



PREMIUM
DIAMOND
TOOLS



Anniversary 1995-2025



PREMIUM
DIAMOND
TOOLS

Construction Diamond Tools

**HIGH END
DIAMOND TOOLS
FOR CONSTRUCTION
INDUSTRY**

partner for success

DIATOP SAMA Co.

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DIATOP SAMA Co.

Diamond Blade

Grinding Wheel

Core Drill Bit

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Diatop is the source for your every need.



Anniversary 1995-2025

DIATOP

YOUR PARTNER FOR SUCCESS

There are many companies to deal diamond tools. But we are very confident to introduce ourselves because we always pursue top quality products and service.

The key for your success is to choose Diatop as your reliable manufacturer. You are able to get the right products for your customers from Diatop. You can make your company more profitable and competitive with our high quality products and service.

 is registered trade mark of Diatop Sama Co.

Dear valued customers,

We have reached our 30th anniversary in 2025.

We appreciate for our customers' continuous support to our company.

We established Diatop in 1995 to be top quality manufacturer of diamond products for construction sites to satisfy customers.

We are proud of **customer oriented production system** to apply every kinds of needs with our original production technology.

We have launched our patterned diamond blades in 2023. We have lined our patterned diamond blades as wet concrete blades, wet asphalt blades, wet wall saw blades, hydraulic hand saw blades, ring saw blades, early entry blades, multi combination blades, dry concrete blades and core drill bits.

Now you can enjoy faster cutting and longer life through Diatop Xpress patterned diamond blades.

The excellent performance of our wet professional blades and dry **PMA(Professional Multi Application)** blades are highly recognized in professional market.

Since our first launching of Professional combo blades of Super Combo blades in 2003, we have made addition as NiceCool, PowerCombo and Xpress Rapido.

Most of end users who have used our Professional combo blades are satisfied with it's high performance and efficiency as well as safety.

To do business with high quality products means to get more loyal customers.

We had launched concrete grinding & polishing diamond products and PCD tools for coating removal since 2005.

Please refer our catalogue for surface preparation for more detailed products.

If you look for high quality core drill bits and core segments, please experience the high performance of Xpress core segments as well as Diatop original rooftop segments.

Diatop has been built for speed and good service.

Customer oriented management policy makes the speed and flexibility to respond the request of customers.

We provide the value and the solution for your business success.

We want to be your business partner to take care of your business and to solve your problems.

You have the chance to make successful business with a faithful manufacturer as Diatop.

Sincerely yours.

*Sung hoi Huh / CEO
Diatop Sama Co.*

MANAGEMENT ACTIVITIES OF DIATOP

The vision of Diatop is to provide the world best products and service in diamond tool industry. It is our mission to make our customers to be happy with top quality products and service.



1. Customer policy

- Customer satisfaction.
- Loyal to customer.
- Prompt communication.

2. Product policy

- High standard quality products to maximize utility.
- Wide line of metal bonded products and resin bonded products.
- User friendly new products as patterned diamond blades.

3. Production technology

- Cost effective products.
- Original bond matrix of metal diamond and resin diamond.
- Various sintering process according to different application.
- High skill of silver brazing.
- High quality raw materials for high performance.

4. Quality control

- Total quality control.
- Quality consistency.
- Strict inspection of each process.
- MPA certificate(EN 13236)
- ISO 9001 and 14001 certification

5. Service

- Keep on delivery.
- Prompt after service.
- Good design package to upgrade product and company image.

6. Affiliates

- Korean Tools Industry Cooperative
- Natural Stone Institute
- ISSA (International Sanitary Supply Association)



APPLICATION CODE

Diatop offers wide range of diamond tools with many different specifications.

We have implemented the new CSDA Standard Blade Application Code.

This will assist operations in determination specific applications.

The new code will only affect diamond blades that are 12inch (300mm) diameter or larger.

The new format of CSDA consists of designated letters placed in three(3) positions in the code.

Diatop adds more detail specification of Bond hardness.

Quality levels in front of the code of diameter and segment thickness.

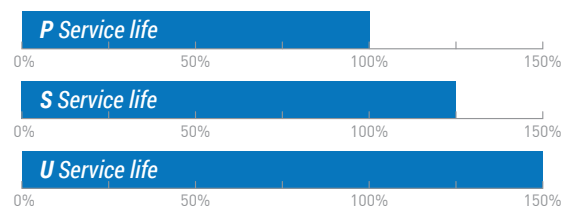
01 Blade Position

1st Wet or Dry	W	Wet only use	D	Wet or dry use					
2nd General Application	C	Cured concrete	G	Green concrete	A	Asphalt			
	O	Asphalt over concrete	B	Block, brick, masonry, refractories	T	Tile, Ceramic, Stone			
	S	Stone / granite	M	Marble	W	Wall saw			
	D	Ductile	U	Universal					
3rd Saw Type	FL	Flat Saws - 13HP or less		M	Tile Saws		HD	Handheld Core Drills	
	FM	Flat Saws - 25HP to 40HP		M	Masonry Saws		FG	Floor Grinders	
	FH	Flat Saws - Over 40HP		D	Core Drills		H	Handheld Saws	
	W	Wall Saws		SL	Stationary Saws		P	Power Hand Saws	
	HS	Hydraulic Hand Saws		ES	Early Entry Saws		RS	Ring saws	
4th Bond Hardness	Wet Blade		VS	Very soft bond	Dry Blade		S	Soft bond	
			MS	Medium soft bond			M	Medium bond	
			MM	Medium bond			H	Hard bond	
			MH	Medium hard bond					
			VH	Very hard bond					

Code reflects the hardness or softness/abrasiveness of the metal bond for which the blade is designed to provide the most overall performance cutting.

5th Quality Level

- P** Premium
- Suitable for general contractors
- S** Supreme
- Diamond tools for professional application
- U** Ultra
- The top-class for the highest demands



This number conveys the overall value of each diamond blade which is a combination of these factors

- Diamond quality
- Diamond concentration

[Three quality levels for each requirements]

02 Blade Dimension

1st two digit Diameter

inch	mm	Code
12	300	30
14	350	35
16	400	40
18	450	45
20	500	50
24	600	60
26	660	66
30	750	75
36	900	90

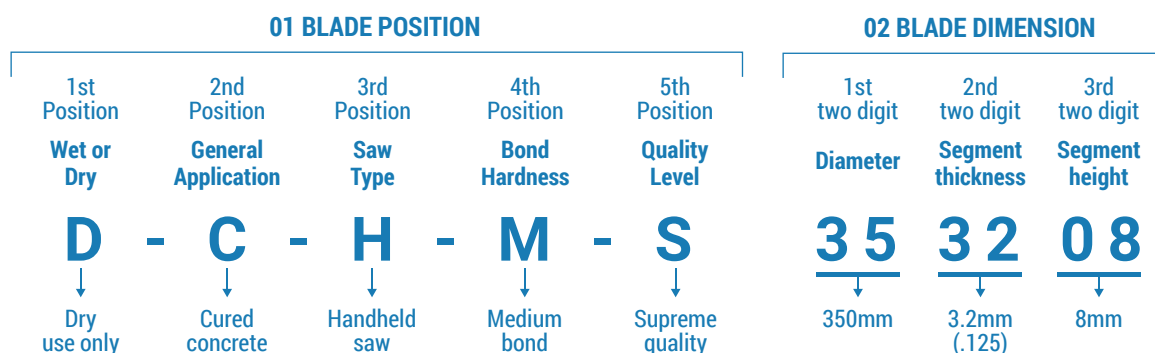
2nd two digit Segment thickness

inch	mm	Code
.110	2.8	28
.125	3.2	32
.141	3.6	36
.155	4.0	40
.165	4.2	42
.187	4.8	48
.250	6.4	64
.315	8.0	80
.375	9.5	95

3rd two digit Segment height

inch	mm	Code
.275	7.0	07
.315	8.0	08
.335	8.5	09
.394	10.0	10
.472	12.0	12
.590	15.0	15
.787	20.0	20

The following example demonstrates how the code will work



Warranty

Diatop Sama warrants all products manufactured by it against defects in workmanship and materials for one year from date of purchase. This warranty does not apply to defects caused by misuses, improper application, negligent abuse, improper installation, altered, involved in non-application, accident or miscellaneously damaged.

Any diamond tools covered under this warranty is limited to replacement or repair of defective products free of charge.

What is concrete Xpress?

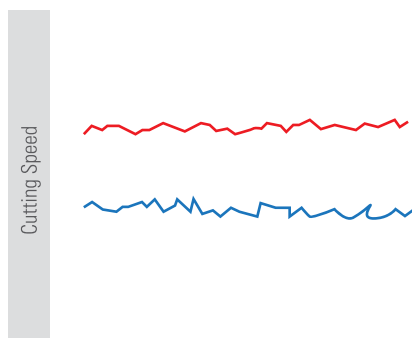
Faster & longer

- Xpress is Diatop brand of patterned diamond technology
- The Xpress technology features optimized distribution of diamonds compared to conventional random mix of diamonds
- The conventional random mixing of diamonds and metal powder have problems of uneven distribution of diamond powder
- Some part of segment has less diamonds, some part of segment is concentrated with lots of diamonds. It makes the blade speed slower and shorter cutting life.
- The Xpress technology makes even load distribution, optimized cooling by equally dispersed diamond position and a constantly high cutting performance.
- You can enjoy the faster speed and longer life

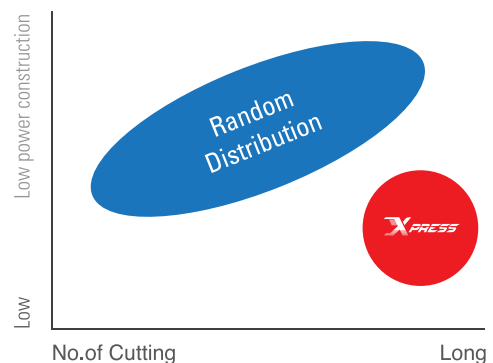


Xpress performance

Fast Cutting Speed



Longer life



● Xpress

● Random distribution

WET BLADE

XPRESS CONCRETE BLADES

XPRESS CONCRETE Ultra blade

/ Wet / Diamond patterned segments / Laser welded / For high HP floor saws over 50HP



- Concrete Xpress blades are made with up to date technology of patterned diamond segments.
- The patterned diamonds perform faster speeds and longer life. You can achieve more longer footage and reduce the operation time
- Concrete Xpress ultra blades are designed for high power saws of 50-72 HP
- Diatop Concrete Xpress blades are double laser welded on both sides for safety.
- We have tested the welding strength by both sides to prevent the segments come off at site.
- Slant segments for undercut protection
- Wide range of operation: Highways, airport runways, city streets, parking lots, bridge decks, floors, walkways, loading docks, lamps
- Laser welded up to 900mm



Quality grade **WCXFU**

Ultra grade with 14mm height for big project with wide applications.
High production of cost per foot.
Protrusion segments for smooth cuttings.



ITEM	D X T (Diameter x Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WCXFU 504014	20 x .157	500 x 4.0	.551	14
WCXFU 504214	20 x .165	500 x 4.2	.551	14
WCXFU 604214	24 x .165	600 x 4.2	.551	14
WCXFU 604814	24 x .187	600 x 4.8	.551	14
WCXFU 664214	26 x .165	660 x 4.2	.551	14
WCXFU 664814	26 x .187	660 x 4.8	.551	14
WCXFU 704814	28 x .187	700 x 4.8	.551	14
WCXFU 754214	30 x .165	750 x 4.2	.551	14
WCXFU 754814	30 x .187	750 x 4.8	.551	14
WCXFU 804814	32 x .187	800 x 4.8	.551	14
WCXFU 904814	36 x .187	900 x 4.8	.551	14

* Standard arbor is 25.4 mm with pin hole. Other arbor hole is as requested.

WET BLADE

XPRESS CONCRETE BLADES



XPRESS CONCRETE Supreme blade

Wet / Patterned diamond segments / Laser welded / Medium HP floor saws of 30 to 50HP

- Diatop Concrete Xpress supreme blades are made with patterned diamond technology.
- It has advantage of fast cutting and longer life compared to the traditional diamond technology.
- Diatop original Concrete Xpress blades for medium HP saws are for 30 HP to 50 HP.
- You can achieve more faster cutting and longer footage than your conventional blades.
- Diatop Concrete Xpress supreme blades are double laser welded for safety to prevent segments come off.
- Our unique torque test equipment for laser welded segments is tested both sides to check strictly.
- TCT inserted to protect the undercut during cutting job.
- Available bond: Very hard, Medium hard, Medium, Medium soft, Soft



Quality grade **WCXFS**

Supreme quality for medium size job site.
It has 12mm segment height for long life.
Slow wave segments for smooth sawing.



ITEM	D X T (Diameter x Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WCXFS 403212	16 x .125	400 x 3.2	.472	12
WCXFS 453612	18 x .141	450 x 3.6	.472	12
WCXFS 503612	20 x .141	500 x 3.6	.472	12
WCXFS 504012	20 x .155	500 x 4.0	.472	12
WCXFS 604212	24 x .165	600 x 4.2	.472	12
WCXFS 604812	24 x .187	600 x 4.8	.472	12
WCXFS 654812	26 x .187	650 x 4.8	.472	12
WCXFS 704812	28 x .187	700 x 4.8	.472	12
WCXFS 754812	30 x .187	750 x 4.8	.472	12
WCXFS 804812	32 x .187	800 x 4.8	.472	12
WCXFS 904812	36 x .187	900 x 4.8	.472	12

* Standard arbor is 25.4 mm with pin hole. Other arbor hole is as requested.

WET BLADE

XPRESS CONCRETE BLADES



XPRESS CONCRETE Premium blade

Wet / Patterned diamond / Wet / Laser welded / Low HP saws

- Diatop Concrete Xpress premium blades are manufactured with high technology of diamond placement.
- Diatop original bond and the layout of diamond placements make the blades more faster and longer in operation.
- The Xpress premium Concrete blades are for 20 HP to 30 HP.
- You can save cutting time and get more footage.
- All of Diatop blades are double laser welded to prevent segments come off.
- We test the welding strength on both sides of segments for your safety.
- Please enjoy your comfortable sawing job with Diatop Xpres Concrete premium blades.
- Available bond: Very hard, Hard, Medium, Medium soft, Soft



Quality grade **WCXFP**

Premium grade for small to medium size job site. It has 10mm segment height. Low cost with high efficiency



ITEM	D X T (Diameter x Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WCXFP 353210	14 x .125	350 x 3.2	.394	10
WCXFP 403210	16 x .125	400 x 3.2	.394	10
WCXFP 403610	16 x .141	400 x 3.6	.394	10
WCXFP 453210	18 x .125	450 x 3.2	.394	10
WCXFP 453610	18 x .141	450 x 3.6	.394	10
WCXFP 503610	20 x .141	500 x 3.6	.394	10
WCXFP 504010	20 x .155	500 x 4.0	.394	10

* Standard arbor is 25.4 mm with pin hole. Other arbor hole is as requested.

