size	#	Process	Grit
PWF2001S	20mm	1	Segmented	-
PWF2001Z	20mm	1	Brazed	50
PWF2002	20mm	2	Brazed	100
PWF2003	20mm	3	Brazed	200



Shape V	Size	#	Process
PWV2001S	20mm	1	Segmented
PWV3001S	30mm	1	Segmented
PWV4001S	40mm	1	Segmented
PWV6001S	60mm	1	Segmented

Natural & Engineered Stone



Standard Profile Accessories

C	BR005	#1 Segment Middle	41mm
C	BR008	#1 Brazed Middle	40.6mm
C	BR006	#2 Brazed Middle	40.1mm
C	BR007	#3 Brazed Middle	39.9mm
D	BR001	#1 Segment Bottom	41mm
D	BR004	#1 Brazed Bottom	40.6mm
D	BR002	#2 Brazed Bottom	40.1mm
D	BR003	#3 Brazed Bottom	39.9mm
A	ADP011	10mm to 5/8-11 Female	
A	ADP012	8mm to 5/8-11 Female	
B	ADP008	10mm to 1/2 Gas Male	
B	ADP009	8mm to 1/2 Gas Male	

TruForm Profile Wheels

Quality

Both the segmented and brazed tools are fast acting tools. Vacuum brazed tools have the diamonds fully exposed on the working surface. We use only the best quality diamonds on the TruForm profiles to ensure optimum results.

Wet or Dry

The TruForm profile wheels are tough tools that can be used dry for on-site jobs where water is not an option. The high quality segment and vacuum brazing process can withstand the heat of dry use.

As with all our segmented and vacuum brazed pro-

ucts, it is recommended to use the tool wet to prolong the life of the tool.

Easy To Use

TruForm profile wheels fit on any hand held grinder with its 5/8-11 attachment. The two sided wrench flat ensures effortless install and removal.

The top guide, available in high-performance composite or stainless steel, allows you to work manually keeping the wheel perfectly aligned with the slab edge.

The bottom bearing guarantees a consistent and even shape. Both bearings work independently for smooth operation.

Segmented - Metal

- Designed for heavy stock removal.
- Extremely aggressive and fast cutting.



Shape B Metal	Shape B Plastic	Size	Process
TFMB05Z	TFPB05ZK	5mm (3/16")	Brazed
TFMB07Z	TFPB07ZK	7mm (1/4")	Brazed
TFMB10Z	TFPB10ZK	10mm (3/8")	Brazed
TFMB12Z	TFPB12ZK	12mm (1/2")	Brazed
TFMB15Z	TFPB15ZK	15mm (5/8")	Brazed
TFMB20Z	TFPB20ZK	20mm (3/4")	Brazed
TFMB25Z	TFPB25ZK	25mm (1")	Brazed

Brazed - Metal

- Lighter weight option to the segmented profile.
- High quality vacuum brazing.
- Durable metal guide.



Shape E Metal	Shape E Plastic	Size	Process
TFME05Z	TFPE05ZK	5mm (3/16")	Brazed
TFME07Z	TFPE07ZK	7mm (1/4")	Brazed
TFME10Z	TFPE10ZK	10mm (3/8")	Brazed
TFME15Z	TFPE15ZK	15mm (5/8")	Brazed
TFME20Z	TFPE20ZK	20mm (3/4")	Brazed

Brazed - Plastic

- Lighter weight option to the segmented profile.
- High quality vacuum brazing.
- Smooth plastic guide.



Shape F Metal	Shape F Plastic	Size	Process
TFMF20Z	TFPF20ZK	20mm (3/4")	Brazed
TFMF20S		20mm (3/4")	Segmented

Natural & Engineered Stone

WET | M | G



Tile Profile Wheel

- Fits most tile saws.
- Designed for fast and effective profiling of ceramic, porcelain and stone tiles.
- 5/8" arbor.
- Standard 50 grit vacuum brazed diamond.

6"	Shape	Radius	Grit
TPV06B0375050	B	3/8"	50
TPV06B0500050	B	1/2"	50

Core Drills

A variety of drill bits and finger bits are available in vacuum brazed, sintered and electroplated bonds for various applications from cutting holes to round edges on drills and CNC machines.

The standard 5/8-11 thread can be coupled with various attachments for CNC and drill press machines.

DRY | WET | M | P | E | T

VB Core Drill



- The high concentration of exposed diamond for long tool life, fast and efficient coring.
- Side windows for easy evacuation of carrot.
- More sizes available, can be custom made.

Codes	Ø	Codes	Ø	Codes	Ø	Codes	Ø
TFCD0250A	1/4"	TFCD1375A	1 3/8"	TFCD2375A	2 3/8"	TFCD4000A	4"
TFCD0500A	1/2"	TFCD1500A	1 1/2"	TFCD2500A	2 1/2"	TFCD4250A	4 1/4"
TFCD0625A	5/8"	TFCD1625A	1 5/8"	TFCD2625A	2 5/8"	TFCD4500A	4 1/2"
TFCD0750A	3/4"	TFCD1750A	1 3/4"	TFCD2750A	2 3/4"	TFCD4750A	4 3/4"
TFCD0875A	7/8"	TFCD1875A	1 7/8"	TFCD3000A	3"	TFCD5000A	5"
TFCD1000A	1"	TFCD2000A	2"	TFCD3250A	3 1/4"	TFCD5500A	5 1/2"
TFCD1125A	1 1/8"	TFCD2125A	2 1/8"	TFCD3375A	3 3/8"	TFCD6000A	6"
TFCD1250A	1 1/4"	TFCD2250A	2 1/4"	TFCD3500A	3 1/2"	TFCD6500A	6 1/2"

NEW

Thin Wall Core Drill



- Our Thin Wall Core Drills have dramatically improved with a 1mm thin wall that effortlessly cuts through granite, engineered stone, glass, Dekton® and porcelain tile without chipping.
- The 6mm high sintered crown gives a long tool life. In testing, this drill made 100's of holes!
- Recommended for CNC and drill press machines.

WET | T | G | E | GL | M

Codes	Ø	Codes	Ø
TWCD1250A	1/8"	TWCD0750B	1"
TWCD0250A	1/4"	TWCD1000B	11/4"
TWCD0375A	3/8"	TWCD1375A	1 3/8"
TWCD0500A	1/2"	TWCD1500A	1 1/2"
TWCD0625A	5/8"	TWCD1750A	1 3/4"
TWCD0750A	3/4"		

- 5/8-11 thread. 1/2-Gas attachment available by request.

DRY | WET | G | E

Segmented Core Drill



- High diamond segments give long cutting life on coring granite.
- Side wall protection for a smoother cut.
- Must be used wet.

Codes	Ø
DCD0750A	3/4"
DCD1000A	1"
DCD1250A	1 1/4"
DCD1375A	1 3/8"
DCD1500A	1 1/2"
DCD1750A	1 3/4"
DCD2000A	2"
DCD2500A	2 1/2"

Core Drill Accessories



A



B



C



D

	Codes	Description
A	ADP003	5/8 -11 Female - 5/8-11 Male
A	ADP004	5/8 -11 Female - 5/8-18 Male
A	ADP005	5/8 -11 Female - 1/2-20 Male
B	ADP002	5/8 -11 Male - 1/2 Gas Male
C	ADP007	1/2" Hex shank - 5/8-11 Male
D	ADP006	3 Side 3/8" Shank - 5/8-11 Male

Drums

The ideal tool for grinding a smooth and even sink hole. Ideal for finishing the inside radius in granite, marble and engineered stone slabs.

High-Quality Brazing

The fully exposed diamond allows you to remove material with little effort. It's fast and efficient on most all materials.

East To Use

A standard 5/8-11 thread to fit any stone grinder. The two sided wrench flat ensures effortless install and removal. We offer with or without the guide bearing.

Wet or Dry

Water holes are available for machines with water connections.

DRY | WET | M | G | E



Vanity Drum - Bearing

- The top bearing acts as a guide when working manually.
- Grinds uneven surfaces after cutting sink holes.
- Ideal for preparing the edge for final polishing.
- 5/8-11 Thread.

Codes	ø x L	Grit
DMB011750040A	1" X 1 3/4"	40
DMB0117500080A	1" X 1 3/4"	80
DMB0202040A	2" X 2"	40
DMB0202080A	2" X 2"	80
DMB0302040A	3" X 2"	40
DMB0302080A	3" X 2"	80

- 100 grit available.

DRY | WET | M | G | E



Vanity Drum - No Bearing

- Grinds uneven surfaces after cutting sink holes.
- Ideal for preparing the edge for final polishing.
- 5/8-11 Thread.

Codes	ø x L	Grit
DM0102040A	1" X 2"	40
DM0102080A	1" X 2"	80
DM0202040A	2" X 2"	40
DM0202080A	2" X 2"	80
DM0302040A	3" X 2"	40
DM0302080A	3" X 2"	80

- 100 grit available.

Drills & Finger Bits

DRY | WET | T | P | F | L | M



Vacuum Brazed Twist Drills

- Excellent for penetrating stone with a standard drill and making pilot holes.

Codes	ø
TFTD0062	1/16"
TFTD0125	1/8"
TFTD0187	3/16"
TFTD0250	1/4"
TFTD0312	5/16"
TFTD0375	3/8"
TFTD0500	1/2"

WET | M



Vacuum Brazed Finger Bit

- Ideal for marble and soft stones.
- Fast and smooth when cleaning up sink cutouts.
- Center water feed, 1/2 gas thread.
- 5/8-11 & 1/2 gas thread.

Codes	ø	L	Thread
FBZ2246B	7/8" (22mm)	113/16" (46mm)	1/2 Gas

WET | G | E



Segmented Finger Bit

- Soft bond formulation for fast cutting of hard materials.
- Diagonal segments at the bottom of the tool allows for drilling.
- 5 segments, center water feed.
- 5/8-11 & 1/2 gas thread.