WET BLADE

XPRESS ASPHALT BLADES



XPRESS ASPHALT Supreme blade

Wet / Patterned diamond segments / Laser welded / Medium HP floor saws of 30 to 50 HP

- Diatop Xpress Asphalt Supreme blades are made with patterned diamond technology.
- It has faster cutting speed and longer life compared to the traditional random mixed diamonds.
- It has advantage of even wear of diamond segments due to the sandwich segments.
- Very hard bond with very high volume of WC (Tungsten carbide) for high durability.
- Diatop Xpress Asphalt Supreme blades are laser welded on both sides to prevent segment come off.
- We inspect the welding strength of the laser welded segments on both sides by our special torque tester for safety.
- Slanted segments in every 3 segments to protect the undercut.



Bond available

Aggregate hardness	Bond
Very hard	VS
Medium Hard	MS
Medium	MM
Medium Soft	MH
Soft	VH

ITEM	D X T (Diameter x Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WAXFS 403212	16 x .125	400 x 3.2	.472	12
WAXFS 453612	18 x .141	450 x 3.6	.472	12
WAXFS 503612	20 x .141	500 x 3.6	.472	12
WAXFS 504012	20 x .155	500 x 4.0	.472	12
WAXFS 604212	24 x .165	600 x 4.2	.472	12
WAXFS 604812	24 x .187	600 x 4.8	.472	12
WAXFS 654812	26 x .187	650 x 4.8	.472	12
WAXFS 704812	28 x .187	700 x 4.8	.472	12
WAXFS 754812	30 x .187	750 x 4.8	.472	12

* Standard arbor is 25.4 mm with pin hole. Other arbor hole is as requested.

WET BLADE

XPRESS ASPHALT BLADES



XPRESS ASPHALT Premium blade

Wet / Patterned diamond segments / Laser welded / Low HP floor saws of 20 or less

- Diatop Xpress Asphalt Premium blades are made with patterned diamond technology.
- It has faster cutting speed and longer life compared to the traditional random mixed diamonds.
- It has advantage of even wear of diamond segments due to the sandwich segments.
- Very hard bond with very high volume of WC (Tungsten carbide) for high durability.
- Diatop Xpress Asphalt Supreme blades are laser welded on both sides to prevent from segment come off.
- We inspect the welding strength of the laser welded segments on both sides by our special torque tester for safety.

Bond available

Aggregate hardness	Bond
Very hard	VS
Medium Hard	MS
Medium	MM
Medium Soft	MH
Soft	VH



ITEM	D X T (Diameter x Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WAXFP 353210	14 x .125	350 x 3.2	.394	10
WAXFP 403210	16 x .125	400 x 3.2	.394	10
WAXFP 403610	16 x .141	400 x 3.6	.394	10
WAXFP 453210	18 x .125	450 x 3.2	.394	10
WAXFP 453610	18 x .141	450 x 3.6	.394	10
WAXFP 504010	20 x .155	500 x 4.0	.394	10
WAXFP 604210	24 x .165	600 x 4.2	.394	10

* Standard arbor is 25.4 mm with pin hole. Other arbor hole is as requested.

WET BLADE

WET WALL SAW BLADES



Wall saw blades

Patterned diamond segments / Wet / Laser welded / For wall saw

- Diatop Xpress blade for wall saw is designed for hydraulic mounted wall saws.
- Fast and accurate cuts on walls by patterned diamond segments.
- Slope segments for easy cutting on wall sawing.
- Diatop Xpress wall saw blades are manufactured with sandwich segment for even cutting for longer life.
- Strict welding test for both sides of segments to prevent segments come off.
- Available bond: Hard, Medium, Soft



ITEM	D X T (Diameter x Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WSX 503612	20 x .141	500 x 3.6	.472	12
WSX 603612	24 x .141	600 x 3.6	.472	12
WSX 663612	26 x .141	660 x 3.6	.472	12
WSX 753812	30 x .150	750 x 3.8	.472	12
WSX 804812	32 x .187	800 x 4.8	.472	12
WSX 806412	32 x .250	800 x 6.4	.472	12
WSX 904812	36 x .187	900 x 4.8	.472	12

* Bore hole : 25.4mm

* Pin holes are upon requested

WET BLADE

WET CURED CONCRETE BLADES

HS


Hydraulic hand saw blades

Patterned diamond segments / Wet / Laser welded

- Diatop Xpress blade for wall saw is designed for hydraulic hand saws.
- Fast and accurate cuts on walls by patterned diamond segments.
- Slope segments for easy cutting and wall sawing.
- Diatop Xpress wall saw blades are manufactured with sandwich segment for even cutting for longer life.
- Strict welding test for both sides of segment to prevent segments come off.
- Available bond: Hard, Medium, Soft



ITEM	D X T (Diameter x Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WHX5036	20 x .142	500 x 3.6	.472	12
WHX5236	20 5/8 x .142	524 x 3.6	.472	12
WHX6036	24 x .142	600 x 3.6	.472	12

WET BLADE

XPRESS RING SAW BLADES



Ring saw blades

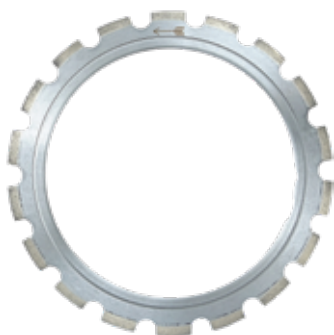
Wet / Laser welded



- Diatop Xpress ring saw blade is manufactured with high tech patterned diamond technology.
- The patterned diamonds can make the cutting speed faster and lifetime longer than ordinary random mixed diamond blades.
- You can enjoy the most fastest cutting speed as well as longer cutting life.
- Especially our new designed Xpress segment of Turbo segment with V notch can easily cut hard concrete wall with fast speed

ITEM	D X T (Diameter x Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
XRUH354010	14 x .157	350 x 4.0	.394	10
XRTH354012	14 x .157	350 x 4.0	.472	12
XRTH374010	14 3/4 x .157	370 x 4.0	.394	10
XRTH404010	16 x .157	400 x 4.0	.394	10
XRTH434010	17 x .157	430 x 4.0	.394	10

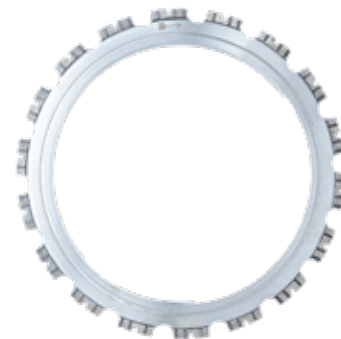
- ※ 1. 16" is for Hycon ring saw.
2. 17" is for Husqvarna ring saw
3. Drive wheel is included



14" Regular shape



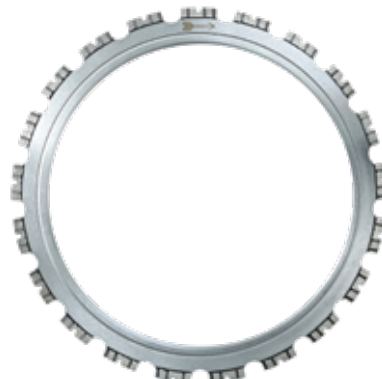
14 1/2" Turbo with
Sharp edge segments



14 1/2" Turbo with V notch
Single groove on the ring



16" Turbo with V notch
Triple grooves on the ring



16 1/2" Turbo with V notch
Single groove on the ring

WET CURED CONCRETE BLADES / ULTRA

Laser welded / For high power flat saws

- **Diatop** wet ultra concrete blades are designed for high power floor saws of 35-72HP.
- Our wet ultra concrete blades are made for pro contractors who want optimum performance.
- Double laser welded on both sides to prevent the segment come off.
- Easy cut of heavy reinforced concrete.
- Slanted segments to prevent the undercut without segment come off.
- Wide range of application : highways, airport runways, city streets, parking lots, bridge decks, floors, walkways, loading docks, lamps.

Quality grade

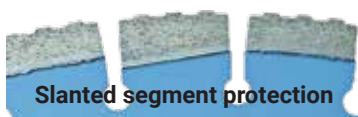
- **WCFHU** Ultra grade for large demanding applications and high production of cost per foot with high segment of 14mm.

Bond selection

Aggregate hardness	Aggregate	Aggregate abrasiveness	Bond Available	
Very hard	Chert, Flint, Quartz, Heavy reinforcing	Low	WCFHVS	WCFMVS
Medium Hard	River gravel, Hard granite, Basalt	Average	WCFHMS	WCFMMS
Medium	Granite, Densel limestone	Average	WCFHMM	WCFMMS
Medium Soft	Granite, Dolomite, Limestone, Bluestone	Average	WCFHMH	WCFMMH
Soft	Sandstone, Soft limestone	High	WCFHVH	WCFMVH



Undercut protection



ITEM WCFHU	D X T (Diameter X Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WCFHU453214	18 x .125	450 x 3.2	.551	14
WCFHU453614	18 x .141	450 x 3.6	.551	14
WCFHU454814	18 x .187	450 x 4.8	.551	14
WCFHU503614	20 x .141	500 x 3.6	.551	14
WCFHU504014	20 x .155	500 x 4.0	.551	14
WCFHU604014	24 x .155	600 x 4.0	.551	14
WCFHU604214	24 x .165	600 x 4.2	.551	14
WCFHU664214	26 x .165	660 x 4.2	.551	14
WCFHU664814	26 x .187	660 x 4.8	.551	14
WCFHU704814	28 x .187	700 x 4.8	.551	14
WCFHU754814	30 x .187	750 x 4.8	.551	14
WCFHU804814	32 x .187	800 x 4.8	.551	14
WCFHU904814	36 x .187	900 x 4.8	.551	14
WCFHU114814	42 x .187	1060 x 4.8	.551	14
WCFHU115614	42 x .220	1060 x 5.6	.551	14
WCFHU116414	42 x .250	1060 x 6.4	.551	14
WCFHY125614	48 x .220	1200 x 5.6	.551	14
WCFHU126414	48 x .250	1200 x 6.4	.551	14
WCFHU135614	54 x .220	1350 x 5.6	.551	14
WCFHU136414	54 x .250	1350 x 6.4	.551	14

* Standard arbor of 1" (25.4mm) with pin hole.

* Other specification is upon request

WET BLADE

WET CURED CONCRETE BLADES



WET CURED CONCRETE BLADES / SUPREME

Laser welded / For medium power flat saws

Diatop wet supreme concrete blades are designed for medium power floor saws of 25-40HP. Our wet supreme concrete blades are made for pro contractors who want optimum performance. Double laser welded on both sides to prevent the segment come off. Easy cut of reinforced concrete.

Wide range of application : highways, airport runways, city streets, parking lots, bridge decks, floors, walkways, loading docks, lamps.

Quality grade

- **WCFMS**: Supreme grade for large and more demanding applications. Easy cut of heavy reinforced concrete.



Undercut protection



TCT protection



Kicker segment protection

Bond selection

Aggregate hardness	Aggregate	Aggregate abrasiveness	Bond Available
Very hard	Chert, Flint, Quartz, Heavy reinforcing	Low	WCFMVS
Medium Hard	River gravel, Hard granite, Basalt	Average	WCFMMS
Medium	Granite, Densid limestone	Average	WCFMMS
Medium Soft	Granite, Dolomite, Limestone, Bluestone	Average	WCFMMH
Soft	Sandstone, Soft limestone	High	WCFMVH

ITEM WCFMS	D X T (Diameter X Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WCFMS353212	14 x .125	350 x 3.2	.472	12
WCFMS354812	14 x .187	350 x 4.8	.472	12
WCFMS403212	16 x .125	400 x 3.2	.472	12
WCFMS403612	16 x .141	400 x 3.6	.472	12
WCFMS453212	18 x .125	450 x 3.2	.472	12
WCFMS453612	18 x .141	450 x 3.6	.472	12
WCFMS454812	18 x .187	450 x 4.8	.472	12
WCFMS503612	20 x .141	500 x 3.6	.472	12
WCFMS504012	20 x .155	500 x 4.0	.472	12
WCFMS604012	24 x .155	600 x 4.0	.472	12
WCFMS604212	24 x .165	600 x 4.2	.472	12
WCFMS664212	26 x .165	660 x 4.2	.472	12
WCFMS664812	26 x .187	660 x 4.8	.472	12
WCFMS704812	28 x .187	700 x 4.8	.472	12
WCFMS754812	30 x .187	750 x 4.8	.472	12
WCFMS804812	32 x .187	800 x 4.8	.472	12
WCFMS904812	36 x .187	900 x 4.8	.472	12
WCFMS104812	42 x .187	1060 x 4.8	.472	12
WCFMS105612	42 x .220	1060 x 5.6	.472	12
WCFMS106412	42 x .250	1060 x 6.4	.472	12
WCFMS125612	48 x .220	1200 x 5.6	.472	12
WCFMS126412	48 x .250	1200 x 6.4	.472	12
WCFMS135612	54 x .220	1350 x 5.6	.472	12
WCFMS136412	54 x .250	1350 x 6.4	.472	12

* Standard arbor of over 14" is 1" (25.4mm) with pin hole.

* Other specification is upon request



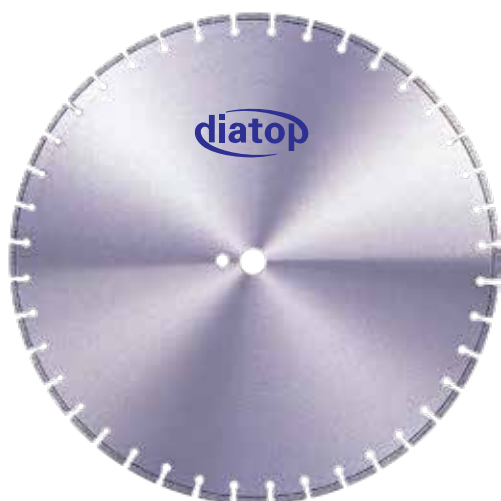
WET CURED CONCRETE BLADES / PREMIUM

Laser welded / For Low HP floor saws

Diatop wet premium concrete blades are designed for floor saws of less than 20HP. Our wet premium concrete blades are made for contractors who want optimum performance. Suitable for small to medium size project. Less cost with 10mm height segment. Double laser welded on both sides to prevent the segment come off. Range of application : city streets, parking lots, floors, walkways.

Quality grade

- **WCFLP** : Premium grade for small to medium size applications



Bond selection

Aggregate hardness	Aggregate	Aggregate abrasiveness	Bond Available
Very hard	Chert, Flint, Quartz, Heavy reinforcing	Low	WCFLVS
Medium Hard	River gravel, Hard granite, Basalt	Average	WCFLMS
Medium	Granite, Densid limestone	Average	WCFLMM
Medium Soft	Granite, Dolomite, Limestone, Bluestone	Average	WCFLMH
Soft	Sandstone, Soft limestone	High	WCFLVH

ITEM WCFL	D X T (Diameter X Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WCFLP353210	14 x .125	350 x 3.2	.394	10
WCFLP354810	14 x .187	350 x 4.8	.394	10
WCFLP403210	16 x .125	400 x 3.2	.394	10
WCFLP403610	16 x .141	400 x 3.6	.394	10
WCFLP453210	18 x .125	450 x 3.2	.394	10
WCFLP453610	18 x .141	450 x 3.6	.394	10
WCFLP454810	18 x .187	450 x 4.8	.394	10
WCFLP503610	20 x .141	500 x 3.6	.394	10
WCFLP504010	20 x .155	500 x 4.0	.394	10
WCFLP604210	24 x .165	600 x 4.2	.394	10
WCFLP664210	26 x .165	660 x 4.2	.394	10

* Standard arbor of over 14" is 1" (25.4mm) with pin hole.