Codes	ø	L	Thread
FBS2246A	7/8" (22mm)	113/16" (46mm)	5/8-11 Thread
FBS2246B	7/8" (22mm)	113/16" (46mm)	1/2 Gas

Routers

A Shape For Any Application

We manufacture a wide variety of standard routers. Choose a shape from one of our 7 major categories to suit your application.

We have manufactured and designed thousands of routers over the years. The following pages are a list of our most popular router shapes and dimensions.

If you can't find what you need, don't hesitate to call one of our knowledgeable sales staff for a quote on a custom shape.

Vacuum Brazed To The Highest Standards

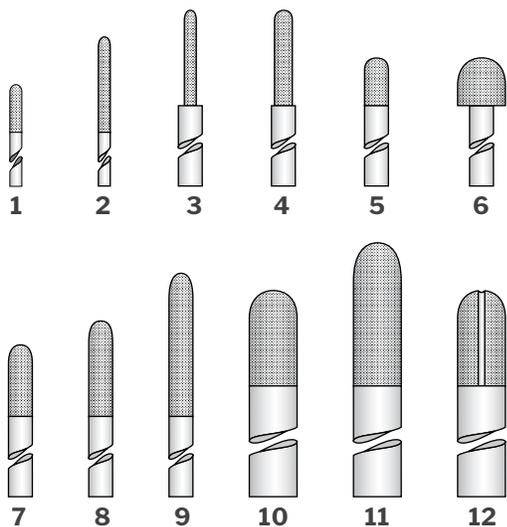
Our most popular routers are all vacuum brazed with the highest quality and precision. The diamond coatings are carefully placed to ensure even coverage.

The vacuum brazing process is monitored closely to ensure that each router is manufactured to spec.

Although our most popular routers are vacuum brazed, we do offer electroplated routers upon request.

DRY | WET | M | P | E

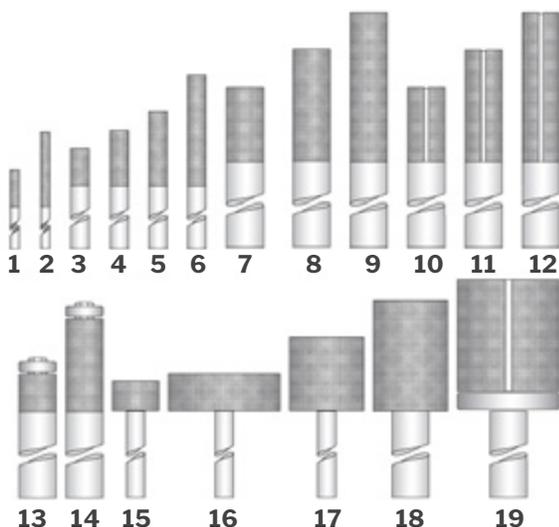
Straight - Round tip



Code	Tip ø D	Tip Length	Shank ø	Shank Length	OAL	
1	R01-VB0001-G040	1/8"	1/2"	1/8"	1 1/2"	2"
2	R01-VB0002-G040	1/8"	1"	1/8"	1"	2"
3	R01-VB0014-G040	1/8"	1"	1/4"	1 1/2"	2 1/2"
4	R01-VB0015-G040	3/16"	1"	1/4"	1 1/2"	2 1/2"
5	R01-VB0003-G040	1/4"	1/2"	1/4"	1 1/2"	2"
6	VCR016	1/2"	1/2"	1/4"	2"	2 1/2"
7	R01-VB0004-G040	1/4"	3/4"	1/4"	1 1/4"	2"
8	R01-VB0005-G040	1/4"	1"	1/4"	1"	2"
9	R01-VB0006-G040	1/4"	1 1/2"	1/4"	1 1/2"	3"
10	R01-VB0007-G040	1/2"	1"	1/2"	1 1/2"	2 1/2"
11	R01-VB0008-G040	1/2"	1 1/2"	1/2"	1 1/2"	3"
12	R01-VB0010-G040	1/2"	1"	1/2"	1 1/2"	2 1/2"

DRY | WET | M | P | E

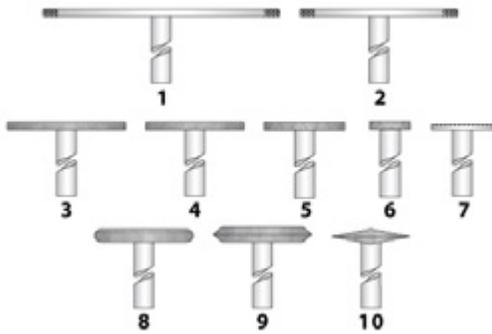
Straight - Flat tip



Code	Tip ø D	Tip Length	Shank ø	Shank Length	OAL	
1	R02-VB0001-G040	1/8"	1/2"	1/8"	1 1/2"	2"
2	R02-VB0002-G040	1/8"	1"	1/8"	1"	2"
3	R02-VB0003-G040	1/4"	1/2"	1/4"	1 1/2"	2"
4	R02-VB0004-G040	1/4"	3/4"	1/4"	1 3/4"	2 1/2"
5	R02-VB0005-G040	1/4"	1"	1/4"	1 1/2"	2 1/2"
6	R02-VB0006-G040	1/4"	1 1/2"	1/4"	1 1/2"	3"
7	R02-VB0007-G040	1/2"	1"	1/2"	1 1/2"	2 1/2"
8	R02-VB0008-G040	1/2"	1 1/2"	1/2"	1 1/2"	3"
9	R02-VB0009-G040	1/2"	2"	1/2"	1 1/2"	3 1/2"
10	R02-VB0011-G040	1/2"	1 1/2"	1/2"	2"	3 1/2"
11	R02-VB0016-G040	1/2"	1 1/4"	1/2"	1 1/2"	2 3/4"
12	VCR015	5/8"	13/32"	1/4"	2"	2 13/32"
13	R02-VB0020-G040	1 1/2"	1/2"	1/4"	2"	2 1/2"
14	R02-VB0017-G040	1"	1"	1/4"	2"	3"
15	R02-VB0018-G040	1"	1 1/2"	1/2"	1 1/2"	3"
16	R02-VB0019-G040	1 3/8"	1 1/2"	1/2"	1 1/2"	-
17	R02-VB0017-G040	1"	1"	1/4"	2"	3"
18	R02-VB0018-G040	1"	1-1/2"	1/2"	1-1/2"	3"
19	R02-VB0019-G040	1-3/8"	1-1/2"	1/2"	1-1/2"	-

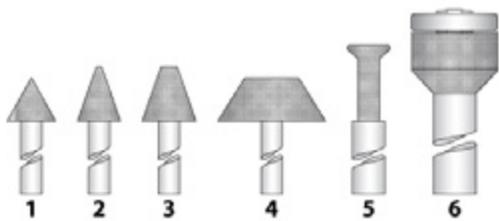
Natural & Engineered Stone

Wheel - Knife - Blade



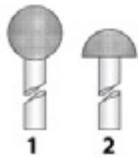
DRY WET M P E						
Code	Tip ø D	Tip Thickness	Shank ø	Shank Length	OAL	
1 VCR024	3"	1/8"	1/4"	2"	2 3/32"	
2 VCR001	2"	3/32"	1/4"	2"	2 3/32"	
3 VCR002	1 1/2"	3/32"	1/4"	2"	2 3/32"	
4 VCR003	1 1/4"	3/32"	1/4"	2"	2 3/32"	
5 VCR004	1"	3/32"	1/4"	2"	2 3/32"	
6 VCR005	1/2"	3/32"	1/4"	2"	2 3/32"	
7 VCR006	3/4"	1/16"	1/4"	2"	2 1/16"	
8 VCR007	1 1/4"	5/32"	1/4"	2"	2 5/32"	
9 VCR008	1 1/4"	3/16"	1/4"	2"	2 3/16"	
10 VCR009	1"	3/16"	1/4"	2"	2 3/16"	

Cone - Tapered - Dovetail



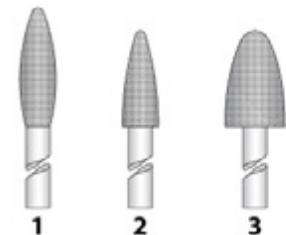
DRY WET M P E						
Code	Tip ø D	Tip ø D2	Tip Length	Shank ø	Shank Length	OAL
1 VCR014	9/16"	-	1/2"	1/4"	2"	2 1/2"
2 VCR017	1/2"	1/16"	5/8"	1/4"	2"	2 5/8"
3 VCR012	5/8"	3/16"	5/8"	1/4"	2"	2 5/8"
4 R03-VB0002-G030	1 1/4"	5/8"	1/2"	1/4"	2"	2 1/2"
5 VCR023	1/2"	1/4"	3/4"	3/8"	2"	2 3/4"
6 R06-VB0001-G040	1"	1 1/2"	7/16"	1/2"	1 1/2"	-

Sphere



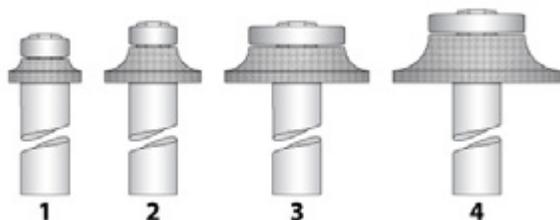
DRY WET M P E						
Code	Tip ø D	Tip Length	Shank ø	Shank Length	OAL	
1 VCR013	5/8"	5/8"	1/4"	2"	2 5/8"	
2 VCR018	5/8"	5/16"	1/4"	2"	2 5/16"	

Oblong - Parabola



DRY WET M P E						
Code	Tip ø D	Tip Length	Shank ø	Shank Length	OAL	
1 VCR019	3/8"	1 1/4"	1/4"	2"	3 1/4"	
2 VCR022	3/8"	5/8"	1/4"	2"	3"	
3 VCR021	5/8"	1"	1/4"	2"	3"	

Profile Router



DRY WET M P E						
Code	Tip ø D	Tip Radius	Shank ø	Shank Length	OAL	
1 R14-VB001-G040	3/4"	1/8"	1/2"	1 1/2"	2 1/2"	
2 R14-VB002-G040	1"	1/4"	1/2"	1 1/2"	2 1/2"	
3 R14-VB004-G040	1 1/2"	1/4"	1/2"	2"	3 1/2"	
4 R14-VB003-G040	1 3/4"	3/8"	1/2"	2"	3 1/2"	

Natural & Engineered Stone

Floor Pads

Marble Resin Bond

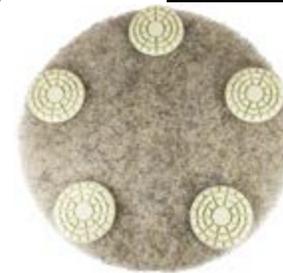
Marble and other natural stone in the marble category, such as limestone and travertine, are all soft and delicate stones that require a specifically formulated matrix. Marble scores between 3 and 5 on the Mohs hardness scale, and is comprised of metamorphosed limestone. Typically marble resin bonded tools run wet to diminish the heat build-up and subsequent resin transfer onto the surface. The resin wears at a slower rate as to not prematurely expose new diamond crystals that can heavily scratch the delicate surface.