* Other specification is upon request

WET BLADE

WET ASPHALT BLADES



WET ASPHALT BLADES / ULTRA

Laser welded / For high horsepower floor saws

Diatop wet asphalt blades are designed and engineered for high horse power floor saws of 40HP to 72HP. Maximum performance of cutting very abrasive aggregate of asphalt. High grade diamonds and high diamond concentration for experts. Laser welded upto 36"



Quality grade

- **WAFHU** : Ultra grade for large jobs and high production of cost per foot

Bond selection

Aggregate hardness	Bond
Very hard	VS
Medium Hard	MS
Medium	MM
Medium Soft	MH
Soft	VH

Undercut protection



3 step protection

ITEM WAFH	D X T (Diameter X Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WAFHU353212	14 x .125	350 x 3.2	.472	12
WAFHU354812	14 x .187	350 x 4.8	.472	12
WAFHU403212	16 x .125	400 x 3.2	.472	12
WAFHU403612	16 x .141	400 x 3.6	.472	12
WAFHU453212	18 x .125	450 x 3.2	.472	12
WAFHU453612	18 x .141	450 x 3.6	.472	12
WAFHU454812	18 x .187	450 x 4.8	.472	12
WAFHU503612	20 x .141	500 x 3.6	.472	12
WAFHU504012	20 x .155	500 x 4.0	.472	12
WAFHU604012	24 x .155	600 x 4.0	.472	12
WAFHU604212	24 x .165	600 x 4.2	.472	12
WAFHU664212	26 x .165	660 x 4.2	.472	12
WAFHU664812	26 x .187	660 x 4.8	.472	12
WAFHU704812	28 x .187	700 x 4.8	.472	12
WAFHU754212	30 x .165	750 x 4.2	.472	12
WAFHU754812	30 x .187	750 x 4.8	.472	12
WAFHU804812	32 x .187	800 x 4.8	.472	12
WAFHU904812	36 x .187	900 x 4.8	.472	12

* Standard arbor of over 14" is 1" (25.4mm) with pin hole (1"DP).

* Other specification is upon request



WET ASPHALT BLADES / SUPREME

Laser welded / For medium HP floor saws

Diatop wet asphalt blades are designed and engineered for floor saws of less than 40HP.
Maximum performance of cutting very abrasive aggregate of asphalt.
High grade diamonds and high diamond concentration for experts.
Laser welded upto 36"



Quality grade

- **WAFMS** : Supreme grade for medium to large size job site

Bond selection

Aggregate hardness	Bond
Very hard	VS
Medium Hard	MS
Medium	MS
Medium Soft	MH
Soft	VH

Undercut protection



ITEM WAFM	D X T (Diameter X Segment Thickness)		Segment Height (H)	
	Inch	mm	Inch	mm
WAFMS353210	14 x .125	350 x 3.2	.394	10
WAFMS354810	14 x .187	350 x 4.8	.394	10
WAFMS403210	16 x .125	400 x 3.2	.394	10
WAFMS403610	16 x .141	400 x 3.6	.394	10
WAFMS453210	18 x .125	450 x 3.2	.394	10
WAFMS453610	18 x .141	450 x 3.6	.394	10
WAFMS454810	18 x .187	450 x 4.8	.394	10
WAFMS503610	20 x .141	500 x 3.6	.394	10
WAFMS504010	20 x .155	500 x 4.0	.394	10
WAFMS604010	24 x .155	600 x 4.0	.394	10
WAFMS604210	24 x .165	600 x 4.2	.394	10
WAFMS664210	26 x .165	660 x 4.2	.394	10
WAFMS664810	26 x .187	660 x 4.8	.394	10
WAFMS704810	28 x .187	700 x 4.8	.394	10
WAFMS754210	30 x .165	750 x 4.2	.394	10
WAFMS754810	30 x .187	750 x 4.8	.394	10
WAFMS804810	32 x .187	800 x 4.8	.394	10
WAFMS904810	36 x .187	900 x 4.8	.394	10

* Standard arbor of over 14" is 1" (25.4mm) with pin hole (1"DP).

* Other specification is upon request

WET BLADE

AOC, PRECAST CONCRETE BLADES



WET ASPHALT OVER CONCRETE BLADES

Wet cutting / Laser welded

- Designed for sawing a combination of asphalt over concrete for high power floor saw of 35-75HP.
- When selecting blades, consider the amount of asphalt compared to the amount of concrete.
- Premium, Supreme and Ultra quality available.



Bond selection

Aggregate hardness	Bond Available
Hard aggregate or greater % of concrete than asphalt	WOFM
Soft to medium aggregate or greater % of asphalt than concrete	WOFH

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
WOF3532	14 x .125	350 x 3.2	.394, .472	10, 12
WOF4032	16 x .125	400 x 3.2	.394, .472	10, 12
WOF4536	18 x .141	450 x 3.6	.394, .472	10, 12
WOF5040	20 x .155	500 x 4.0	.394, .472	10, 12
WOF6040	24 x .155	600 x 4.0	.394, .472	10, 12
WOF6642	26 x .165	660 x 4.2	.394, .472	10, 12
WOF6648	26 x .187	660 x 4.8	.394, .472	10, 12
WOF7542	30 x .165	750 x 4.2	.394, .472	10, 12
WOF7548	30 x .187	750 x 4.8	.394, .472	10, 12

* Standard arbor of over 14" is 1" (25.4mm) with pin hole (1"DP).

* Other specification is upon request.

PRECAST CONCRETE BLADES

/ Wet cutting / Laser welded

- Easy cutting of precast concrete with rebar



Bond selection

Aggregate hardness	Aggregate	Bond
Medium hard	River gravel, Hard granite	HS
Medium	Granite, Densed Limestone	MM
Medium Soft	Granite, Dolomite, Limestone	MH

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
WPC6042	24 x .165	600 x 4.2	.394	10
WPC6642	26 x .165	660 x 4.2	.394	10
WPC7544	30 x .175	750 x 4.4	.394	10
WPC8048	32 x .187	800 x 4.8	.394	10
WPC10048	40 x .187	1000 x 4.8	.394	10

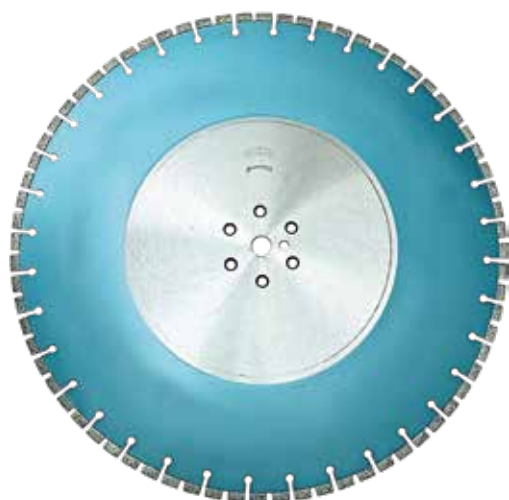
* Standard arbor is 1" (25.4mm) with pin hole.



WET WALL SAW BLADES

Laser welded or silver brazed / Wet cutting

- Designed for hydraulic rack mounted wall saws.
- Fast, consistent, accurate cuts on walls with sandwich segments.
- Sandwich segment improves straight sawing and reduces pinching.
- Split segment design for easy sawing.



Bond selection

Aggregate hardness	Bond Available
High strength concrete Heavy rebar with very hard aggregate	WSVS
High to medium strength concrete, normal rebar with medium to hard aggregate	WSMS
Regular strength concrete with some rebar Medium aggregate	WSMH

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
WS453610	18 x .141	450 x 3.6	.394	10
WS504410	20 x .175	500 x 4.4	.394	10
WS604810	24 x .187	600 x 4.8	.394	10
WS664810	26 x .187	660 x 4.8	.394	10
WS754810	30 x .187	750 x 4.8	.394	10
WS904810	36 x .187	900 x 4.8	.394	10
WS1004810	40 x .187	1000 x 4.8	.394	10
WS114813	42 x .187	1060 x 4.8	.500	13
WS115613	42 x .220	1060 x 5.6	.500	13
WS124813	48 x .187	1200 x 4.8	.500	13
WS125613	48 x .220	1200 x 5.6	.500	13
WS126413	48 x .250	1200 x 6.4	.500	13
WS135613	54 x .220	1350 x 5.6	.500	13
WS136413	54 x .250	1350 x 6.4	.500	13

* Pin holes are upon request.

Sandwich Segment Wall Saw Blades



Regular
Blade
Wear



Sandwich
Spec
Blade
Wear

Sandwich segment blades offer

FASTER CUTTING - blades maintain better clearance for their full life.

LONGER LIFE - blades can be worn out completely,
no more 75% worn blades that can't be used due to binding
and lack of side clearance

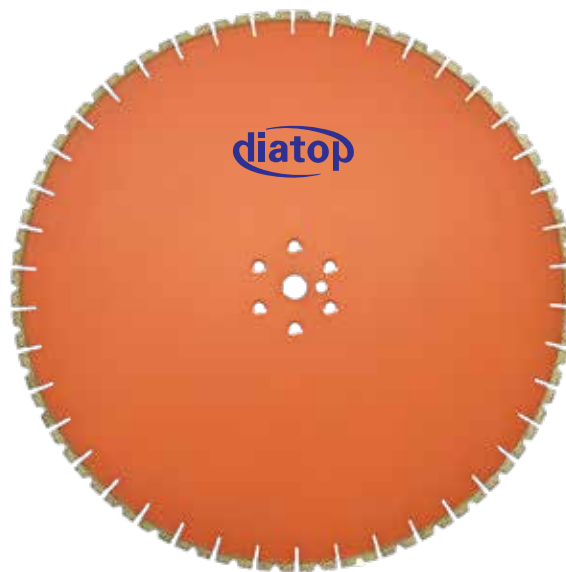


HYDRAULIC HAND SAW BLADES / Dry or wet

- Easy cut of reinforced hard concrete wall with hydraulic saw.
- Sandwich segments for even cutting
- High diamond concentration
- Strict balance checking
- 1" arbor with flush cut holes

Bond

Bond	Aggregate hardness
VS	Heavy rebar with very hard aggregate
S	Normal rebar with medium to hard aggregate
M	Standard hardness concrete with medium aggregate



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
WHS4036	16 x .142	400 x 3.6	.472	12
WHS5036	20 x .142	500 x 3.6	.472	12
WHS5236	20 5/8 x .142	524 x 3.6	.472	12
WHS6036	24 x .142	600 x 3.6	.472	12
WHS7538	30 x .150	750 x 3.8	.394	10

RING SAW BLADES

Laser welded

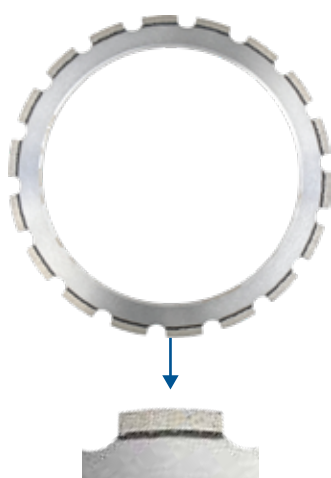
- 3 different bonds available.
- 10" cutting depth.
- Works on high speed ring saw.
- Fast cutting by waved segments.
- Drive wheel for K3600 is optional.

Bond

Aggregate Hardness	Aggregate	Bond
Very hard	Quartz, River gravel, Hard granite	S
Medium hard	Granite, Limestone, Basalt	M
Soft	Sandstone, Green concrete, Asphalt, Block	H

ITEM	D X T		Segment Height (H)		Remarks
	Inch	mm	Inch	mm	
RRH354008	14 x .155	350 x 4.0	.315	8	Regular segment
RWH354008	14 x .155	350 x 4.0	.315	8	Wave segment
RTH354008	14 x .155	350 x 4.0	.315	8	Turbo segment
RNH354008	14 x .155	350 x 4.0	.315	8	NiceCut segment

Regular segment



Wave segment



Turbo segment



NiceCut segment



WET BLADE

LOOP BLADES



LOOP BLADES / JOINT WIDENING BLADES

Laser welded / Dry or wet cutting

- Designed for sawing of traffic control loops as well as joint widening in green concrete or in cured concrete.
- Typical cutting depth is 2" or less for traffic control loops.
- Premium and Supreme quality available.
- Standard arbor is 1" (25.4mm)



ITEM		D X T	
Cured concrete	Asphalt, Green concrete	Inch	mm
DCFL3064	DAFL3064	12 x .250	300 x 6.4
DCFL3080	DAFL3080	12 x .315	300 x 8.0
WCFL3010	WAFL3010	12 x .394	300 x 10.0
WCFL3012	WAFL3012	12 x .500	300 x 12.7
WCFL3015	WAFL3015	12 x .590	300 x 15.0
WCFL3020	WAFL3020	12 x .787	300 x 20.0
DCFL3564	DAFL3564	14 x .250	350 x 6.4
DCFL3580	DAFL3580	14 x .315	350 x 8.0
WCFL3510	WAFL3510	14 x .394	350 x 10.0
WCFL3512	WAFL3512	14 x .500	350 x 12.7
WCFL3515	WAFL3515	14 x .590	350 x 15.0
WCFL3520	WAFL3520	14 x .787	350 x 20.0
WCFL4010	WAFL4010	16 x .394	400 x 10.0
WCFL4012	WAFL4012	16 x .500	400 x 12.7
DCFL4564	DAFL4564	18 x .250	450 x 6.4
DCFL4580	DAFL4580	18 x .315	450 x 8.0
WCFL4510	WAFL4510	18 x .394	450 x 10.0
WCFL4512	WAFL4512	18 x .500	450 x 12.7
WCFL4515	WAFL4515	18 x .590	450 x 15.0

* Other segment specification is upon request.



BEVEL BLADES

Wet / Laser welded

- For beveled V groove on the crack or control joints.
- Can be used in pairs with each blade having a 45° angle.
- Bevel blades can be redressed to maintain chamfer for angle.

ITEM	D X T		Segment T x H		Angle
	Inch	mm	Inch	mm	
VG3064	12	300	.250 x .250	6.4 x 6.4	45
VG3008	12	300	.315 x .315	8.0 x 8.0	45
VG3010	12	300	.394 x .394	10.0 x 10.0	45
VG3012	12	300	.472 x .472	12.0 x 12.0	45

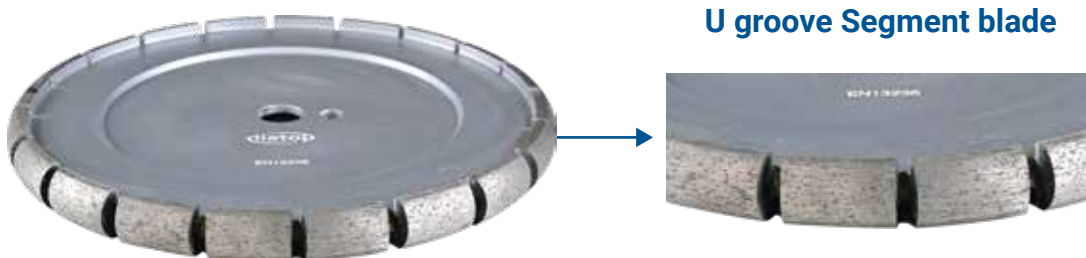


U GROOVING BLADE



- Suitable to cut U groove.

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
UGB14064	14 x 1.00	350 x 25	.472	12



WET BLADE

MULTI GROOVING BLADES



MULTI GROOVING BLADES

- To make grooves on the highway or airport runways with multiple blades.
- Fast cutting blades and long life blades available.

Item	Diameter x Segment thickness		Segment height		Arbor (mm)
	Inch	mm	Inch	mm	
MGB1222	5 x .087	125 x 2.2	.275	7	50
MGB1522	6 x .087	150 x 2.2	.275	7	55
MGB2524H	10 x .100	250 x 2.6	.394	10	Hexagon
MGB2560	10 x .236	250 x 6.0	.275	7	75
MGB2526H	10 x .100	250 x 2.6	.394	10	Hexagon 6 pin holes
MGB3232	12 5/8 x .125	320 x 3.2	.472	12	127mm with 8 holes
MGB3250	12 5/8 x .196	320 x 5.0	.472	12	127mm with 8 holes
MGB32200	12 5/8 x .788	320 x 10/20	.472	12	127mm with 8 holes



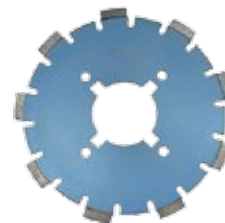
MGB1222



MGB1522



MGB2526H



MGB2560



MGB2526H



MGB3232



MGB3250



MGB32200

Wide flute

GROOVING BLADES

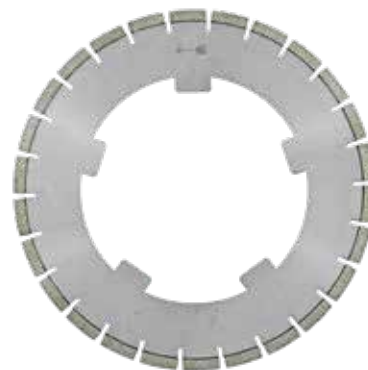
- To make grooves on the highway or airport runways with multiple blades.
- Fast cutting blades and long life blades available.



Item	Diameter x Segment thickness		Segment height		Arbor (mm)
	Inch	mm	Inch	mm	
MGB403210	16 x .125	400 x 3.2	.394	10	75mm with 5 pin holes
MGB453610	18 x .141	450 x 3.6	.394	10	60mm key hole
MGB403212	16 x .125	400 x 3.2	.472	12	248.5
MGB473610	18 1/2 x .141	470 x 3.6	.394	10	203.2



MGB403210



MGB403212



MGB453610



MGB473610

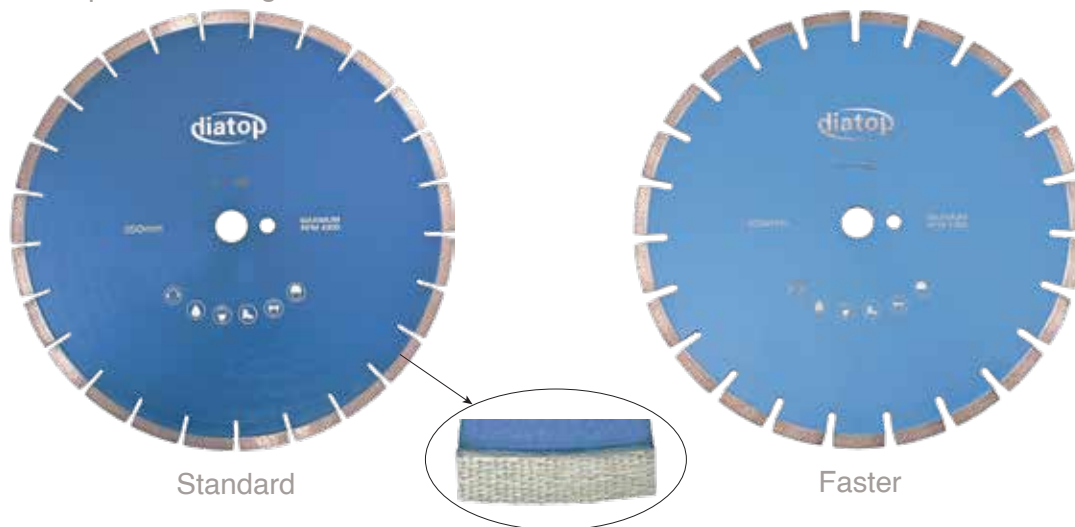
WET BLADE

XPRESS CORE CUTTING BLADES



XPRESS core cutting blade for natural rocks / Patterned diamond technology / Silver brazed / Wet

- New technology of patterned diamonds
- Faster cutting & longer life
- Enjoy the speed and clean cut
- Recommend faster blade for smooth cutting on very hard mineral
- Clean and precise cutting



Item	D x T Inch mm	Segment Length(mm)	Category of rocks	Number of segments	Bond hardness	
XCXF 302810	12 x .110	300 x 2.8	10	Type 5	19	Extremely soft
XCXF 352810	14 x .110	350 x 2.8	10	Type 5	23	Extremely soft
XCX 302810	12 x .110	300 x 2.8	10	Type 5	21	Extremely soft
XCX 352810	14 x .110	350 x 2.8	10	Type 5	25	Extremely soft
XCV 302810	12 x .110	300 x 2.8	10	Type 3,4	21	Very soft
XCV 352810	14 x .110	350 x 2.8	10	Type 3,4	25	Very soft
XCS 302810	12 x .110	300 x 2.8	10	Type 2	21	Soft
XCS 352810	14 x .110	350 x 2.8	10	Type 2	25	Soft

- * 1. Bore hole: 25.4mm (1")
2. Silent steel body available(NCX)

The characteristic of Xpress blade

- Xpress core cutting blade is most powerful blade to cut very hard cores of natural rocks.
- The Xpress technology features optimized distribution of diamonds compared to conventional random mix diamonds.
- The conventional random mixing of diamonds and metal powder have problems of uneven distribution of diamond powder. Some part of segment is less diamonds. Some part of segment is concentrated with lots of diamonds. It makes the blade speed slower and shorter cutting life.
- The Xpress technology makes even load distribution, optimized cooling by equally dispersed diamond position and a constantly high cutting performance.
- You can enjoy the faster speed and longer life of Diatop Xpress core cutting blade

WET BLADE

CORE CUTTING BLADES



Core cutting blades for natural rock

Core cutting blades for natural rock / Silver brazed / Wet

- Four kinds of bond for different hardness of rocks
- Suitable to cut cores of natural rocks and minerals

Silent core cutting blade

Item	D x T mm	Segment Height (mm)	Category of rocks	Bond hardness
NCCX 302810	300 x 2.8	10	Type 5	Extremely soft
NCCX 352810	350 x 2.8	10	Type 5	Extremely soft
NCCV 302810	300 x 2.8	10	Type 3,4	Very soft
NCCV 352810	350 x 2.8	10	Type 3,4	Very soft
NCCS 302810	300 x 2.8	10	Type 2	Soft
NCCS 352810	350 x 2.8	10	Type 2	Soft
NCCM 302810	300 x 2.8	10	Type 1	Medium
NCCM 352810	350 x 2.8	10	Type 1	Medium

1. Laminated silent core
2. 12mm segment height available

Regular core cutting blade

Item	D x T mm	Segment Height (mm)	Category of rocks	Bond hardness
CCX 302810	300 x 2.8	10	Type 5	Extremely soft
CCX 352810	350 x 2.8	10	Type 5	Extremely soft
CCV 302810	300 x 2.8	10	Type 3,4	Very soft
CCV 352810	350 x 2.8	10	Type 3,4	Very soft
CCS 302810	300 x 2.8	10	Type 2	Soft
CCS 352810	350 x 2.8	10	Type 2	Soft
CCM 302810	300 x 2.8	10	Type 1	Medium
CCM 352810	350 x 2.8	10	Type 1	Medium

* Pin holes upon request



Category of rocks

Type 5	Chert, Quartz, Red Granite, Jasperlite, Strongly Silicified, Glassy Highly Altered, Intrusives, Volcanics
Type 4	Quartzite, Rhyolite, Tonalite, Aplite, Banded Iron, Taconite
Type 3	Siliceous Volcanics, Hard Schist, Hard Limestone, Gneiss, Basalt, Andesite, Pegmatite, Granite, Gabbro, Anorthosite, Amphibolite, Diabase, Dolerite
Type 2	Marble, Schist, Limonite, Weathered granite, Siliceous Schist, Serpentine, Phyllites, Norite
Type 1	Tuff, Shale, Gypsum, Clay, Potash, Talc, Soft Sandstone, Calcite, Pyroxenite

PMA DRY BLADES

PROFESSIONAL MULTI APPLICATION BLADES

The true combination blades

- Nowadays there are many kinds of combo blades as multi application blades in the construction market.
- In 2003, Diatop was the original manufacturer of combo blades to cut concrete and asphalt with one blade.
- Diatop's original super combo blades were the best seller from 2003 to 2007.
- Last decade we added several different shapes of combo blades as well as different bonds.
- Recently we launched Xpress Rapido combo blades which have patterned diamond segments.
- Xpress Rapido combo blade can cut faster than any other blades.
- You can enjoy comfortable operation and durable cutting footage.
- You can save the cutting cost by Xpress Rapido blades.
- Please select most suitable blade for your job.



Super Combo



Power Combo



Nice Cool



Prime



Nice Cut



Power Turbo



Xpress Rapido



Multi cut

PMA DRY BLADES

PROFESSIONAL MULTI APPLICATION BLADES

H



XPRESS RAPIDO COMBO BLADES

Laser welded / Dry cutting

- New patterned diamond technology.
- Unique turbo groove for fast cutting.
- Ideal blade for hard materials.
- Enjoy powerful speed!



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DRXH3032	12 x .125	300 x 3.2	.472	12
DRXH3532	14 x .125	350 x 3.2	.472	12
DRXH4032	16 x .125	400 x 3.2	.472	12

* Standard arbor : 1" (25.4mm)

* Cutting materials : Hard aggregate cured concrete, heavy reinforced concrete, prestressed concrete, precast concrete, concrete pipe, concrete pile, hand brick, paver, roof tile, granite, limestone and bluestone.

XPRESS STORM BLADES



- Powerful segment design with patterned diamond.
- Easy and speedy cutting.
- Smooth cutting of hard materials.

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DSXH3032	12 x .125	300 x 3.2	.472	12
DSXH3532	14 x .125	350 x 3.2	.472	12
DSXH4032	16 x .125	400 x 3.2	.472	12

* Cutting materials : Hard aggregate cured concrete, heavy reinforced concrete, prestressed concrete, precast concrete, concrete pipe, concrete pile, hand brick, paver, roof tile, granite, limestone and bluestone.

PMA DRY BLADES

PROFESSIONAL MULTI APPLICATION BLADES



SUPER COMBO BLADES / Dry

Laser welded / Dry cutting

True combination blade which can cut concrete and asphalt.

- Fast cutting and good life. Suitable for small and medium jobs.
- No need to change blade to cut concrete or asphalt.
- Ideal blades for rental business and for pro contractors.
- Can be used for high speed hand held saw, table saws, masonry saws and floor saws of less 35HP.



* Cutting materials : Hard aggregate cured concrete, heavy reinforced concrete, prestressed concrete, precast concrete, concrete pipe, concrete pile, brick, block, roof tile, granite, limestone, bluestone, asphalt.

ITEM	D X T		Segment Height (H)		Arbor
	Inch	mm	Inch	mm	
DCAH3032	12 x .125	300 x 3.2	.315, .394	8, 10	20mm, 1" - 20
DCAH3532	14 x .125	350 x 3.2	.315, .394	8, 10	20mm, 1" - 20
DCAH4032	16 x .125	400 x 3.2	.315, .394	8, 10	25.4, 30
DCAH4532	18 x .125	450 x 3.2	.315, .394	8, 10	25.4, 30
DCAH5036	20 x .141	500 x 3.6	.315, .394	8, 10	25.4, 30

* Quality available : Premium, Supreme



POWER COMBO BLADES

Laser welded / Dry & Wet cutting

- True combination blade for hard concrete and soft material.
- No need to change blade according to different material
- Suitable for pro contractors, rental shops and masonry works.
- Lowest cost per cut and time saving.



* Cutting materials : Hard aggregate cured concrete, heavy reinforced concrete, prestressed concrete, precast concrete, concrete pipe, concrete pile, brick, block, roof tile, granite, limestone, bluestone, asphalt.

ITEM	D X T		Segment Height (H)		Arbor
	Inch	mm	Inch	mm	
DPCH3032	12 x .125	300 x 3.2	.315, .394	8, 10	20mm, 1" - 20
DPCH3532	14 x .125	350 x 3.2	.315, .394	8, 10	20mm, 1" - 20
DPCH4032	16 x .125	400 x 3.2	.315, .394	8, 10	25.4, 30
DPCH4532	18 x .125	450 x 3.2	.315, .394	8, 10	25.4, 30
DPCH5036	20 x .141	500 x 3.6	.315, .394	8, 10	25.4, 30

* Quality available : Premium, Supreme

PMA DRY BLADES

PROFESSIONAL MULTI APPLICATION BLADES



NICE SPEEDO BLADES

Laser welded / Dry & Wet cutting

The fastest blades in it's kind.

- Cut most of construction materials of concrete and masonry.
- Most suitable for rental shops and pro contractors.
- Easy and simple to select proper saws.



* Cutting materials : Hard aggregate cured concrete, heavy reinforced concrete, prestressed concrete, precast concrete, concrete pipe, concrete pile, brick, roof tile, granite, limestone, bluestone, paver.

ITEM	D X T		Segment Height (H)		Arbor
	Inch	mm	Inch	mm	
DNSH3032	12 x .125	300 x 3.2	.315, .394	8, 10	20mm, 1" - 20
DNSH3532	14 x .125	350 x 3.2	.315, .394	8, 10	20mm, 1" - 20
DNSH4032	16 x .125	400 x 3.2	.315, .394	8, 10	25.4, 30
DNSH4532	18 x .125	450 x 3.2	.315, .394	8, 10	25.4, 30
DNSH5036	20 x .141	500 x 3.6	.315, .394	8, 10	25.4, 30



NICE COOL BLADES

Laser welded / Dry & Wet cutting

- Simple to select specific blades.
- Most suitable for rental markets and pro contractors.
- Extensive cutting applications from every hard materials to soft materials.
- Wide range of machines to use.



* Cutting materials : Hard aggregate cured concrete, reinforced concrete, prestressed concrete, precast concrete, brick.

ITEM	D X T		Segment Height (H)		Arbor
	Inch	mm	Inch	mm	
DNKH3032	12 x .125	300 x 3.2	.315, .394	8, 10	20mm, 1" - 20
DNKH3532	14 x .125	350 x 3.2	.315, .394	8, 10	20mm, 1" - 20
DNKH4032	16 x .125	400 x 3.2	.315, .394	8, 10	25.4, 30
DNKH4532	18 x .125	450 x 3.2	.315, .394	8, 10	25.4, 30
DNKH5036	20 x .141	500 x 3.6	.315, .394	8, 10	25.4, 30

PMA DRY BLADES

PROFESSIONAL MULTI APPLICATION BLADES



NICECUT BLADES

Laser welded / Dry cutting

- The most versatile blade in its kind. Engineered and designed for cutting various materials from soft to hard and abrasives. Air holes as a pinwheel cool down the overheat of steel core during dry cutting.
- Patented NiceCut segments enable fast cutting and smooth cutting by reducing the cutting resistance.
- Premium and Supreme quality available.