Granite Resin Bond

Granite can be up to twice as hard as marble scoring between a 6 and 7 on the mohs hardness scale. Granite is an igneous rock that contains quartz crystals. A resin bond designed for granite will wear to expose new diamond crystals to effectively grind and polish the surface. These pads typically have a higher tolerance for heat and are proportionately denser to tackle a harder surface. The quartz and density of the granite requires a more robust matrix and a higher-grade diamond.

NEW

WET | M



Hammer Pad - Snow

- The Hammer Pads both cleans the floor and provides a beautiful gloss.
- Get a superior result with higher clarity in a single pass.
- We've taken some of our most popular resins and combined them with a flexible fiber pad saving you time while lowering your cost per square foot.

9"	11"	17"	Grit
HMPS090200	HMPS110200	HMPS170200	200
HMPS090400	HMPS110400	HMPS170400	400
HMPS090800	HMPS110800	HMPS170800	800
HMPS091800	HMPS111800	HMPS171800	1800
HMPS093500	HMPS113500	HMPS173500	3000

Natural & Engineered Stone

WET | M



Spiral

- Ideal for restoration jobs.
- High 6mm segment designed for long product life.
- Beveled edge easily rides over lippage.

3" (75mm)	Grit
SPL30030	30
SPL30050	50
SPL30120	120
SPL30220	220
SPL30400	400
SPL30600	600
SPL30800	800
SPL31800	1800
SPL33500	3500
SPL38500	8500

WET | M



Rosex

- Unique water channel design for easy swarf removal.
- Ideal for restoration jobs.
- Beveled edge easily rides over lippage.

3" (75mm)	4" (100mm)	Grit
ROX30030	ROX40030	30
ROX30050	ROX40050	50
ROX30120	ROX40120	120
ROX30220	ROX40220	220
ROX30400	ROX40400	400
ROX30600	ROX40600	600
ROX30800	ROX40800	800
ROX31800	ROX41800	1800
ROX33500	ROX43500	3500
ROX38500	ROX48500	8500

WET | M



Typhoon

- One of our most popular pads!
- Large water channels are designed for easy swarf removal.
- Extra thick 9mm segments designed for long product life.

3" (75mm)	4" (100mm)	Grit
TYP30030	TYP40030	30
TYP30050	TYP40050	50
TYP30120	TYP40120	120
TYP30220	TYP40220	220
TYP30400	TYP40400	400
TYP30600	TYP40600	600
TYP30800	TYP40800	800
TYP31800	TYP41800	1800
TYP33500	TYP43500	3500
TYP38500	TYP48500	8500

WET | L | M | V

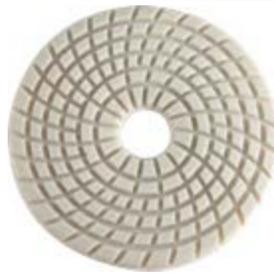


Snow Pro

- Ideal for restoration jobs.
- High 6mm segment designed for long product life.
- Beveled edge easily rides over lippage.

3" (75mm)	Grit
SNWP30030	30
SNWP30050	50
SNWP30100	100
SNWP30200	200
SNWP30400	400
SNWP30800	800
SNWP31800	1800
SNWP33500	3500
SNWP38500	8500

WET | L | M | V



Snow

- Produces excellent clarity and a deep shine.
- Can reduce number of steps needed.
- Follow with Diamond Marble Paste or Diamond Granite Polish.
- Maintain with PolyPad Plus.

3" (75mm)	Grit
SNW30030	30
SNW30050	50
SNW30100	100
SNW30200	200
SNW30400	400
SNW30800	800
SNW31800	1800
SNW33500	3500
SNW38500	8500

WET | M

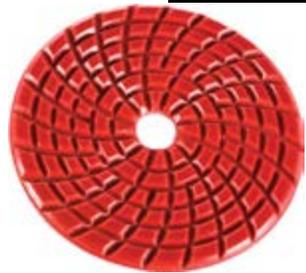


Tech Pad

- Unique tear drop design.
- Large water channels are designed for easy swarf removal.
- Extra thick 9mm segments designed for long product life.
- *OCP= One cut polish

3" (75mm)	Grit
TECH0050	50
TECH0120	120
TECH0220	220
TECH0400	400
TECH0800	800
TECH1800	1800
TECH3500	3500
TECHOCP	OCP*

WET | C | Z | M



Diatech

- Edge is designed to ride over lippage.
- Water channel designed for easy swarf removal.
- Ideal for floor polishing & countertops.

3" (75mm)	5" (125mm)	7" (180mm)	Grit
DT40030	DT50030	DT70030	30
DT40050	DT50050	DT70050	50
DT40120	DT50120	DT70120	120
DT40220	DT50220	DT70220	220
DT40400	DT50400	DT70400	400
DT40600	DT50600	DT70600	600
DT40800	DT50800	DT70800	800
DT41800	DT51800	DT71800	1800
DT43500	DT53500	DT73500	3500
DT48500	DT58500	DT78500	8500

WET | G



Rosex Granite

- Unique water channels for easy swarf removal.
- Special bond designed for granite.
- 6mm height for long product life.

3"(75mm)	Grit
ROXG30030	30
ROXG30050	50
ROXG30100	100
ROXG30200	200
ROXG30400	400
ROXG30600	600
ROXG30800	800
ROXG31500	1500
ROXG33000	3000
ROXG38500	8500

WET | G



G-Floor

- Special resin bond designed for floor polishing.
- Excellent performance on granite.
- Turbo design is efficient for water circulation.

3" (75mm)	4" (100mm)	Grit
GFL30050	GFL40050	50
GFL30100	GFL40100	100
GFL30200	GFL40200	200
GFL30400	GFL40400	400
GFL30600	GFL40600	600
GFL30800	GFL40800	800
GFL31500	GFL41500	1500
GFL33000	GFL43000	3000

Fabricator Pads

Once the sink & faucet holes have been roughly cut and the edges have been profiled, it's time to proceed to the polishing stage.

Edge polishing

Our countertop fabricator pads are designed for maximum flexibility for polishing complex edges such as ogee and dupont profiles. The smaller pellets and increased number of water channels allow for extremely flexible resin pads. We offer a variety of

flexible and foam backplates that provide the right amount of support and cushion.

Surface polishing

On occasion, factory finish surfaces need to be repaired and polished back to their original gloss.

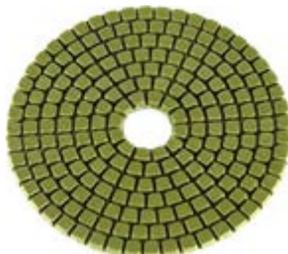


Cerameka

- High quality resin formulation.
- Proven to be a long lasting pad.
- Flexible construction that is ideal for complex shapes and edge work.

WET | G

3" (75mm)	4" (100mm)	5" (125mm)	Grit
CP30050	CP40050	CP50050	50
CP30100	CP40100	CP50100	100
CP30200	CP40200	CP50200	200
CP30400	CP40400	CP50400	400
CP30600	CP40600	CP50600	600
CP30800	CP40800	CP50800	800
CP31500	CP41500	CP51500	1500
CP33000	CP43000	CP53000	3000
CP3BUFFB	CP4BUFFB	CP5BUFFB	Buff Black
CP3BUFFW	CP4BUFFW	CP5BUFFW	Buff White



SuperFlex

- Great pad with great value!
- The flexible construction is ideal for countertops.
- Ideal for private label programs.

WET | G

4" (100mm)	5" (125mm)	Grit
SF40050	SF50050	50
SF40100	SF50100	100
SF40200	SF50200	200
SF40400	SF50400	400
SF40800	SF50800	800
SF41500	SF51500	1500
SF43000	SF53000	3000
SF4BUFFB	SF5BUFFB	Buff Black
SF4BUFFW	SF5BUFFW	Buff White



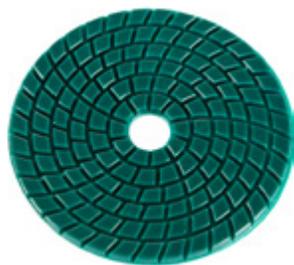
Tiger

- Great price-point pad!
- Extremely flexible pad to get around intricate edges.
- Ideal fabricator pad.

WET | G

4" (100mm)	5" (125mm)	Grit
TIG40050	TIG50050	50
TIG40100	TIG50100	100
TIG40200	TIG50200	200
TIG40400	TIG50400	400
TIG40800	TIG50800	800
TIG41500	TIG51500	1500
TIG43000	TIG53000	3000
TIG4BUFF		BUFF

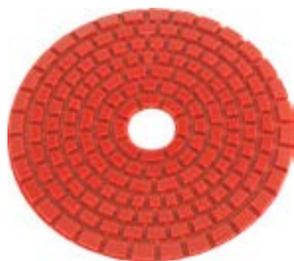
WET | G

**G-Flex**

- Special resin bond designed for granite.
- Spiral design creates a uniform scratch pattern.
- Ideal for flat surfaces.

4" (100mm)	Grit
GF40050	50
GF40100	100
GF40200	200
GF40400	400
GF40600	600
GF40800	800
GF41500	1500
GF43000	3000

WET | M

**Diaflex**

- European formulated marble pad.
- Pattern is designed for flexibility.
- Great for flat work but flexible enough to handle curves.

3" (75mm)	4" (100mm)	5" (125mm)	Grit
DF30030	DF40030	DF50030	30
DF30050	DF40050	DF50050	50
DF30120	DF40120	DF50120	120
DF30220	DF40220	DF50220	220
DF30400	DF40400	DF50400	400
DF30600	DF40600	DF50600	600
DF30800	DF40800	DF50800	800
DF31800	DF41800	DF51800	1800
DF33500	DF43500	DF53500	3500
DF38500	DF48500	DF58500	8500

Hybrid Pads

Metal Powder Mix

Hybrids are resin pads that are mixed with metal powder and diamond grit. The mix is very uniform and results in a subtle and refined scratch pattern. These pads tolerate high heat and are ideal on heavier machines.

Aggressive In Low Grits

These hybrid pads can be very aggressive in lower grits and can be used for removing deep scratches in restoration work. The uniform scratch pattern prepares the surface for the polishing steps. These hybrid pads work well on granite and engineered stone.

WET | C | G | E

**Shine**

- Our most successful multipurpose pad.
- Copper bond exterior with resin bond interior.
- Will not leave waves or ripples.

4" (100mm)	5" (125mm)	Grit
SP40030	SP50030	30
SP40050	SP50050	50
SP40100	SP50100	100
SP40200	SP50200	200
SP40400	SP50400	400
SP40800	SP50800	800
SP41500	SP51500	1500
SP43000	SP53000	3000

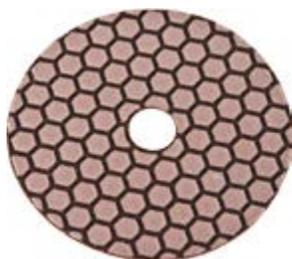
WET | E | G | C

**Hexagon**

- Designed for flat grinding and honing.
- Honeycomb pattern in the copper bond is ideal for very aggressive work.
- Ideal for concrete & granite countertops.

4" (100mm)	5" (125mm)	Grit
HX40030	HX50030	30
HX40050	HX50050	50
HX40100	HX50100	100
HX40200	HX50200	200
HX40400	HX50400	400

Dry Pads



Dri

- Ideal pad for on-site repairs.
- Popular honeycomb design.

DRY M G C		
4" (100mm)	5" (125mm)	Grit
DRI40050	DRI50050	50
DRI40100	DRI50100	100
DRI40200	DRI50200	200
DRI40400	DRI50400	400
DRI40800	DRI50800	800
DRI41500	DRI51500	1500
DRI43000	DRI53000	3000
DRI4BUFFB	DRI5BUFFB	Buff Black
DRI4BUFFW	DRI5BUFFW	Buff White



Dri Flexible

- By far the most flexible dry pad on the market!
- This dry pad can handle the most complex profiles with ease.
- Pairs with the Ultra Flexible backplate.

DRY M G C		
4" (100mm)		Grit
DRIF40050		50
DRIF40100		100
DRIF40200		200
DRIF40400		400
DRIF40800		800
DRIF41500		1500
DRIF43000		3000



Sahara

- Ideal pad for on-site repairs.
- Cost-effective with excellent quality.
- Best for lighter colored stones.
- Gains flexibility after continual use.

DRY M G		
4" (100mm)		Grit
DRY40050		50
DRY40100		100
DRY40200		200
DRY40400		400
DRY40800		800
DRY41500		1500
DRY43000		3000

Engineered Stone Pads

Engineered Stone

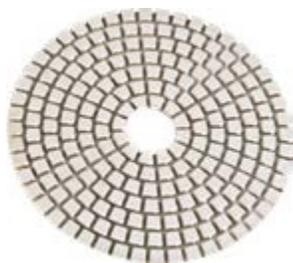
This man-made material presents a host of new challenges for fabricators. These surfaces can contain quartz, glass, marble or granite particles. The variety of particles present can make choosing the right product a challenge. Unlike natural stone, engineered stone come in a variety of colors including bright whites. Our resin pads will leave no resin transfer.



E-Cobra

- Added flexibility for Ogee and Cove profiles.
- Smooth honeycomb design.
- No color transfer. Ideal for darker engineered stone.

WET E		
4" (100mm)		Grit
COBE40050		50
COBE40100		100
COBE40200		200
COBE40400		400
COBE40800		800
COBE41500		1500
COBE43000		3000



Gamma

- The flexible design is ideal for edge work or complex shapes.
- Beautiful shine with depth & clarity to match the factory finish.

WET E		
4" (100mm)	5" (125mm)	Grit
GAM40050	GAM50050	50
GAM40100	GAM50100	100
GAM40200	GAM50200	200
GAM40400	GAM50400	400
GAM40800	GAM50800	800
GAM41500	GAM51500	1500
GAM43000	GAM53000	3000
GAM4BUFFB	GAM5BUFFB	Buff Black



Quartz Pro Snailock

- Great value.
- Specially designed resin channels to evacuate debris efficiently.
- Long lasting pad with thick resin height.

WET E G		
4" (100mm)	5" (125mm)	Grit
HPW30050SN	HPW40050SN	50
HPW30100SN	HPW40100SN	100
HPW30200SN	HPW40200SN	200
HPW30400SN	HPW40400SN	400
HPW30800SN	HPW40800SN	800
HPW31500SN	HPW41500SN	1500
HPW33000SN	HPW43000SN	3000

Step Systems

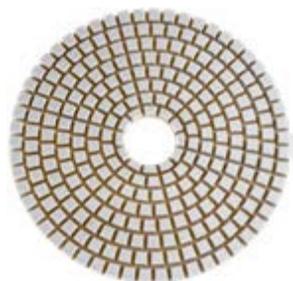
The Star and Nova are both new 3-step polishing systems designed to cut down on the number of polishing steps when polishing the edges of granite, marble and engineered stones.

Both pads have been extensively tested and polished edges came within 2% of the surface polish when measured with a gloss meter. Even Nero Assoluto

polished extremely well.

Cutting the number of steps is obviously a time saver, but this system has proven it's worth in the quality of the shine it produces in so few steps.

Extra steps, such as the 0 and the 4 (Buff), offer aggressiveness for rougher surfaces and additional options for polishing dark granites.



Nova

- For granite, marble and engineered stone.
- Fast but effective 1,2,3 step polishing system.
- Step 0 is aggressive and is used for very rough surfaces.
- Step 4 is only for dark granites which are typically very hard to polish.

WET M G E		
4" (100mm)	5" (125mm)	Position
F3P0400	F3P0500	0
F3P0401	F3P0501	1
F3P0402	F3P0502	2
F3P0403	F3P0503	3
F3P0404	F3P0504	4



Star

- 3 steps instead of 7 steps.
- Time savings due to cutting out steps.
- Ideal for light colored granite.
- Add the buff step to dark materials for an enhanced shine.
- Granite formulation.

WET E G M	
4" (100mm)	Position
STP0401	1
STP0402	2
STP0403	3
STP04BF	Buff

Other Polishing Tools

DRY | M | G | E



Antique Brush Snailock

- Gives amazing antique finish to marble, granite and engineered stone surfaces.
- Good for texturing surfaces.

4" (100mm)	5" (125mm)	
AB4024SN	AB5024SN	24
AB4036SN	AB5036SN	36
AB4046SN	AB5046SN	46
AB4080SN	AB5080SN	80
AB4120SN	AB5120SN	120
AB4240SN	AB5240SN	240

DRY | WET | M | G | GL



DP Kit

- Small grinding & polishing discs for corners and small areas.
- Designed to be used with your hand held drill or Dremel.
- Perfect for touch-up work.
- Ideal for artisan shops working with natural stones or glass.

DPKITC	18 Piece set
10x	1 1/4" Esaflax resin (30-8500 Grit)
6x	1 1/4" Excalibur discs (40-600 Grit)
1x	1 1/4" Riser pad
1x	1 1/4" Rigid backplate & pin

DRY | WET | M | G | GS | F | E | P | Z



Flat Hand Pad

- Ideal for on-site repair work and small touch-ups.

Codes	Process	Grit
HR22500060	Electroplated	60
HR22500120	Electroplated	120
HR22500200	Electroplated	200
HR22500400	Electroplated	400
HR22500800	Electroplated	800
HR22500800R	Resin	800R
HR22501800R	Resin	1800R
HR225012000R	Resin	12000R

DRY | WET | M | G | GS | F | E | P | Z



Star Hand Pad

- An economy option for ideal for on-site repair work and small touch-ups.

Codes	Process	Grit
HST22500050	Electroplated	50
HST22500100	Electroplated	100
HST22500200	Electroplated	200
HST22500400	Electroplated	400
HST22500400R	Resin	400R
HST22500800R	Resin	800R
HST22501500R	Resin	1500R
HST22503000R	Resin	3000R

DRY | WET | M | G | GS | F | E | P | Z



Ogee Hand Pad

- For Ogee profiled edges.
- Ideal for repair work and small touch-ups.