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DNCH3032	12 x .125	300 x 3.2	.315, .394, .472	8, 10, 12
DNCH3532	14 x .125	350 x 3.2	.315, .394, .472	8, 10, 12
DNCH4032	16 x .125	400 x 3.2	.315, .394, .472	8, 10, 12
DNCH4532	18 x .125	450 x 3.2	.315, .394, .472	8, 10, 12
DNCH5036	20 x .141	500 x 3.6	.315, .394, .472	8, 10, 12

* Standard arbor is 1"(25.4mm)-20 and pin hole.

* Cutting materials: Granite, cured concrete, blocks, pavers, roof tiles, limestone, bluestone, bricks, green concrete and asphalt



POWER TURBO BLADES

Laser welded / Dry cutting

- Fast cutting segment of turbo segment with groove.
- Suitable for hard materials.



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DPTH3032	12 x .125	300 x 3.2	.394, .472	10, 12
DPTH3532	14 x .125	350 x 3.2	.394, .472	10, 12
DPTH4032	16 x .125	400 x 3.2	.394, .472	10, 12

* Cutting materials : Hard aggregate cured concrete, reinforced concrete, prestressed concrete, precast concrete, brick.

DRY BLADE

PROFESSIONAL MULTI APPLICATION BLADES

MULTICUT COMBO BLADES

Laser welded / Dry cutting

- Combination blades for soft stone and hard concrete.
- The mix of regular segments and deep segments as well as turbo segments can cut various materials as hard concrete and abrasive sandstone.
- Premium and Supreme quality available.



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DMCH3032	12 x .125	300 x 3.2	.394	10
DMCH3532	14 x .125	350 x 3.2	.394	10
DMCH4032	16 x .125	400 x 3.2	.394	10

* Standard arbor : 1" (25.4mm)

* Cutting materials : Cured concrete, Hard brick, block, sand stone, limestone

PRIME BLADES

Laser welded / Dry cutting

- High performance multi application blades designed for hard construction materials.
- Slanted U slots make fast discharge of debris.
- Reduce the overheat of steel core by swirly air holes.
- Great saving of cutting cost by 15mm tall segments.
- Premium and Supreme quality available.



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DPRTH3032	12 x .125	300 x 3.2	.394, .472, .590	10, 12, 15
DPRTH3532	14 x .125	350 x 3.2	.394, .472, .590	10, 12, 15
DPRTH4032	16 x .125	400 x 3.2	.394, .472, .590	10, 12, 15
DPRTH4532	18 x .125	450 x 3.2	.394, .472, .590	10, 12, 15
DPRTH5036	20 x .125	500 x 3.2	.394, .472, .590	10, 12, 15

* Standard arbor is 1" (25.4mm)-20 and pin hole.

* Cutting materials : Concrete blocks, abrasive blocks, pavers, slabs, roof tiles, hard bricks and stone.



DRY BLADE

XPRESS DRY CONCRETE BLADES



XPRESS DRY CONCRETE BLADES

Laser welded / Dry / Patterned diamonds

- Higher speed and longer life than ordinary random diamond blade.
- You can use with low horsepower floor saw or handheld power saws.
- Smooth cutting of all kinds of cured concrete.



Bond selection

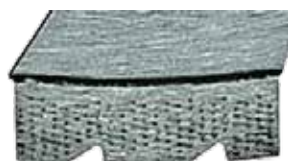
Concrete hardness	BOND
Very hard	VS
Hard	S
Medium	M

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DCXH3532	14 x .125	350 x 3.2	.394	10
DCXH4032	16 x .125	400 x 3.2	.394	10
DCXH4532	18 x .125	450 x 3.2	.394	10

XPRESS SHARK / DRY CONCRETE

Laser welded / Patterned diamonds

- Very high speed than ordinary random diamond blade.
- Used for low HP floor saw and handheld power saws.
- Smooth cutting of all kinds of cured concrete and hard materials.



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DCXS3032	12 x .125	300 x 3.2	.472	12
DCXS3532	14 x .125	350 x 3.2	.472	12

DRY BLADE

DRY CONCRETE BLADES



DRY CONCRETE BLADES

Laser welded / For handheld saws or low power flat saws

- Engineered for fast cutting and long life.
- High efficiency in dry cutting of cured concrete with handheld saws or low power walk behind saws of less 25HP.
- Medium, Hard and Soft bond available.



Quality grade

• DCHP : Premium

• DCHS : Supreme

• DCHU : Ultra

ITEM	D X T				Segment Height (H)	
	Inch		mm		Inch	mm
DCH3028	12	.110	300	2.8	.275, .315, .394	7, 8, 10
DCH3032	12	.125	300	3.2	.275, .315, .394	7, 8, 10
DCH3528	14	.110	350	2.8	.275, .315, .394	7, 8, 10
DCH3532	14	.125	350	3.2	.275, .315, .394	7, 8, 10
DCH4032	16	.125	400	3.2	.275, .315, .394	7, 8, 10
DCH4532	18	.125	450	3.2	.275, .315, .394	7, 8, 10
DCH5040	20	.155	500	4.0	.275, .315, .394	7, 8, 10

ALL-ROUND ANYCON BLADES



Laser welded / Dry & Wet cutting

- Free cutting of all kinds of cured concrete.
- Able to cut light reinforced concrete.
- Cooling air holes for dry cutting.
- Premium and Supreme quality available.



ITEM	D X T				Segment Height (H)	
	Inch		mm		Inch	mm
DCFH3032	12	.125	300	3.2	.275, .315, .394	7, 8, 10
DCFH3532	14	.125	350	3.2	.275, .315, .394	7, 8, 10
DCFH4032	18	.125	400	3.2	.275, .315, .394	7, 8, 10
DCFH4536	18	.141	450	3.6	.275, .315, .394	7, 8, 10

* Bore hole is 1"(25.4mm) and DP

DRY BLADE

DRY ASPHALT BLADES



DRY ASPHALT-GREEN CONCRETE BLADES

Laser welded / For handheld saws or low power flat saws

- Designed for fast cutting and long life.
- Best choice for medium size works.
- High efficiency in dry cutting of low power flat saws of 25HP less.
- Premium, Supreme and Ultra quality available

ITEM	D X T				Segment Height (H)	
	Inch		mm		Inch	mm
DAH3028	12	.110	300	2.8	.275, .315, .394	7, 8, 10
DAH3032	12	.125	300	3.2	.275, .315, .394	7, 8, 10
DAH3532	14	.125	350	3.2	.275, .315, .394	7, 8, 10
DAH4032	16	.125	400	3.2	.275, .315, .394	7, 8, 10
DAH4536	18	.141	450	3.6	.275, .315, .394	7, 8, 10
DAH5040	20	.155	500	4.0	.275, .315, .394	7, 8, 10

*** Undercut Protection**

* 12" & 14" are for high speed handheld saws.

* Standard arbor is 1" (25.4mm)-20 and DP. 20mm for 12" available

T
TCT
inserted



D
Deep
segment



S
Slanted
Segment



DRY BLADE

XPRESS SOFFCUT BLADES



XPRESS SOFFCUT BLADES

Patterned diamond technology / Dry / Laser welded

- Provide highly efficient, stable and convenient operation in green concrete.
- Our Xpress early entry blades will power through your early entry cutting projects with ease due to patterned diamond technology.

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DGXVS3032	12 x .125	305 x 3.2	.472	12
DGXVS3432	13 1/2 x .125	343 x 3.2	.472	12
DGXMS3032	12 x .125	305 x 3.2	.472	12
DGXMS3432	13 1/2 x .125	343 x 3.2	.472	12

* Other bond available upon request



XPRESS SOFFCUT TURBO BLADE

Patterned diamond technology / Dry / Laser welded

- Very fast entry due to sharp edge segments with patterned diamond technology.
- Very suitable for green concrete which were poured within one or two hours.

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DSXVS3032	12 x .125	305 x 3.2	.472	12
DSXVS3432	13 1/2 x .125	343 x 3.2	.472	12
DSXMS3032	12 x .125	305 x 3.2	.472	12
DSXMS3432	13 1/2 x .125	343 x 3.2	.472	12

* Other bond available upon request



VARI CUT SOFFCUT BLADE

Dry / Laser welded

- Specially designed diamond segments with V notches make the cutting green concrete quick and smooth.
- Available for the green concrete with ultra hard aggregate and for green concrete with medium to hard aggregate

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DVXVS3032	12 x .125	305 x 3.2	.472	12
DVXVS3432	13 1/2 x .125	343 x 3.2	.472	12
DVXMS3032	12 x .125	305 x 3.2	.472	12
DVXMS3432	13 1/2 x .125	343 x 3.2	.472	12

* Other bond available upon request



EARLY ENTRY

SOFFCUT BLADES



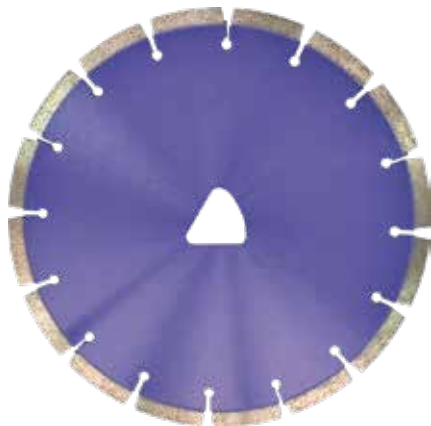
SOFFCUT BLADES

Early entry blades / Dry or wet

- Suitable for Soffcut saws
- For sawing of concrete joints in one to two hours after pouring a concrete slab.

Bond

Bond		Aggregate	Color
VS	Very soft	Ultra hard aggregate, flint	Purple
S	Soft	Hard aggregate, chert	Green
MS	medium soft	Medium to hard aggregate, trap rock	Red
M	Medium	Medium aggregate, medium abrasive sand, quartz	Orange
H	Hard	Medium to soft aggregate, abrasive sand, granite	Yellow
VH	Very hard	Soft aggregate, Limestone	Black



Very soft bond for ultra hard aggregates / Purple

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DGVS1525	6 x .100	152 x 2.5	.394, .472	10, 12
DGVS1625	6 1/2 x .100	165 x 2.5	.394, .472	10, 12
DGVS2025	8 x .100	203 x 2.5	.394, .472	10, 12
DGVS2525	10 x .100	254 x 2.5	.394, .472	10, 12
DGVS3030	12 x .125	305 x 3.2	.394, .472	10, 12
DGVS3064	12 x .250	305 x 6.4	.315	8
DGVS3430	13 1/2 x .125	343 x 3.2	.394, .472	10, 12
DGVS3464	13 1/2 x .250	343 x 6.4	.315	8



Soft bond for hard aggregate / Green

ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DGS1525	6 x .100	152 x 2.5	.394, .472	10, 12
DGS1625	6 1/2 x .100	165 x 2.5	.394, .472	10, 12
DGS2025	8 x .100	203 x 2.5	.394, .472	10, 12
DGS2525	10 x .100	254 x 2.5	.394, .472	10, 12
DGS3032	12 x .125	305 x 3.2	.394, .472	10, 12
DGS3064	12 x .250	305 x 6.4	.315	8
DGS3096	12 x .380	305 x 9.6	.315	8
DGS3012	12 x .500	305 x 12.7	.315	8
DGS3432	13 1/2 x .125	343 x 3.2	.394, .472	10, 12
DGS3464	13 1/2 x .250	343 x 6.4	.315	8

EARLY ENTRY

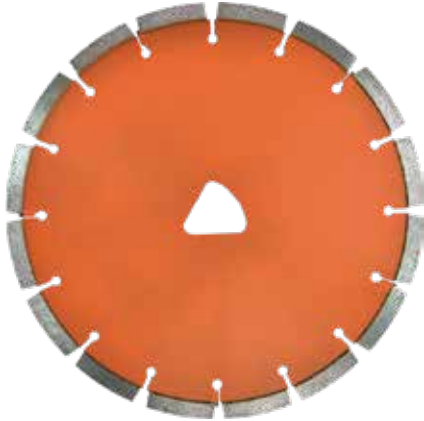
SOFFCUT BLADES

Medium soft bond for medium to hard aggregate / Red



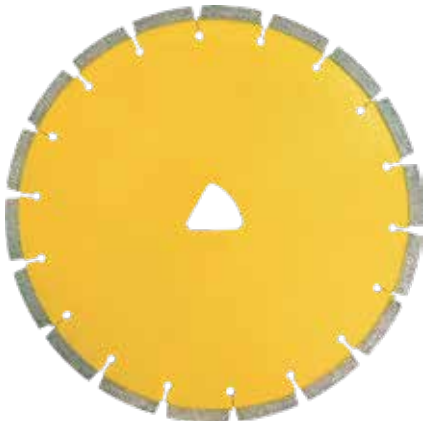
ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DGMS1525	6 x .100	152 x 2.5	.394, .472	10, 12
DGMS1625	6 1/2 x .100	165 x 2.5	.394, .472	10, 12
DGMS2025	8 x .100	203 x 2.5	.394, .472	10, 12
DGMS2525	10 x .100	254 x 2.5	.394, .472	10, 12
DGMS3032	12 x .125	305 x 3.2	.394, .472	10, 12
DGMS3064	12 x .250	305 x 6.4	.394, .472	10, 12
DGMS3096	12 x .380	305 x 9.6	.394, .472	10, 12
DGMS3012	12 x .500	305 x 12.7	.394, .472	10, 12
DGMS3432	13 1/2 x .125	343 x 3.2	.394, .472	10, 12
DGMS3464	13 1/2 x .250	343 x 6.4	.394, .472	10, 12
DGMS3496	13 1/2 x .380	343 x 9.6	.394, .472	10, 12

Medium bond for medium aggregate / Orange



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DGM1525	6 x .100	152 x 2.5	.394, .472	10, 12
DGM1625	6 1/2 x .100	165 x 2.5	.394, .472	10, 12
DGM2025	8 x .100	203 x 2.5	.394, .472	10, 12
DGM2525	10 x .100	254 x 2.5	.394, .472	10, 12
DGM3032	12 x .125	305 x 3.2	.394, .472	10, 12
DGM3056	12 x .220	305 x 5.6	.394, .472	10, 12
DGM3432	13 1/2 x .125	343 x 3.2	.394, .472	10, 12

Hard bond for medium to soft aggregate / Yellow



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DGH1525	6 x .100	152 x 2.5	.394, .472	10, 12
DGH2025	8 x .100	203 x 2.5	.394, .472	10, 12
DGH2525	10 x .100	254 x 2.5	.394, .472	10, 12
DGH3032	12 x .125	305 x 3.2	.394, .472	10, 12
DGH3064	12 x .250	305 x 6.4	.394, .472	10, 12
DGH3096	12 x .380	305 x 9.6	.394, .472	10, 12
DGH3012	12 x .500	305 x 12.7	.394, .472	10, 12
DGH3432	13 1/2 x .125	343 x 3.2	.394, .472	10, 12
DGH3464	13 1/2 x .250	343 x 6.4	.394, .472	10, 12
DGH3496	13 1/2 x .380	343 x 9.6	.394, .472	10, 12

Very hard bond for soft aggregate / Black



ITEM	D X T		Segment Height (H)	
	Inch	mm	Inch	mm
DGVH1525	6 x .100	152 x 2.5	.394, .472	10, 12
DGVH2025	8 x .100	203 x 2.5	.394, .472	10, 12
DGVH2525	10 x .100	254 x 2.5	.394, .472	10, 12
DGVH3032	12 x .125	305 x 3.2	.394, .472	10, 12
DGVH3432	13 1/2 x .125	343 x 3.2	.394, .472	10, 12

DRY BLADE

MASONRY BLADES



LT BLADES (Laser Turbo Segmented blade)

Laser welded / Dry & Wet cutting

- LT blades designed for fast cutting of masonry and concrete materials.
- The turbo shape segments enable easy removing of debris and easy cutting.



Quality grade

• DLTHP : Premium

• DLTHS : Supreme

ITEM	Inch		D X T		Segment Height (H)
			mm		mm
DLTH1724	7	.094	178	2.4	8, 10
DLTH2024	8	.094	200	2.4	8, 10
DLTH2326	9	.100	230	2.6	8, 10
DLTH2526	10	.100	250	2.6	8, 10
DLTH3032	12	.125	300	3.2	8, 10
DLTH3532	14	.125	350	3.2	8, 10
DLTH4532	18	.125	450	3.2	8, 10



BRICK BLADES

Dry or Wet cutting / Laser welded

- Laser welded dry cutting masonry blades cut a wide range of masonry materials.
- Provide fast and easy cutting with a constant depth of cut.
- Premium, Supreme and Ultra quality available.
- Silent masonry blades are upon request.
- Bond : Hard, Medium, Soft.



ITEM	Inch		D X T		Segment Height (H)
			mm		mm
DBRH3528	14	.110	350	2.8	7, 8, 10
DBRH3532	14	.125	350	3.2	7, 8, 10
DBRH4532	18	.125	450	3.2	7, 8, 10
DBRH5032	20	.125	500	3.2	7, 8, 10
DBRH5036	20	.141	500	3.6	7, 8, 10

DRY BLADE

HARD BRICK BLADES



HB BLADES (Very Hard Brick & Pavers blade)

Laser welded / Dry & Wet cutting

- HB blades can cut the hardest brick, pavers and stones.
- Excellent for prestressed concrete or precast concrete.
- High grade diamonds and high diamond concentration.
- Turbo segments make faster cutting.
- Premium and Supreme quality available.



ITEM	D X T		Segment Height (H)		
	Inch	mm	mm	mm	mm
DHBTH3032	12	.125	300	3.2	8, 10
DHBTH3532	14	.125	350	3.2	8, 10
DHBTH4532	18	.125	450	3.2	8, 10



ITEM	D X T		Segment Height (H)		
	Inch	mm	mm	mm	mm
DHBRH2524	10	.094	250	2.4	8, 10
DHBRH3032	12	.125	300	3.2	8, 10
DHBRH3532	14	.125	350	3.2	8, 10
DHBRH4032	16	.125	400	3.2	8, 10
DHBRH4532	18	.125	450	3.2	8, 10
DHBRH5036	20	.141	500	3.6	8, 10

DRY BLADE

REFRACTORY BLADES, JOINT CLEANING BLADES



REFRACTORY BLADES

Dry / Laser welded

- For fast cutting of hard refractory bricks.
- The lowest possible cost per cut.



Quality grade

- DRFHP : Premium
- DRFHS : Supreme

Bond selection

Aggregate Type	BOND
Very hard, fused cast refractories	DRFS
Hard, high alumina	DRFM
Medium hard refractories	DRFH

ITEM	D X T				Segment Height (H)	
	Inch		mm		Inch	mm
DRFM3532	14	.125	350	3.2	7,8	
DRFM4032	16	.125	400	3.2	7,8	
DRFM4532	18	.125	450	3.2	7,8	
DRFM4536	18	.141	450	3.6	7,8	
DRFM5036	20	.141	500	3.6	7,8	

* Available arbor : 20mm, 25.4mm, 30mm and 50mm

* Silent refractory blades available.

JOINT CLEANING BLADES

Laser welded / Silent core / Dry

- Used in pairs for fast removal of sealants and compressibles in existing control joints.



ITEM	D X T				Segment Height (H)	
	Inch		mm		Inch	mm
JCB3532	14	.250	350	6.4	.315	8

* Available arbor : 20mm, 25.4mm

DRY BLADE

UNIVERSAL BLADES



UNIVERSAL BLADES

Laser welded / Dry cutting

Economy use of general building materials, bricks, blocks, roof tiles and general masonry products. Designed to ensure the safe operation without the failure of any segments by double laser welding.



Quality grade

- DUHP : Universal Premium
- DUHS : Universal Supreme
- DUHU : Universal Ultra

ITEM	D X T		Height	
	Inch	mm	mm	mm
DUH1020	4	.080	100	2.0
DUH1122	4 1/2	.086	115	2.2
DUH1222	5	.086	125	2.2
DUH1522	6	.086	150	2.2
DUH1722	7	.086	178	2.2
DUH2024	8	.094	200	2.4
DUH2324	9	.094	230	2.4
DUH2524	10	.094	250	2.4
DUH3028	12	.110	300	2.8
DUH3032	12	.125	300	3.2
DUH3528	14	.110	350	2.8
DUH3532	14	.125	350	3.2
DUH4032	16	.125	400	3.2
DUH4532	18	.125	450	3.2
DUH5036	20	.141	500	3.6

* Arbor holes are 7/8", 20mm, 5/8" for 4" ~ 10"

* Arbor holes for 12" are 20mm, 1"

* Arbor hole for 14" ~ 20" is 1"

* DM 7/8" - 5/8" for 7", 8", 10" available

* Different arbor is upon request.



WALL CHASER BLADES

Dry cutting blades for wall chaser to groove the wall. Easy to cut concrete or hard and soft brick. Used in single or pair.



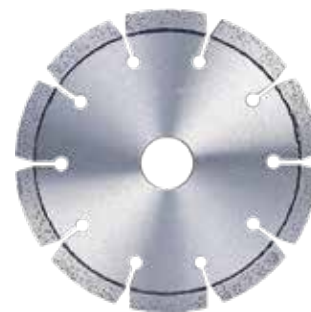
ITEM	D X T		Height	
	Inch	mm	mm	mm
DWH125	5	.086	125	2.2
DWH150	6	.086	150	2.2
DWH180	7	.086	180	2.2
DWH230	6	.094	230	2.4

* Standard arbor is 7/8" (22.23mm)



ABRASIVE BLADES

Suitable to cut abrasive material as soft bricks lightweight concrete blocks, plaster, sandstone and limesandstone. Premium, Supreme, Ultra quality available.



ITEM	D X T		Height	
	Inch	mm	mm	mm
DUAH1122	4 1/2	.086	115	2.2
DUAH1222	5	.086	125	2.2
DUAH2324	9	.094	230	2.4
DUAH3028	12	.110	300	2.8

DRY BLADE

TUCK POINT BLADES

HG



TUCK POINT BLADES

Dry cutting or Wet cutting

Laser Tuck Point blades / Laser welded / Dry

- Deliver fast, efficient removal of mortar joint in brick works.
- To clean the expansion joint of concrete.
- Hard bond and medium bond available.



ITEM	Inch		D X T		Height mm
				mm	
STP1064	4	.250	100	6.40	7, 9.6
STP1164	4 1/2	.250	115	6.40	7, 9.6
STP1264	5	.250	125	6.40	7, 9.6
STP1510	6	.394	150	10.0	7
STP1864	7	.250	178	6.40	7, 9.6
STP2064	8	.250	200	6.40	7, 9.6
STP2010	8	.394	200	10.0	7
STP2015	8	.590	200	15.0	7

* Standard arbor is 7/8" – 5/8"

Tuck point with TCT protection / Laser welded / Dry

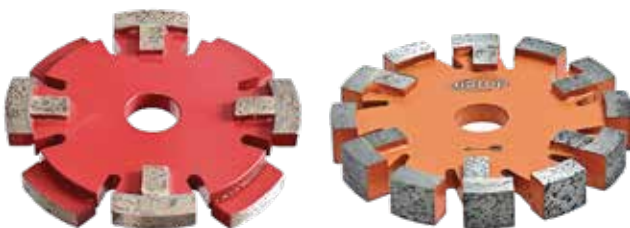
- To clean the mortar joint.
- Hard bond and medium bond available



ITEM	Inch		D X T	
				mm
STPT1260	5	.236	125	6
LTPT1564	6	.250	150	7
LTPT2010	8	.394	200	7

Zigzag Grooving blades / Laser welded / Dry or wet

- Able to cut or groove the width of 17mm by zigzag segments.
- Four kicker segments on both side for slope grooving.



ITEM	Diameter		Segment Thickness mm
	Inch	mm	
SWT125-14	5	125	7 x 2
SWT125-17	5	125	17

CRACK CHASER BLADES

- Crack chaser rout and widen cracks in both concrete and asphalt.
- Provide an ideal V groove for sealing preparation.

Crack Chaser / Laser welded / Dry



ITEM	D X T		Height mm
	Inch	mm	
CCL100-06	4 x .250	100 x 6.4	12
CCL100-12	4 x .500	100 x 12.0	12
CCL125-06	5 x .250	125 x 6.4	12
CCL125-12	5 x .500	125 x 12.0	12
CCL180-06	7 x .250	178 x 6.4	12
CCL180-12	7 x .500	178 x 12.0	12
CCL200-12	8 x .500	200 x 12.0	12

Zigzag crack chaser / Silver brazed / Dry or wet



ITEM	Diameter		Cutting width
	Inch	mm	
ZCB	5	125	7m-16m

U groove crack chaser / Laser welded / Dry



ITEM	D X T		Height mm
	Inch	mm	
UCL100-10	4 x .394	100 x 10.0	10

DRY BLADE

RESCUE BLADES

H



RESCUE BLADE / Vacuum brazed / Dry cutting

- In emergency you need to cut many different kinds of construction materials.
- With state of art technology of vacuum brazing, Diatop rescue blades can cut most of construction materials as all round player. Silicon carbide coating on the steel core makes smooth cutting.
- Enjoy the finest cut of Diatop Rescue blades.



With side protection

ITEM	D X T		Height mm
	Inch	mm	
DRHP 1824	7 x .095	178 x 2.4	5
DRHP 2326	9 x .100	230 x 2.6	5
DRHP 3032	12 x .102	300 x 3.2	5
DRHP 3532	14 x .125	350 x 3.2	5
DRHP 4032	16 x .125	400 x 3.2	5

* Standard arbor is 1"-20(25.4-20) with driving pin hole.

* Cutting materials : Cured concrete, reinforced concrete, prestressed concrete, concrete pile, brick, block, roof tile, porcelain tile, terrazzo, stone, FRP, PVC pipe, ductile iron, cast iron, rubber, waste tire, steel pipe, electric cable, fiber board, stucco, wood, plastics.



Without side protection

ITEM	D X T		Height mm
	Inch	mm	
DRH 1824	7 x .095	178 x 2.4	5
DRH 2326	9 x .100	230 x 2.6	5
DRH 3032	12 x .125	300 x 3.2	5
DRH 3532	14 x .125	350 x 3.2	5
DRH 4032	16 x .125	400 x 3.2	5

* Standard arbor is 1"-20(25.4-20) with driving pin hole.

* Cutting materials : Cured concrete, reinforced concrete, prestressed concrete, concrete pile, brick, block, roof tile, porcelain tile, terrazzo, stone, FRP, PVC pipe, ductile iron, cast iron, rubber, waste tire, steel pipe, electric cable, fiber board, stucco, wood, plastics.

H



DUCTILE BLADES

Vacuum brazed / Dry cutting

- Provides a fast, smooth cut of ductile iron pipe.
- Designed to eliminate the rough edge with silicon carbide electroplated on the core.
- Long life time of 50-100 abrasive blades.



ITEM	D X T		Height mm
	Inch	mm	
DDH 3032	12 x .125	300 x 3.2	5
DDH 3532	14 x .125	350 x 3.2	5
DDH 4032	16 x .125	400 x 3.2	5

* Standard arbor is 1"-20(25.4-20)DP

H



METAL BLADES

Vacuum brazed / Dry cutting

- Suitable for various metals.
- Side protection for fast cutting.
- Less spark
- Less noise
- Less heat



With Side Protection (GC coating)

ITEM	D X T		Height mm
	Inch	mm	
SBH 1522	5 x .080	125 x 2.2	5
SBH 1824	7 x .095	178 x 2.4	5
SBH 2326	9 x .100	230 x 2.6	5
SBH 3032	12 x .125	300 x 3.2	5
SBH 3532	14 x .125	350 x 3.2	5
SBH 4032	16 x .125	400 x 3.2	5

* Standard arbor for 5", 7" is 7/8"- 5/8"(22.23-15.875)

* Standard arbor for over 9" is 1"-20(25.4-20)

* Cutting materials : steel studs, iron pipe, copper, tubing, threaded rod, PVC pipe, metal pipe, steel angle pipe

GRINDING

GRINDING CUP WHEELS

HG



Single Row Grinding Cup / Dry

For removing flashing from concrete forms and smoothing concrete. 5/8-11 thread and 7/8-5/8 (22.23mm-15.875mm) available



ITEM	Diameter	
	Inch	mm
SRC100	4	100
SRC115	4 1/2	115
SRC125	5	125
SRC180	7	180

Double Row Grinding Cup / Dry

Effective in the process of concrete debarring and rough surface grinding. Smooth grinding and long life.



ITEM	Diameter	
	Inch	mm
DRC100	4	100
DRC115	4 1/2	115
DRC125	5	125
DRC180	7	180

R Segment Grinding Cup / Dry

Excellent performance of grinding concrete by rounded segments of Diatop original



ITEM	Diameter	
	Inch	mm
RSC100	4	100
RSC115	4 1/2	115
RSC125	5	125
RSC180	7	180

Semi Arrow Cup

New design segments for fast grinding



ITEM	Diameter	
	Inch	mm
SAC125	5	125
SAC175	7	175

* Thread : 22.23 (7/8"), M14

* Medium, Hard bond available

Wing Cup / Dry

Innovated design of wing type segment. Fast grinding by U groove in segment.

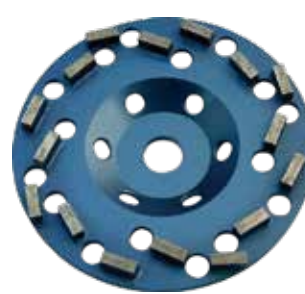


ITEM	Diameter	
	Inch	mm
WSC100	4	100
WSC125	5	125
WSC180	7	180

* Thread : M14, 5/8-11

Epoxy Cup / Dry

Suitable for removal of thin epoxy coating or urethane coating on the concrete floor.



ITEM	Diameter	
	Inch	mm
EPC100	4	100

* Thread: 22.2, M14, 5/8-11

GRINDING

GRINDING CUP WHEELS

Smooth Grinding Cup Wheel

Suitable for uneven concrete surface with rooftop segments. Big air holes for fast suction



ITEM	Diameter	
	Inch	mm
SGC125	5	125
SGC150	6	150
SCG180	7	180

* Arbor : 22.23mm, Flex, Hilti

Ring Segment Cup Wheel

Fast removing of thin coatings.