Codes	Process	Size	Grit
HF200060	Electroplated	20mm	60
HF200120	Electroplated	20mm	120
HF200200	Electroplated	20mm	200
HF200400	Electroplated	20mm	400
HF200800	Electroplated	20mm	800
HF200800R	Resin	20mm	800R
HF201800R	Resin	20mm	1800R
HF2012000R	Resin	20mm	12000R

Backplates & Accessories



Standard

5/8-11 Thread

BPST03A	3" (75mm)
BPST04A	4" (100mm)
BPST05A	5" (125mm)
BPST07A	7" (180mm)



Econo

5/8-11 Thread

PBP03A	3" (75mm)
PBP04A	4" (100mm)
PBP05A	5" (125mm)
PBP07A	7" (180mm)



Aluminum

5/8-11 Thread

BPAL04A	4" (100mm)
BPAL05A	5" (125mm)



Rigid Rubber

5/8-11 Thread

BPRR03A	3" (75mm)
BPRR04A	4" (100mm)
BPRR05A	5" (125mm)



Ultra Flexible

5/8-11 Thread

BPRU04A	4" (100mm)
BPRU05A	5" (125mm)



Flexible Rubber

5/8-11 Thread

BPRF04A	4" (100mm)
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Polar Floor Plate

FLPMM1706	17" with 6 Magnetic Backplates
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Floor Plate Mighty Lok III

FLPM17	17"
FLPM20	20"



Floor Plate with Backplates

FLP1745	4 X 5" Backplates
FLP1754	5 X 4" Backplates
FLP1763	6 X 3" Backplates



Flat

5/8-11 Thread

BPFL03A	3" (75mm)
BPFL04A	4" (100mm)
BPFL05A	5" (125mm)



Double Foam

5/8-11 Thread

BPDF03A	3" (75mm)
BPDF04A	4" (100mm)
BPDF05A	5" (125mm)
BPDF07A	7" (175mm)



Dense Foam

DFR03	3" (75mm)
DFR04	4" (100mm)
DFR05	5" (125mm)



Standard Foam

FR03	3" (75mm)
FR04	4" (100mm)
FR05	5" (125mm)



Snaillock Plastic

SNLKP04A	4" (100mm)
SNLKP05A	5" (125mm)



Snaillock Aluminum

SNLKA04A	4" (100mm)
SNLKA05A	5" (125mm)

Cutting Blades

We offer the highest quality diamond stone cutting blades. From marble cutting blades, granite cutting blades, engineered stone cutting blades, porcelain & ceramic tile cutting, or even glass cutting blades, we can supply all of your stone and tile cutting needs.

Whether you are in need of diamond turbo blades for dry diamond stone cutting, diamond segmented blades, continuous rim diamond tile blades or continuous rim glass cutting blades, we can meet your diamond tool needs.

Flanges

Blade Flanges - Brass



FLG001 Flush mount for 4"-7" blades
5/8"-11 Thread

Blade Flanges - Steel



FLG009 Flush mount for 4"-7" blades
5/8"-11 Thread

Blade Flanges - Aluminum



FLG007 Flush mount for 8"-10" blades
7/8" Hole

DRY | WET | C | G | M

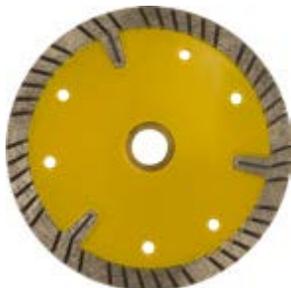


ABC Granite Turbo

- High sintered rim gives this blade extended life.
- The design of the turbo edge provides chip-free cutting.
- Proven performance makes this an ideal general purpose blade.
- 4-hole flange mount.

Code	ø	↔	Arbor
ABC0408K	4" (100MM)	.080"	7/8"-5/8"
ABC450008K	4 1/2" (115MM)	.080"	7/8"-5/8"
ABC0509K	5" (125MM)	.090"	7/8"-5/8"
ABC0609L	6" (150MM)	.090"	DM 7/8"-5/8"
ABC0709L	7" (180MM)	.090"	DM 7/8"-5/8"

DRY | WET | G | C



Pro Segmented Turbo

- Side segments protect the core from undercut wear and segment loss.
- Ideal for sculpting and making curved cuts when fitted with 5/8-11 flush mounted flange.
- Often used to cut very abrasive materials.

Code	ø	↔	Arbor
PS450008K	4 1/2" (115mm)	.085"	7/8"-5/8"
PS0508K	5" (125mm)	.100"	7/8"-5/8"
PS0708L	7" (180mm)	.120"	DM 7/8"-5/8"

DRY | WET | T | P



Porcelain Turbo

- Reinforced core for extra body protection.
- Turbo blade designed specifically to cut porcelain tile, on hand-held machines.
- 1.2mm thin blade and a very narrow turbo edge design allows for smooth and chip-free cutting.

Code	ø	↔	Arbor
PR0404K	4" (100mm)	.0475"	7/8"-5/8"
PR450004K	4 1/2" (115mm)	.0475"	7/8"-5/8"
PR0504K	5" (125mm)	.0475"	7/8"-5/8"

WET | M



EP Super Premium

- Fast and very smooth cutting chip free.
- Fast working because of the fully exposed diamond grit.
- Our best selling blade for marble.

Code	ø	↔
EPP0404	4" (100mm)	.042"
EPP450004	4 1/2" (115mm)	.042"
EPP0504	5" (125mm)	.042"
EPP0705	7" (180mm)	.057"
EPP0805	8" (200mm)	.057"

Natural & Engineered Stone

WET | G



K2 Silent

- Fastest, smoothest and most efficient cut.
- The K2 blade has outperformed all other arranged segmented blades in head to head tests.
- The high quality segment makes the K2 one of the best granite bridge saw blades on the market.

Code	Ø	↔	Arbor
GR12120	12" (300mm)	.125"	60-50mm
GR1412P	14" (350mm)	.125"	60-50mm
GR1612P	16" (400mm)	.135"	60-50mm
GR1812P	18" (450mm)	.135"	60-50mm
GR2012P	20" (200mm)	.157"	60-50mm

WET | DEKTON



DIATEX Dekton® Blade

- The DIATEX Dekton® Cutting Blade has been engineered to cut Dekton® and similar ceramic-based slabs.
- These ultra-compact slabs are gaining in popularity as solid surfaces, facades, siding and flooring, but are notoriously difficult cut.
- 60mm Center Hole.

Standard Core

Code	Ø	↔	Arbor
DEKN1411Q	14" (350mm)	.110"	60mm
DEKN1612Q	16" (400mm)	.125"	60mm
DEKN1814Q	18" (450mm)	.140"	60mm

Silent Core

Code	Ø	↔	Arbor
DEKS1411Q	14" (350mm)	.110"	60mm
DEKS1612Q	16" (400mm)	.125"	60mm
DEKS1814Q	18" (450mm)	.140"	60mm

WET | T | P



J-Slot

- Specifically designed to maintain consistent tension throughout cut cycle.
- Vibration dampening.
- Cuts true, straight, and chip free.
- Thin segment thickness to maximize speed.

Code	Ø	↔	Arbor
PTJ1206Q	12" (300mm)	.060"	60mm
PTJ1411Q	14" (350mm)	.110"	60mm
PTJ1612Q	16" (400mm)	.120"	60mm
PTJ1813Q	18" (450mm)	.133"	60mm

DRY | T | M | G | GL



Tile Blade Dry

- This blade is designed for dry cutting of ceramic and natural stone tile.
- Allows tile contractors to perform dry cutting on the job site.
- Clean cut and no chipping.

Code	Ø	↔	Arbor
TB0406K	4" (100mm)	.060"	7/8"-5/8"

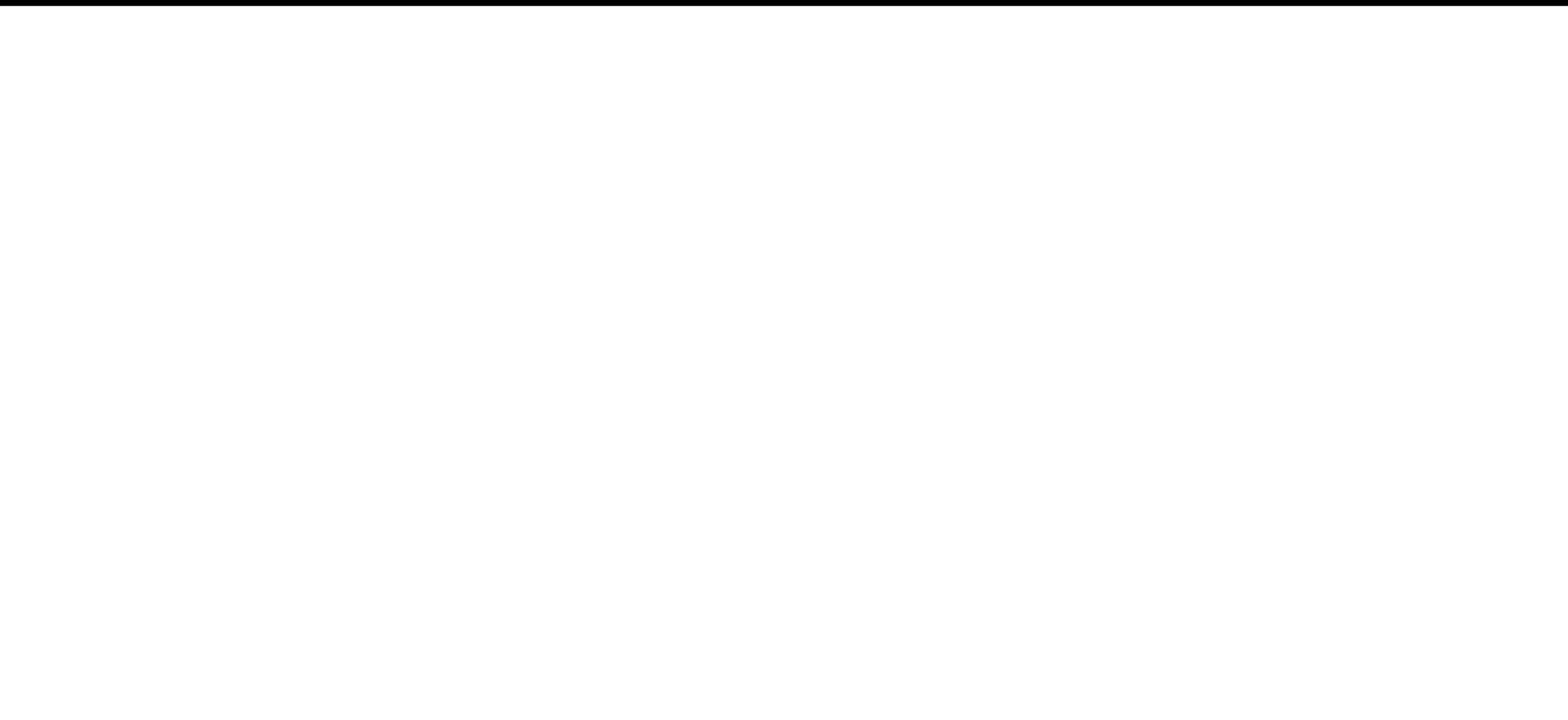
WET | T | M | G | GL



Tile Blade Premium

- This tile blade has a 7mm high sintered rim, that cuts smooth and chip-free.
- Ideal for all natural stone tiles.
- Can also be used on glass.

Code	Ø	↔	Arbor
TBP0706J	7" (180mm)	.060"	5/8"
TBP0806J	8" (200mm)	.060"	5/8"
TBP0906J	9" (230mm)	.060"	5/8"
TBP1006J	10" (250mm)	.060"	5/8"
TBP1208N	12" (300mm)	.080"	1"
TBP1408N	14" (350mm)	.080"	1"





04 Industrial & Manufacturing

Assembly lines and manufacturing processes require high-precision, custom-designed diamond tooling solutions. Our team of engineers, working in our local manufacturing facility, conceptualize and build industry-specific diamond electroplated and diamond vacuum brazed tooling to suit nearly any application.



Diamond Vacuum Brazing Services

What is Vacuum Brazing?

Vacuum brazing is a single layer of fully exposed diamond grit fused with nickel at extremely high temperatures. Vacuum brazed tools have a very high concentration of diamond grit making it very direct and aggressive. These tools remove material with little effort.

Endless Applications

Vacuum brazed products have an expansive list of possible applications. Our products are used in a wide variety of industries from metal working, composites and automotive sectors, just to name a few.

A Multitude of Materials

Our diamond vacuum brazed tools have been put to the test on many different materials.

Metals

- Carbon steel
- Stainless steel
- Ductile iron
- Cast iron
- Hard friction alloys

Stones

- Marble
- Travertine
- Limestone
- Engineered stone

Other

- Precast concrete
- Wood

Composites

- Plastic
- FRP
- PVC
- Ceramics



Available Grits
16-400



Max Diameter
12" (300mm)



Min Thickness
.042"-.063"
small tool - large tool



Complex Shapes

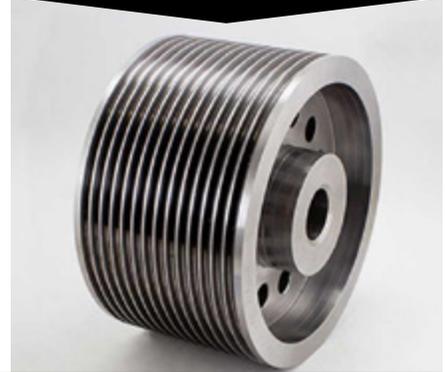


Use Wet or Dry

**Locally Manufactured
Since 2003**

1. Vacuum Brazed Coating Service

We Vacuum Braze a wide variety of complex wheels and steels forms for a vast array of industries and applications. For Vacuum Brazed coating services simply send us your steel blanks or preforms and we will vacuum braze the tool to your specifications.



2. Vacuum Brazed Refurbishing Service

Replacing complex wheels or very large cores can be costly and have long lead times. Often it's far less expensive to have old wheels stripped and re-coated. Our clients save an average of 25% with our stripping and re-coating services greatly extending the life of complex and expensive specialized tools.





Diamond & Borazon Electroplating Services

What is Electroplating?

Diamond electroplated tools use hydrolysis to tack diamonds to the tool surface and strengthen the hold with nickel. The result is a highly concentrated single layer of exposed diamond on the working surface, making these tools direct, aggressive and ideal for cutting and grinding applications.

A Multitude of Materials

Diamond electroplated tooling is an effective solution for grinding and cutting a wide variety of materials.

Industry Experience

With an expansive materials list, our diamond electroplated tools are used in an ever wider variety of industries and sectors.

Metals

- Stainless steel
- Ductile iron
- Cast iron

Stones

- Marble
- Travertine
- Limestone

Composites

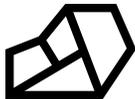
- Plastic
- FRP
- PVC
- Ceramics

Other

- Terrazzo
- Precast concrete



Diamond Grits
16-600



Borazon Grits
60-120



Max Diameter
32" (800mm)



Large Wheels



Use Wet or Dry

**Locally Manufactured
Since 1995**

1. Electroplating Service

We offer diamond and Borazon electroplating services for a wide variety of industries and applications. Send us your steel blanks or forms and we'll electroplate the tool to your specifications.



2. Electroplating Refurbishing Service

Refurbished used Diamond or Borazon Electroplated tools and save up to 25% on the replacement cost. Used and damaged tools are stripped, re-machined and electroplated to your specifications.



Vacuum Brazed Discs

Versatility

Our Vacuum Brazed Discs are extremely versatile. They are used in a wide selection of industries from stone sculpting, marine applications, composites manufacturing and industrial uses.

They have a full exposed diamond surface that is direct and aggressive.



Full Face Disc

- Amazing 2 in 1 tool!
- Cuts and grinds for maximum efficiency and versatility.
- 8 counter sunk holes for reversing the flange to use both sides of the tool.

DRY | WET | M | P | C | F | I

Code	ø	Grit
FF4500050A	4 1/2" (115mm)	50
FF05050A	5" (125mm)	50
FF07050A	7" (180mm)	50



Sec Disc

- The solid stainless steel backing makes this tool light but strong for those tough applications.
- Ideal for dry grinding.

DRY | WET | M | P | F | I

Code	ø	Grit
SEC4500016A	4 1/2" (115mm)	16
SEC4500030A	4 1/2" (115mm)	30
SEC4500040A	4 1/2" (115mm)	40
SEC4500100A	4 1/2" (115mm)	100
SEC07016A	7" (180mm)	16
SEC07030A	7" (180mm)	30
SEC07040A	7" (180mm)	40
SEC07100A	7" (180mm)	100



Sword Disc

- This solid metal vacuum brazed tool works great to do heavy grinding, including grooving.
- 8 counter sunk holes for reversing the flange to use both sides of the tool.

DRY | WET | M | P | F | I | C

Code	ø	Grit
SD05030A	5" (125mm)	30
SD05040A	5" (125mm)	40
SD05100A	5" (125mm)	100



Vacuum Brazed Cupwheel

- This vacuum brazed cupwheel works great for chamfering, or heavy grinding jobs.
- The fully exposed diamond allows you to remove material with little effort.
- Ideal for dry applications where wet is not an option.

DRY | WET | M | P | F | I

4" (100mm)	4-1/2" (115mm)	5" (125mm)
TFC040CA	TFC04500CA	TFC05CA

Vacuum Brazed Blades



VB Super Premium

- Ultimate performance on extremely abrasive materials.
- Advanced bond outperforms any other blade when cutting composite material.
- VB blades are 40/50 grit standard. Other grits are available.

DRY WET M P F I			
Code	ø	↔	Arbor
VBP0406K	4" (100mm)	.060"	7/8"-5/8"
VBP450006K	4 1/2" (115mm)	.060"	7/8"-5/8"
VBP0506K	5" (125mm)	.060"	7/8"-5/8"



VB Slotted

- The slots aid in evacuating material faster while providing a cooling effect for the blade.
- VB blades are 40/50 grit standard. Other grits are available.
- Bore sizes are based on standard sizes. Other bore sizes are available.

DRY WET M P F I			
Code	ø	↔	Arbor
VBS0406K	4" (100mm)	.060"	7/8"-5/8"
VBS450006K	4 1/2" (115mm)	.060"	7/8"-5/8"
VBS0506K	5" (125mm)	.060"	7/8"-5/8"



VB Continuous Rim

- Continuous rim is perfect for smooth, chip-free cutting of soft stones.
- VB blades are 40/50 grit standard. Other grits are available.
- Bore sizes are based on standard sizes. Other bore sizes are available.

DRY WET M P F I			
Code	ø	↔	Arbor
VBC0206K	2" (50mm)	.060"	7/8"-5/8"
VBC0306K	3" (75mm)	.060"	7/8"-5/8"
VBC0406K	4" (100mm)	.060"	7/8"-5/8"
VBC450006K	4 1/2" (115mm)	.060"	7/8"-5/8"
VBC0506K	5" (125mm)	.060"	7/8"-5/8"

Locally Manufactured Since 2003

15 Years of Innovation

We take great pride in being ahead of the curve and setting industry trends. Opening up our vacuum brazing department for local manufacturing was ahead of it's time.

We have since perfected the process and are very proud to offer full vacuum brazed capabilities right here in North America.

Our department remains on the cutting edge of technology by developing new processes and formulations to produce some of the most cutting edge tooling.



Industrial & Manufacturing

Electroplated Blades

Our electroplating cutting blades are ideal for use on fiberglass, FRP, plastics and composites. Electroplated blades provide freer cutting with a faster removal rate. There is less thermal damage and while holding its form with little distressing. Electroplated tools can be used for wet or dry applications.

Custom Options

We offer custom options on our electroplated cutting blades: spokes, custom wrap dimensions and special thicknesses.



WET|P|F|L|M



EP Continuous Rim

- Perfect for smooth and precise cutting
- Straight and aggressive cuts.
- Ideal for carbide, composites and plastics where build up is not an issue.

* Spokes available on special order

Code	ø	↔	Code	ø	↔
EPC0204	2" (50mm)	.042"	EPC1408	14" (350mm)	.087"
EPC0304	3" (75mm)	.042"	EPC1812	18" (450mm)	.120"
EPC0404	4" (100mm)	.042"	EPC1912	19" (483mm)	.125"
EPC450004	4 1/2" (115mm)	.042"	EPC2013	20" (500mm)	.134"
EPC0504	5" (125mm)	.042"	EPC2213	22" (550mm)	.134"
EPC0605	6" (150mm)	.055"	EPC2413	24" (600mm)	.134"
EPC0705	7" (180mm)	.057"	EPC2613	26" (650mm)	.134"
EPC0808	8" (200mm)	.087"	EPC2818	28" (700mm)	.187"
EPC1008	10" (250mm)	.087"	EPC3018	30" (750mm)	.187"
EPC1208	12" (300mm)	.087"	EPC3218	32" (800mm)	.187"

WET|P|F|L|M



EP Super Premium

- Ultimate performance with thicker diamond wrap.
- Advanced bond outperforms other blades when cutting abrasive materials.