ITEM	Diameter		Grit
	Inch	mm	
RSGA125	5	125	20/30
RSGC125	5	125	30/40
RSGA180	7	180	20/30
RSGC180	7	180	30/40

* Thread : 22.23 (7/8), M14, 5/8-11

Arrow Segment Cup Wheel



ITEM	Diameter		No. of segment
	Inch	mm	
ASC125-5	5	125	5
ASC150-6	6	150	6
ASC180-6	7	180	6
ASC180-10	7	180	10

* Arbor : 22.23mm, M14

* Medium, Hard, Very hard bond available

* Coarse, Medium and Fine grit available

Bird foot Wheel

Fast grinding of hard concrete



ITEM	Diameter	
	Inch	mm
BFC125	5	125
BFC180	7	180

* Thread : M14, 5/8-11, 7/8(22.23)

Light Turbo Wheel

Grind uneven surface

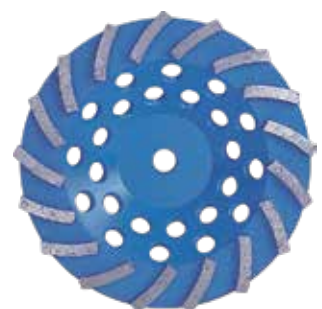


ITEM	Diameter	
	Inch	mm
BCW100	4	100
BCW125	5	125
BCW150	6	150
BCW180	7	180

* Thread : M14, 5/8-11", 7/8"(22.23mm)

Swirly Cup / Dry

Designed for longer life of grinding concrete surface.



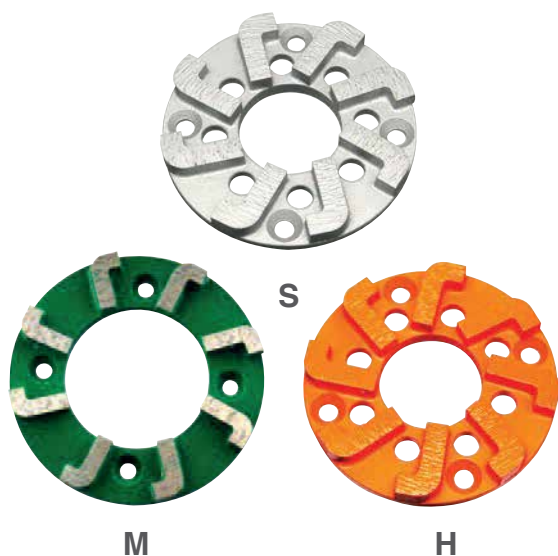
ITEM	Diameter		No. of segment
	Inch	mm	
SWC100-10	4	100	10
SWC100-13	4	100	13
SWC115-15	4 1/2	115	15
SWC125-18	5	125	18
SWC150-18	6	150	18
SWC180-12	7	180	12
SWC180-18	7	180	18

* Thread : M14, 5/8-11, 7/8(22.23)

GRINDING

FESTOOL GRINDING WHEELS

HG



J grinding wheels / Dry

- For Festool grinder.

ITEM	Diameter (mm)	Bond hardness	Material hardness
JGCS3	84	Soft	Hard
JGCM3	84	Medium	Medium
JGCH3	84	Hard	Soft
JGCS5	130	Soft	Hard
JGCM5	130	Medium	Medium
JGCH5	130	Hard	Soft



Dia-Abrasive cup wheel / Dry

- For soft abrasive concrete, fresh concrete.

ITEM	Diameter (mm)	Bond hardness	Bore (mm)
DAW5	130	Hard	22.23



Dia-Hard cup wheel / Dry

- For old cured concrete.
- To remove epoxy resin and paint.

ITEM	Diameter (mm)	Bond hardness	Bore (mm)
DHW5	130	Medium	22.23



Dia-Stone cup wheel / Dry

- For extremely hard concrete.

ITEM	Diameter (mm)	Bond hardness	Bore (mm)
DSW5	130	Soft	22.23



Floor grinding plate / Dry

Designed to give rough concrete surfaces the smooth finish in fastest time. To be used with floor grinders. Premium and Supreme grade are available.

ITEM	Diameter		No. of segment
	Inch	mm	
FG250-10	10	250	10
FG250-16	10	250	16
FG250-20	10	250	20
FG300-16	12	300	16
FG300-20	12	300	20

Bond

Hard / Medium / Soft

Grit

Coarse / Medium / Fine



Interchangeable grinding plate / Dry

You can reuse the steel body after wearing of diamond segment. Flexible adjustment of diamond segment number.

ITEM	Diameter		No. of segment
	Inch	mm	
EFG250-10	10	250	10
EFG250-16	10	250	16
EFG250-20	10	250	20



Arrow segment grinding plate / Dry

Designed to give rough concrete surfaces the smooth finish in fastest time. To be used with floor grinders. Premium and Supreme grade are available.

ITEM	Diameter		No. of segment
	Inch	mm	
ASFG10-08	10	250	8
ASFG10-10	10	250	10
ASFG10-12	10	250	12

* Medium, Hard, Very hard bond available.

* Coarse, Medium and Fine grit available.



Vane grinding plate / 10 seg / 20 seg / Dry

Powerful grinding

ITEM	Diameter		No. of segment
	Inch	mm	
VFG10-10	10	250	10
VFG10-20	10	250	20

GRINDING

DIAMOND GRINDING SHOES

Diamond Segment Shoe / Dry

- The most suitable metal diamond segment shoe for concrete floor with quality consistency.
- Fast grinding and long life.
- Diatop's unique sintering technology to maximize the performance.
- Precise process of powder weighing and special powder treatment by fast ball mill.
- Special sintering process of very soft bond.
- High tech sintering process of medium and hard bond.
- Exposed diamonds for easy start of operation.



Ultra hard concrete / Yellow

ITEM			Grit #	Segment spec L x T x H(mm)	Segment type
	Double	Single			
DUC18		SUC18	18/20	40 x 10 x 10	Rectangle
DUC25		SUC25	25/30	40 x 10 x 10	Rectangle
DUC30		SUC30	30/40	40 x 10 x 10	Rectangle
DUC60		SUC60	60/80	40 x 10 x 10	Rectangle
DUC120		SUC120	120/150	40 x 10 x 10	Rectangle
DUC250		SUC250	250/300	D20 x 10	Round



Very hard concrete / Gold

ITEM			Grit #	Segment spec L x T x H(mm)	Segment type
	Double	Single			
DVC18		SVC18	18/20	40 x 10 x 10	Rectangle
DVC25		SVC25	25/30	40 x 10 x 10	Rectangle
DVC30		SVC30	30/40	40 x 10 x 10	Rectangle
DVC60		SVC60	60/80	40 x 10 x 10	Rectangle
DVC120		SVC120	120/150	40 x 10 x 10	Rectangle
DVC250		SVC250	250/300	D20 x 10	Round
DVC400		SVC400	400/500	D20 x 10	Round



Hard concrete / Blue

ITEM			Grit #	Segment spec L x T x H(mm)	Segment type
	Double	Single			
DHC18		SHC18	18/20	40 x 10 x 10	Rectangle
DHC25		SHC25	25/30	40 x 10 x 10	Rectangle
DHC30		SHC30	30/40	40 x 10 x 10	Rectangle
DHC60		SHC60	60/80	40 x 10 x 10	Rectangle
DHC120		SHC120	120/150	40 x 10 x 10	Rectangle
DHC250		SHC250	250/300	D20 x 10	Round
DHC400		SHC400	400/500	D20 x 10	Round

GRINDING

DIAMOND GRINDING SHOES

FG



Medium concrete / Red



ITEM		Grit #	Segment spec L x T x H(mm)	Segment type
Double	Single			
DMC18	SMC18	18/20	40 x 10 x 10	Rectangle
DMC25	SMC25	25/30	40 x 10 x 10	Rectangle
DMC30	SMC30	30/40	40 x 10 x 10	Rectangle
DMC60	SMC60	60/80	40 x 10 x 10	Rectangle
DMC120	SMC120	120/150	40 x 10 x 10	Rectangle
DMC250	SMC250	250/300	D20 x 10	Round

Soft concrete / Black



ITEM		Grit #	Segment spec L x T x H(mm)	Segment type
Double	Single			
DSC18	SSC18	18/20	40 x 10 x 10	Rectangle
DSC25	SSC25	25/30	40 x 10 x 10	Rectangle
DSC30	SSC30	30/40	40 x 10 x 10	Rectangle
DSC60	SSC60	60/80	40 x 10 x 10	Rectangle
DSC120	SSC120	120/150	40 x 10 x 10	Rectangle
DSC250	SSC250	250/300	D20 x 10	Round

Very abrasive concrete / Orange



ITEM		Grit #	Segment spec L x T x H(mm)	Segment type
Double	Single			
DAC18	SAC18	18/20	40 x 10 x 10	Rectangle
DAC25	SAC25	25/30	40 x 10 x 10	Rectangle
DAC30	SAC30	30/40	40 x 10 x 10	Rectangle
DAC60	SAC60	60/80	40 x 10 x 10	Rectangle
DAC120	SAC120	120/150	40 x 10 x 10	Rectangle
DAC250	SAC250	250/300	D20 x 10	Round

Natural stone, terrazzo / Green



ITEM	Grit #	Segment spec L x T x H(mm)	Segment type
DNST30	30/40	40 x 10 x 10	Rectangle
DNST40	40/50	40 x 10 x 10	Rectangle
DNST60	60/80	D20 x 10	Round
DNST120	120/150	D20 x 10	Round
DNST250	250/300	D20 x 10	Round

GRINDING

PCD REMOVAL SHOES



PCD Shoes / Dry

- Removal of thick coating of epoxy, urethane painting and other coatings.
- PCD(Polycrystalline Diamonds) has superior hardness, high fracture strength and uniformed properties as well as excellent wear resistance and high thermal conductivity.
- Right direction(clockwise) and left direction(counter clockwise) available.

Two big PCD shoe with split PCD



- Free work on thick coating

ITEM	Spec (mm)	Direction
PSHSR	Φ13 x 6.5	Right
PSHSL	Φ13 x 6.5	Left

* Complement : Split PCD

* Extra steel base height : 10mm

Heavy duty PCD shoe with round diamond



ITEM	Spec (mm)	Direction
PHDTR	Φ13 x 6.5	Right
PHDTL	Φ13 x 6.5	Left

* Complement : TCT

High PCD on steel base / double



- Free work on thick coating

ITEM	Spec (mm)	Direction
PHPSR	Φ13 x 1/4	Right
PHPSL	Φ13 x 1/4	Left

* Extra steel base height : 8mm

Triple PCD shoe with split PCD



ITEM	Spec (mm)	Direction
PCTRR	Φ13 x 1/4	Right
PCTRL	Φ13 x 1/4	Left

* Complement : Split rhombus PCD

Sharp two PCD



- The sharp edge of PCD tips can scrap the stiff coatings easily.

ITEM	Spec (mm)	Direction
FSPCR	Φ13 x 1/4 x 5	Right
FSPCL	Φ13 x 1/4 x 5	Left

Small PCD shoe



- To remove thin mil and glue

ITEM	Spec (mm)	Direction
PSSR	3 x 1.5	Right
PSSL	3 x 1.5	Left

Split PCD shoe Rectangle / double



- Fast remove of thin coating

ITEM	Spec L x T x H(mm)
PSPD	40 x 10 x 10

Double 1/4 PCD shoe



with bar segment

ITEM	Spec (mm)	Direction
PDBR	Φ13 x 1/4	Right
PDBL	Φ13 x 1/4	Left

* Complement : Rectangle segment

GRINDING

PCD REMOVAL CUP WHEELS

HG



Small PCD cup wheel / Dry



- Suitable for thin coating of less 1mm.

ITEM	Diameter		PCD size mm	No. of PCD
	Inch	mm		
SPCC4-06	4	100	3 x 1.5	6
SPCC4-09	4	100	3 x 1.5	9
SPCC5-08	5	125	3 x 1.5	8
SPCC5-12	5	125	3 x 1.5	12
SPCC7-14	7	180	3 x 1.5	14
SPCC7-18	7	180	3 x 1.5	18

* Available arbor : 22.23mm (7/8")



Medium PCD cup wheel / Dry

ITEM	Diameter		PCD size mm	No. of PCD
	Inch	mm		
MPCC5-06	5	125	Φ13 x 1/6	6
MPCC7-10	7	180	Φ13 x 1/6	10

* For medium thick coating of 2~3mm.

* Available arbor : 22.23mm (7/8")



Big PCD cup wheel / Single row / Dry

ITEM	Diameter		PCD size mm	No. of PCD
	Inch	mm		
BPCS5-06	5	125	Φ13 x 1/4	6
BPCS7-06	6	180	Φ13 x 1/4	6 + 3TCT

* For heavy thick coating over 3mm.

* Available arbor : 22.23mm (7/8")



Big PCD cup wheel / Double row / Dry

ITEM	Diameter		PCD size mm	No. of PCD
	Inch	mm		
BPCD5-06	5	125	Φ13 x 1/4	6
BPCD7-08	7	180	Φ13 x 1/4	8

* Available arbor : 22.23mm (7/8")

CORE DRILL

XPRESS CORE DRILL BITS



XPRESS CORE DRILL BIT / Wet

- High performance diamond core drill bits and segments for fast drilling and long life.
- The new patterned diamond segments drill faster and have longer life.
- High efficiency to drill reinforced concrete and very hard concrete.
- 14" barrel length is standard.



XPRESS turbo core bits

ITEM	Diameter		Segment L x T x H(mm)	No. of Segments
	Inch	mm		
XCDB-051	2	51	24 x 3.0 x 10	5
XCDB-057	2 1/4	57	24 x 3.0 x 10	6
XCDB-060	2 3/8	60	24 x 3.0 x 10	6
XCDB-064	2 1/2	64	24 x 3.5 x 10	6
XCDB-070	2 3/4	70	24 x 3.5 x 10	7
XCDB-076	3	76	24 x 3.5 x 10	7
XCDB-083	3 1/4	83	24 x 3.5 x 10	7
XCDB-089	3 1/2	89	24 x 3.5 x 10	8
XCDB-102	4	102	24 x 3.5 x 10	9
XCDB-108	4 1/4	108	24 x 3.5 x 10	9
XCDB-114	4 1/2	114	24 x 3.5 x 10	10
XCDB-117	4 5/8	117	24 x 3.5 x 10	10
XCDB-127	5	127	24 x 3.5 x 10	11
XCDB-140	5 1/2	140	24 x 4.0 x 10	12
XCDB-152	6	152	24 x 4.0 x 10	13
XCDB-159	6 1/4	159	24 x 4.0 x 10	13
XCDB-178	7	178	24 x 4.0 x 10	14
XCDB-203	8	203	24 x 4.0 x 10	16
XCDB-229	9	229	24 x 4.0 x 10	17
XCDB-254	10	254	24 x 4.0 x 10	18
XCDB-305	12	305	24 x 4.5 x 10	20
XCDB-356	14	356	24 x 4.5 x 10	21
XCDB-406	16	406	24 x 5.0 x 10	22

* Other barrel length is upon request.

Bond selection

Hardness and reinforcing	Bond
Very hard aggregate with heavy reinforcing	SC
Hard aggregate with light reinforcing	MC
Asphalt, Block	HC

Thread: 1 1/4-7

CORE DRILL

WET CORE DRILL BITS

D



WET CORE DRILL BIT

High performance diamond core drill bits and segments for fast drilling and long life.