Code	ø	↔
EPP0404	4" (100mm)	.042"
EPP450004	4 1/2" (115mm)	.042"
EPP0504	5" (125mm)	.042"
EPP0705	7" (180mm)	.057"
EPP0805	8" (200mm)	.057"

WET|P|F|L|M



EP Cloverleaf

- Specially designed for curved cutting.
- This blade is manufactured with large diamond coverage to provide body protection.

Code	ø	↔
EPV0304	3" (75mm)	.042"
EPV0404	4" (100mm)	.042"
EPV450004	4 1/2" (115mm)	.042"
EPV0504	5" (125mm)	.057"
EPV0705	7" (180mm)	.057"

WET | P | F | L | M



EP Slotted

- Slots aid in evacuating material faster while providing a cooling effect.
- Spokes available on special order.

Code	ø	↔	Code	ø	↔
EPS0404	4" (100mm)	.042"	EPS1611	16" (400mm)	.118"
EPS450005	4 1/2" (115mm)	.042"	EPS1812	18" (450mm)	.120"
EPS0504	5" (125mm)	.042"	EPS2013	20" (500mm)	.134"
EPS0605	6" (150mm)	.055"	EPS2213	22" (550mm)	.134"
EPS0705	7" (180mm)	.057"	EPS2413	24" (600mm)	.134"
EPS0808	8" (200mm)	.087"	EPS2613	26" (650mm)	.134"
EPS1008	10" (250mm)	.087"	EPS2818	28" (700mm)	.187"
EPS1208	12" (300mm)	.087"	EPS3018	30" (750mm)	.187"
EPS1408	14" (350mm)	.087"	EPS3218	32" (800mm)	.187"

EP Advantage Blades

WET | P | F | L | M



EP Advantage Super Premium

- Economy version of the super premium design.
- Aggressive pattern.
- Designed for straight and curved cutting.
- Large diamond plated rim.

Code	ø	↔	Arbor
EPPB0404K	4" (100mm)	.042"	7/8"-5/8"
EPPB0504K	5" (125mm)	.042"	7/8"-5/8"

WET | P | F | L | M



EP Advantage Slotted

- Economy version of EP Slotted.
- Slots help cool cutting and evacuate material quickly.
- More aggressive design.

Code	ø	↔	Arbor
EPSB0404K	4" (100mm)	.042"	7/8"-5/8"
EPSB450004K	4 1/2" (115mm)	.042"	7/8"-5/8"
EPSB0504K	5" (125mm)	.042"	7/8"-5/8"

WET | P | F | L | M



EP Advantage Continuous Rim

- Economy version of the EP Continuous Rim.
- Continuous rim is perfect for straight and precise cutting.
- Ideal for fiberglass, FRP, composites and plastics.

Code	ø	↔	Arbor
EPCB45004K	4 1/2" (115mm)	.042"	7/8"-5/8"

Electroplated Hole Saws

Used On Composite Materials

Ideal hole saw for all composite applications. The electroplated rim cuts aggressively, but produces a very smooth finish.

Various diameters

We offer a very wide range of diameters to suit nearly any application. Adapters are also available to accommodate different machines.

Locally manufactured since 1995

Another heritage tool that Diamond Productions has been producing for over two decades.

WET|P|F|L|M



EP Hole Saw

- Works fast and clean.
- Ideal for cutting various materials such as plastics, composites, fiberglass and FRP.
- 1/2-20 thread, up to 1" Diameter.
- 5/8-18 thread, 1 1/4" Diameter and higher.

Codes	Ø	Codes	Ø	Codes	Ø	Codes	Ø
EHS0500D	1/2"	EHS1187D	1 3/16"	EHS2250C	2 1/4"	EHS3500C	3 1/2"
EHS0562D	9/16"	EHS1250C	1 1/4"	EHS2375C	2 3/8"	EHS3570C	3 3/4"
EHS0625D	5/8"	EHS1312C	1 5/16"	EHS2500C	2 1/2"	EHS3625C	3 5/8"
EHS0750D	3/4"	EHS1375C	1 3/8"	EHS2625C	2 5/8"	EHS4000C	4"
EHS0787D	25/32"	EHS1500C	1 1/2"	EHS2750C	2 3/4"	EHS4250C	4 1/4"
EHS0812D	13/16"	EHS1625C	1 5/8"	EHS2875C	2 7/8"	EHS4500C	4 1/2"
EHS0875D	7/8"	EHS1750C	1 3/4"	EHS3000C	3"	EHS4750C	4 3/4"
EHS0937D	15/16"	EHS1875C	1 7/8"	EHS3125C	3 1/8"	EHS5000C	5"
EHS1000D	1"	EHS2000C	2"	EHS3250C	3 1/4"	EHS5500C	5 1/2"
EHS1125D	1 1/8"	EHS2125C	2 1/8"	EHS3375C	3 3/8"	EHS6000C	6"

Locally Manufactured Since 1995

Over 20 Years of Quality

Take advantage of shorter lead times, strict quality control, lower minimums and easy communication with our local diamond electroplating facility.

Recent equipment and capacity upgrades gives us the edge on producing high-quality, competitively priced diamond electroplated products made to your exact specifications.



Electroplated Discs

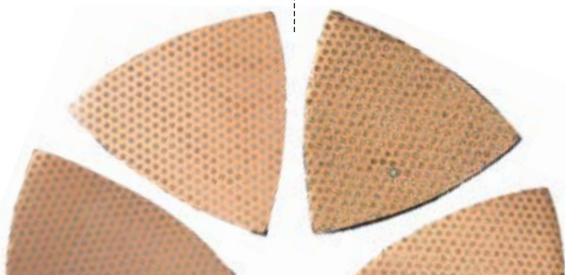
Extremely Direct & Aggressive

Like all electroplated tools, the Excaliburs are extremely direct and aggressive because the diamond grit is full exposed. The shape of the diamond grit used in the electroplating process is oblong and sharp which tears through materials as opposed to a more progressive grinding action.

Multiple Shapes & Large Diameters

One of the greatest advantages of the Excalibur series is that they are made on sheets, which can be cut into any shape and can even be cut in very large diameters.

We have also manufactured the Excalibur product in various patterns and designs.



Endless Applications

Composites and plastics is where this product has shown to be a true performance tool. Many of our clients use it in the boating and automotive industries. The Excaliburs handle soft materials extremely well.

The Excaliburs have also been used on all types of natural stone and engineered stone.

It's aggressiveness has also been useful in concrete and terrazzo edging as well as concrete countertops.

Locally manufactured since 1995

We take great pride in the fact that we've been manufacturing the Excalibur flexible and rigid series for 20 years.

Over the two decades of manufacturing, we have perfected one of the most diversely used tools that we sell here at Diamond Productions.



Excalibur Flexible

- Often used like sandpaper.
- Hook & loop backed quick load and release.
- 5/8" center hole.
- Can be cut to any shape!
- Flexible backing ideal for complex shapes.



Excalibur Rigid

- Rigid tool ideal for flat grinding
- Hook & loop backed quick load and release.
- 5/8" center hole.
- Can be cut to any shape!

DRY WET M G Z P C E F GL			
3" (75mm)	4" (100mm)	5" (125mm)	7" (180mm)
EXF030040	EXF040040	EXF050040	EXF070040
EXF030060	EXF040060	EXF050060	EXF070060
EXF030120	EXF040120	EXF050120	EXF070120
EXF030220	EXF040220	EXF050220	EXF070220
EXF030400	EXF040400	EXF050400	EXF070400
EXF030600	EXF040600	EXF050600	EXF070600

DRY WET M G Z P C E F GL			
3" (75mm)	4" (100mm)	5" (125mm)	7" (180mm)
EXR030040	EXR040040	EXR050040	EXR070040
EXR030060	EXR040060	EXR050060	EXR070060
EXR030120	EXR040120	EXR050120	EXR070120
EXR030220	EXR040220	EXR050220	EXR070220
EXR030400	EXR040400	EXR050400	EXR070400
EXR030600	EXR040600	EXR050600	EXR070600

Our Local Services

Innovation. Invention. Design.

Throughout our history, we been at the forefront of the innovation, invention and design of diamond tools. Our decades of industry experience coupled with our ongoing research and development program has allowed us to provide our customers with the most technologically advanced solutions for all their standard and custom tooling needs.



Locally Manufactured Since 2003

Vacuum Brazed Coating Service

We Vacuum Braze a wide variety of complex wheels and steels forms for a vast array of industries and applications. For Vacuum Brazed coating services simply send us your steel blanks or preforms and we will vacuum braze the tool to your specifications.

[Learn more on page 58](#)



Locally Manufactured Since 2003

Vacuum Brazed Refurbishing Service

Replacing complex wheels or very large cores can be costly and have long lead times. Often it's far less expensive to have old wheels stripped and re-coated. Our clients save an average of 25% with our stripping and re-coating services greatly extending the life of complex and expensive specialized tools.

[Learn more on page 58](#)



Locally Manufactured Since 1995

Diamond & Borazon Electroplating Service

We offer diamond and Borazon electroplating services for a wide variety of industries and applications. Send us your steel blanks or forms and we'll electroplate the tool to your specifications.

[Learn more on page 59](#)



Locally Manufactured Since 1995

Electroplating Refurbishing Service

Refurbished used Diamond or Borazon Electroplated tools and save up to 25% on the replacement cost. Used and damaged tools are stripped, re-machined and electroplated to your specifications.

[Learn more on page 59](#)



Our Local Talent

Segmenting Service

Benefit from huge savings and shorter lead times when you re-segment used or damaged wheels. This service is ideal for large segmented drums and profiles.



Our Local Talent

Steel Machining Services

We are proud to operate a complete steel machine shop complete with both CNC and manual machines. Our highly experienced machinists excel at fabricating precise steel parts and tools.



Our Local Talent

Custom Tool Design Services

Our team of engineers will help conceptualize your tool designs with our technical drawing and 3D rendering services. Push your idea even further with working prototypes to test and validate the design.



Create Added Value

Tool Branding Services

Stand out in your market with our Branding Services. Build brand recognition with custom packaging, stamped resins, engraved tooling and custom colors. Create a lasting impression with distinctive tooling.

Learn more on page 23



Create Added Value

Proprietary Tooling Services

Elevate your brand and enhance your reputation with custom, high-quality proprietary diamond tooling. We have designed and developed proprietary diamond tooling programs for Original Equipment Manufacturers (OEM's) and large distributors for over 50 years.

Learn more on page 23



Glossary

A

abrasive - any material or substance used for grinding, polishing, etc., such as diamond in various grit sizes.

aggregate - any of various loose, particulate materials, such as sand, coral, gravel, river rocks, or pebbles, added to a cementing agent to make concrete.

arbor - axis that holds, or supports a rotating cutting tool or grinding wheel.

B

bevel - a surface that does not form a right angle with adjacent surfaces.

bond - a substrate that binds, fastens, confines, or holds together. The bond determines the rate at which the substrate is worn down to expose new layers of diamond. The bond is the prime factor when selecting a tool based on a materials' hardness and/or abrasiveness.

bore - the inside diameter of a hole, such as a bushing or bearing.

bushing - a replaceable thin tube or ring, usually of bronze, mounted on a blade to reduce arbor size.

C

carbide - a hard material made of compacted binary compounds of carbon and heavy metals, used to make tools that cut metal and other hard materials.

cement - A building material made by grinding calcined limestone and clay to a fine powder, which can be mixed with water and poured to set as a solid mass or used as an ingredient in making mortar or concrete.

chamfer - a cut that is made at a 45° angle to the adjacent principal face.

composite - a complex material, such as fiberglass, in which two or more distinct, structurally complementary substances combine to produce structural or functional properties not present in any individual component.

concrete - an artificial, stone like material used for various structural purposes, made by mixing cement and various aggregates, such as sand, pebbles, gravel, or shale, with water and allowing the mixture to harden.

countersink - a tool that cuts a sloped depression at the top of a hole to permit a screw head or other object to rest flush with the surface.

CNC, computer numerical control - a processor based machine that permits the automation of cutting, grinding, shaping and polishing on stone.

D

diamond - crystalline form of carbon produced under extreme pressure at elevated temperatures. The hardest natural substance.

E

earth magnet - see Magnet.

electroplating - the process of coating a surface of a conducting material with diamond particles. This is a nickel bond.

engineered stone - Engineered stone is a composite material comprising rock and resin. It is used primarily for kitchen countertops.

F

face - flat surface of a slab.

fiberglass - a material consisting of extremely fine filaments of glass that are combined in yarn and woven into fabrics, used in masses as a thermal and acoustical insulator, or embedded in various resins to make boat hulls, fishing rods, and the like.

G

glass - a hard, brittle, noncrystalline, more or less transparent substance produced by fusion, usually consisting of mutually dissolved silica and silicates that also contain soda and lime, as in the ordinary variety used for windows and bottles.

grain - the arrangement or direction of the pattern in a stone.

granite - a common, coarse-grained, dark-colored, hard igneous rock consisting chiefly of quartz, orthoclase or microcline, and mica, used in monuments and countertops.

grit - various sized abrasive particles or granules, such as diamond.

H

hybrid - a specially formulated diamond pad that is a mix of resin and metal or ceramic. It is close to a metal in grinding ability but with a much more subtle scratch pattern.

L

limestone - a sedimentary rock consisting predominantly of calcium carbonate, varieties of which are formed from the skeletons of marine microorganisms and coral: used as a building stone and in the manufacture of lime.

lippage - generally refers to two pieces of material joined together but one edge is higher or lower than the adjoining material, causing unevenness on a flat surface.

M

magnet - An object that is surrounded by a magnetic field and that has the property, either natural or induced, of attracting iron or steel.

mandrel - a shaft or shank which is inserted into a work piece to hold it during machining.

marble - metamorphosed limestone, consisting chiefly of recrystallized calcite or dolomite, capable of taking a high polish, occurring in a wide range of colors and variegations and used in sculpture and architecture.

P

plastic - any of a group of synthetic or natural organic materials that may be shaped when soft and then hardened, including many types of resins, resinoids, polymers, cellulose derivatives, casein materials, and proteins.

PCD, polycrystalline diamonds - offer hardness, strength and abrasion resistance of natural diamond without its susceptibility to fracturing. It is manufactured using man-made diamond particles that are grown together in a high pressure, high temperature process. At the same time, these particles are integrally bonded to a cemented tungsten carbide substrate for mechanical strength and impact resistance.

Q

quartz - a very hard mineral composed of silica found commonly in granite.

R

resin - a viscous liquid capable of hardening composed of a wide variety of synthetic substances.

resin transfer - see Transfer

S

scratch pattern - The pattern etched into a floor by a diamond tool. The more aggressive the tool, the more evident the scratch pattern. The more even a scratch pattern is, the easier it is to progress through various grits to grind and polish a floor.

segment - a strip, piece or wedge of sintered material fixed to a base or body. The segments are composed of diamond crystals and powdered metal which form the bond, or 'matrix',

silicate - any of the largest group of mineral compounds, as quartz, beryl, garnet, feldspar, mica, and various kinds of clay, consisting of SiO₂ or SiO₄ groupings and one or more metallic ions, with some forms containing hydrogen. Silicates constitute well over 90 percent of the rock-forming minerals of the earth's crust.

sintering - to form a coherent mass by heating without melting. The mass includes evenly distributed powdered metal and diamond in various grits.

slab - a lengthwise cut of a quarry block of stone commonly 20mm and 30mm in thickness.

slurry - a thin mixture of a liquid, especially water, and any of several finely divided substances, such as cement, plaster of Paris, or clay particles.

swarf - an accumulation of fine particles of metal or abrasive cut or ground from work by a machine tool or grinder.

swirl - The Spirograph etching or shadow that can result from using a machine with imperfect or low-quality polishing, resin, or buffing pads.

synthetic diamond - a term to describe diamond crystals manufactured under similar conditions to that of natural diamonds.

T

transfer - When regular resin pads are improperly formulated for heat tolerance, the resin in the pad melts onto and is forced into the floor. This can cause discoloration and leave imperfections in a polished concrete floor. This can also occur with the plastic in post resin pads.

terrazzo - a mixture of chips or pieces of stone and cement and is polished when in place.

travertine - a form of limestone porous in nature due to deposits from ground or surface waters.

V

vacuum brazing - a material joining technique performed inside a vacuum chamber at temperatures ranging between 1000°C to 2500°C

W

water channels - grooves created by raised segments designed to evacuate swarf and water.

Conversion Charts

Inches Fraction				
1/8"	=	0.125"	=	3.18mm
1/4"	=	0.25"	=	6.35mm
3/8"	=	0.375"	=	9.53mm
1/2"	=	0.5"	=	12.7mm
5/8"	=	0.625"	=	15.88mm
3/4"	=	0.75"	=	19.05mm ≈ 20mm
7/8"	=	0.875"	=	22.23mm
1"	=	1"	=	25.4mm ≈ 25mm
1 1/8"	=	1.125"	=	28.58mm
1 1/4"	=	1.25"	=	31.75mm ≈ 30mm
1 3/8"	=	1.375"	=	34.93mm ≈ 35mm
1 1/2"	=	1.5"	=	38.1mm ≈ 40mm
1 5/8"	=	1.625"	=	41.275mm
1 3/4"	=	1.75"	=	44.45mm ≈ 45mm
1 7/8"	=	1.875"	=	47.63mm
2"	=	2"	=	50.8mm ≈ 50mm
2 1/8"	=	2.125"	=	53.98mm
2 1/4"	=	2.25"	=	57.15mm
2 3/8"	=	2.375"	=	60.33mm ≈ 60mm
2 1/2"	=	2.5"	=	63.5mm
2 5/8"	=	2.625"	=	66.68mm
2 3/4"	=	2.75"	=	69.85mm ≈ 70mm
2 7/8"	=	2.875"	=	73.03mm
3"	=	3"	=	76.2mm
3 1/8"	=	3.125"	=	79.38mm
3 1/4"	=	3.25"	=	82.55mm ≈ 80mm
3 3/8"	=	3.375"	=	85.73mm
3 1/2"	=	3.5"	=	88.9mm
3 5/8"	=	3.625"	=	92.08mm ≈ 90mm
3 3/4"	=	3.75"	=	95.25mm
3 7/8"	=	3.875"	=	98.43mm
4"	=	4"	=	101.6mm ≈ 100mm

Length				
Millimeters	X	0.04	=	Inches
Centimeters	X	0.39	=	Inches
Meters	X	3.28	=	Feet
Meters	X	1.09	=	Yards
Kilometers	X	0.62	=	Miles

Metric Equivalents				
1 Inch	=			2.54 Centimeters
1 Centimeter	=			0.39 Inches
1 Foot	=			0.31 Meters
1 Meter	=			3.28 Feet
1 Yard	=			0.92 Meters
1 Meter	=			1.09 Yards
1 Mile	=			1.6 Kilometers
1 Kilometer	=			0.62 Miles

Weight				
1 Gram	X	0.033	=	Ounces
1 Kilogram	X	2.2	=	Pounds
1 Ounce	X	31	=	Grams
1 Pound	X	0.45	=	Kilograms

Area				
1 Square Centimeter	X	0.155	=	1 Square Inch
1 Square Meter	X	10.7	=	1 Square Foot
1 Square Meter	X	1.2	=	1 Square Yard
1 Square Foot	X	.0929	=	1 Square Meter

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