High efficiency to drill reinforced concrete and very hard concrete.

Premium, Supreme and Ultra quality available.

Other barrel length is upon request.



Bond selection

Hardness and reinforcing	Bond
Very hard aggregate with heavy reinforcing	SC
Hard aggregate with light reinforcing	MC
Asphalt, Block	HC

Thread

Bit Diameter	Type
3/4 - 1 1/2	5/8 -11
1 5/8 +	1 1/4-7

Rooftop core bits

ITEM	Diameter inch	mm	Segment L x T x H(mm)	No. of Segments
WRCD-025	1	25	15 x 3.0 x 7	3
WRCD-029	1 1/8	29	15 x 3.0 x 7	4
WRCD-032	1 1/4	32	15 x 3.0 x 7	4
WRCD-035	1 3/8	35	15 x 3.0 x 7	4
WRCD-038	1 1/2	38	15 x 3.0 x 7	5
WRCD-044	1 3/4	44	15 x 3.0 x 7	5
WRCD-048	1 7/8	48	15 x 3.0 x 7	5
WRCD-051	2	51	24 x 3.0 x 7	5
WRCD-057	2 1/4	57	24 x 3.0 x 7	6
WRCD-060	2 3/8	60	24 x 3.0 x 7	6
WRCD-064	2 1/2	64	24 x 3.5 x 7	6
WRCD-070	2 3/4	70	24 x 3.5 x 7	7
WRCD-076	3	76	24 x 3.5 x 7	7
WRCD-083	3 1/4	83	24 x 3.5 x 7	7
WRCD-089	3 1/2	89	24 x 3.5 x 7	8
WRCD-102	4	102	24 x 3.5 x 7	9
WRCD-108	4 1/4	108	24 x 3.5 x 7	9
WRCD-114	4 1/2	114	24 x 3.5 x 7	10
WRCD-117	4 5/8	117	24 x 3.5 x 7	10
WRCD-127	5	127	24 x 3.5 x 7	11
WRCD-140	5 1/2	140	24 x 4.0 x 7	12
WRCD-152	6	152	24 x 4.0 x 7	13
WRCD-159	6 1/4	159	24 x 4.0 x 7	13
WRCD-178	7	178	24 x 4.0 x 7	14
WRCD-203	8	203	24 x 4.0 x 7	16
WRCD-229	9	229	24 x 4.0 x 7	17
WRCD-254	10	254	24 x 4.0 x 7	18
WRCD-305	12	305	24 x 4.5 x 7	20
WRCD-356	14	356	24 x 4.5 x 7	21

Turbo roof top core bits

ITEM	Diameter inch	mm	Segment L x T x H(mm)	No. of Segments
WTCD-035	1 3/8	35	15 x 3.0 x 10	4
WTCD-038	1 1/2	38	15 x 3.0 x 10	5
WTCD-044	1 3/4	44	15 x 3.0 x 10	5
WTCD-048	1 7/8	48	15 x 3.0 x 10	5
WTCD-051	2	51	24 x 3.0 x 10	5
WTCD-057	2 1/4	57	24 x 3.0 x 10	6
WTCD-060	2 3/8	60	24 x 3.0 x 10	6
WTCD-064	2 1/2	64	24 x 3.5 x 10	6
WTCD-070	2 3/4	70	24 x 3.5 x 10	7
WTCD-076	3	76	24 x 3.5 x 10	7
WTCD-083	3 1/4	83	24 x 3.5 x 10	7
WTCD-089	3 1/2	89	24 x 3.5 x 10	8
WTCD-102	4	102	24 x 3.5 x 10	9
WTCD-108	4 1/4	108	24 x 3.5 x 10	9
WTCD-114	4 1/2	114	24 x 3.5 x 10	10
WTCD-117	4 5/8	117	24 x 3.5 x 10	10
WTCD-127	5	127	24 x 3.5 x 10	11
WTCD-140	5 1/2	140	24 x 4.0 x 10	12
WTCD-152	6	152	24 x 4.0 x 10	13
WTCD-159	6 1/4	159	24 x 4.0 x 10	13
WTCD-178	7	178	24 x 4.0 x 10	14
WTCD-203	8	203	24 x 4.0 x 10	16
WTCD-229	9	229	24 x 4.0 x 10	17
WTCD-254	10	254	24 x 4.0 x 10	18
WTCD-305	12	305	24 x 4.5 x 10	20
WTCD-356	14	356	24 x 4.5 x 10	21
WTCD-406	16	406	24 x 5.0 x 10	22

* Other barrel length is upon request.

* Standard barrel length is 14" (350mm)

CORE DRILL

CORE DRILL SEGMENTS

WET CORE SEGMENTS / Regular



ITEM	Diameter		Segment L x T x H(mm)
	Inch	mm	
WCS25	1 - 11/4	25 / 32	15 x 3.0 x 7
WCS35	1 3/8	35 / 45	15 x 3.0 x 7
WCS52	2 - 2 3/8	52 / 60	24 x 3.0 x 7
WCS60	2 1/2 - 2 3/4	60 / 70	24 x 3.5 x 7
WCS80	3 - 3 1/2	80 / 100	24 x 3.5 x 7
WCS107	4 - 5	107 / 130	24 x 3.5 x 7
WCS140	5 1/2 - 7	140 / 180	24 x 4.0 x 7
WCS180	8	180 / 200	24 x 4.0 x 7
WCS230	9 - 10	230 / 250	24 x 4.0 x 7
WCS300	12 - 14	300 / 350	24 x 4.5 x 7
WCS400	16 - 18	400 / 450	24 x 5.0 x 7
WCS500	20 - 24	500 / 600	24 x 5.5 x 7

WET CORE SEGMENTS / Turbo



ITEM	Diameter		Segment L x T x H(mm)
	Inch	mm	
WCT25	1 - 11/4	25 / 32	15 x 3.0 x 7
WCT35	1 3/8	35 / 45	15 x 3.0 x 7
WCT52	2 - 2 3/8	52 / 60	24 x 3.0 x 7
WCT60	2 1/2 - 2 3/4	60 / 70	24 x 3.5 x 7
WCT80	3 - 3 1/2	80 / 100	24 x 3.5 x 7
WCT107	4 - 5	107 / 130	24 x 3.5 x 7
WCT140	5 1/2 - 7	140 / 180	24 x 4.0 x 7
WCT180	8	180 / 200	24 x 4.0 x 7
WCT230	9 - 10	230 / 250	24 x 4.0 x 7
WCT300	12 - 14	300 / 350	24 x 4.5 x 7
WCT400	16 - 18	400 / 450	24 x 5.0 x 7
WCT500	20 - 24	500 / 600	24 x 5.5 x 7

Xpress turbo segment

- The new patterned diamond segments drill faster and have longer life.
- High efficiency to drill reinforced concrete and very hard concrete.



ITEM	Diameter		Segment L x T x H(mm)
	Inch	mm	
XRT50	2	50	24 x 3.0 x 10.0
XRT57	2 1/4	57	24 x 3.0 x 10.0
XRT60	2 3/8	60	24 x 3.5 x 10.0
XRT63	2 1/2	63	24 x 3.5 x 10.0
XRT70	2 3/4	70	24 x 3.5 x 10.0
XRT76	3	76	24 x 3.5 x 10.0
XRT83	3 1/4	83	24 x 3.5 x 10.0
XRT89	3 1/2	89	24 x 3.5 x 10.0
XRT102	4	102	24 x 3.5 x 10.0
XRT115	4 1/2	115	24 x 3.5 x 10.0
XRT127	5	127	24 x 3.5 x 10.0
XRT140	5 1/2	140	24 x 3.5 x 10.0
XRT152	6	152	24 x 3.5 x 10.0
XRT200	8	200	24 x 3.5 x 10.0
XRT230	9	230	24 x 4.0 x 10.0
XRT250	10	250	24 x 4.0 x 10.0
XRT200	12	200	24 x 4.5 x 10.0
XRT350	14	350	24 x 4.5 x 10.0
XRT400	16	400	24 x 5.0 x 10.0

Roof top segment

- Ideal to drill the hard surface of cured concrete with 45° tapered top segments for easy starting by reducing the cutting resistance.



ITEM	Diameter		Segment L x T x H(mm)
	Inch	mm	
RTS50	2	50	24 x 3.0 x 10.0
RTS57	2 1/4	57	24 x 3.0 x 10.0
RTS60	2 3/8	60	24 x 3.5 x 10.0
RTS63	2 1/2	63	24 x 3.5 x 10.0
RTS70	2 3/4	70	24 x 3.5 x 10.0
RTS76	3	76	24 x 3.5 x 10.0
RTS83	3 1/4	83	24 x 3.5 x 10.0
RTS89	3 1/2	89	24 x 3.5 x 10.0
RTS102	4	102	24 x 3.5 x 10.0
RTS115	4 1/2	115	24 x 3.5 x 10.0
RTS127	5	127	24 x 3.5 x 10.0
RTS140	5 1/2	140	24 x 3.5 x 10.0
RTS152	6	152	24 x 3.5 x 10.0
RTS200	8	200	24 x 3.5 x 10.0
RTS230	9	230	24 x 4.0 x 10.0
RTS250	10	250	24 x 4.0 x 10.0
RTS200	12	200	24 x 4.5 x 10.0
RTS350	14	350	24 x 4.5 x 10.0
RTS400	16	400	24 x 5.0 x 10.0

CORE DRILL

CORE DRILL SEGMENTS

V Slot roof top segment



ITEM	Diameter Inch	Diameter mm	Segment L x T x H (mm)
VSRT50	2	50	24 x 3.0 x 10.0
VSRT57	2 1/4	57	24 x 3.0 x 10.0
VSRT60	2 3/8	60	24 x 3.5 x 10.0
VSRT63	2 1/2	63	24 x 3.5 x 10.0
VSRT70	2 3/4	70	24 x 3.5 x 10.0
VSRT76	3	76	24 x 3.5 x 10.0
VSRT83	3 1/4	83	24 x 3.5 x 10.0
VSRT89	3 1/2	89	24 x 3.5 x 10.0
VSRT102	4	102	24 x 3.5 x 10.0
VSRT115	4 1/2	115	24 x 3.5 x 10.0
VSRT127	5	127	24 x 3.5 x 10.0
VSRT140	5 1/2	140	24 x 3.5 x 10.0
VSRT152	6	152	24 x 3.5 x 10.0
VSRT200	8	200	24 x 3.5 x 10.0
VSRT230	9	230	24 x 4.0 x 10.0
VSRT250	10	250	24 x 4.0 x 10.0
VSRT200	12	200	24 x 4.5 x 10.0
VSRT350	14	350	24 x 4.5 x 10.0
VSRT400	16	400	24 x 5.0 x 10.0

Ring segments



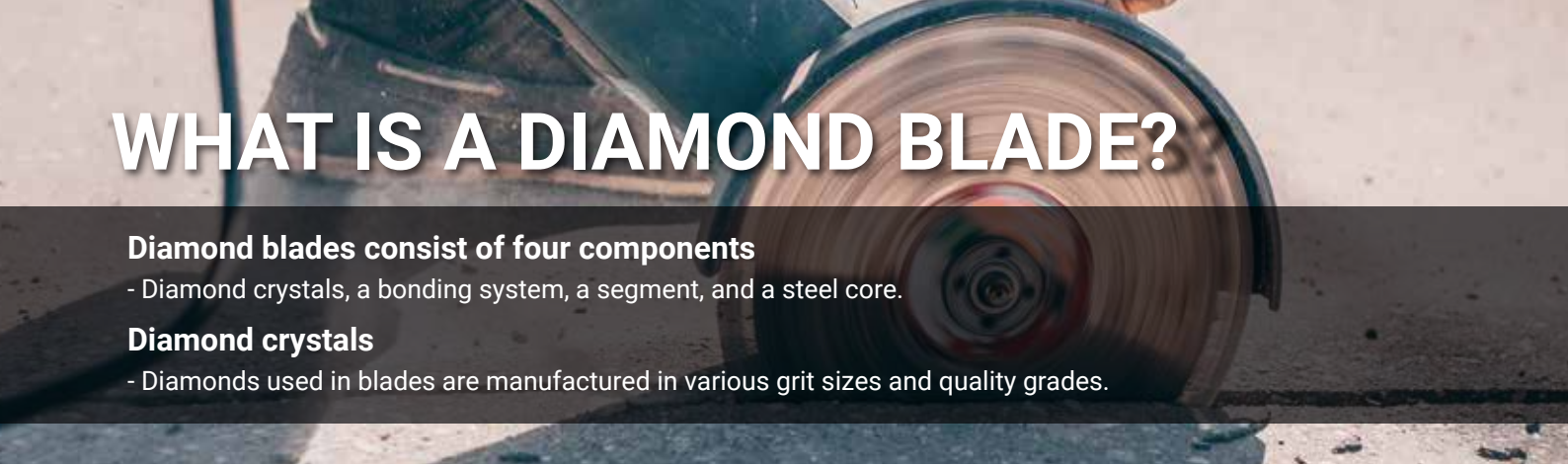
ITEM	Diameter mm	Segment Spec T x H (mm)
WCR10	10	2.0 x 7
WCR12	12	2.0 x 7
WCR14	14	2.0 x 7
WCR15	15	2.5 x 7
WCR16	16	2.5 x 7
WCR18	18	2.5 x 7
WCR20	20	2.5 x 7
WCR22	22	2.5 x 7
WCR24	24	2.5 x 7
WCR25	25	2.5 x 7
WCR26	26	2.5 x 7
WCR28	28	2.5 x 7
WCR30	30	2.5 x 7
WCR32	32	2.5 x 7
WCR35	35	2.5 x 7
WCR38	38	2.5 x 7
WCR40	40	2.5 x 7
WCR45	45	2.5 x 7
WCR50	50	2.5 x 7

EZ ring segment with shoe

Very easy for brazing



ITEM	Diameter mm	Segment Spec T x H
EZR10	10	2.0 x 7
EZR12	12	2.0 x 7
EZR14	14	2.0 x 7
EZR16	16	2.5 x 7
EZR18	18	2.5 x 7
EZR20	20	2.5 x 7
EZR22	22	2.5 x 7
EZR24	24	2.5 x 7
EZR25	25	2.5 x 7
EZR28	28	2.5 x 7
EZR30	30	2.5 x 7
EZR32	32	2.5 x 7
EZR35	35	2.5 x 7
EZR38	38	2.5 x 7



WHAT IS A DIAMOND BLADE?

Diamond blades consist of four components

- Diamond crystals, a bonding system, a segment, and a steel core.

Diamond crystals

- Diamonds used in blades are manufactured in various grit sizes and quality grades.

Bonding matrix

Diamond crystals are held in place by metal bonding matrix.

The bonding matrix plays several vital roles:

- * Disperses and supports the diamonds
- * Provides controlled wear while allowing diamond protrusion
- * Prevents diamond pull-out
- * Acts as a heat sink
- * Distributes impact and load as the diamond grind the cutting surface

Metal bonds

The mixture of diamond crystals and bonding matrix metal powder is hot pressed into segments.

These segments are wider than the core to provide clearance during cutting.

These segments are specifically designed to wear at an appropriate rate for the aggregate being cut.

Diamond concentration in the segment can vary from low to very high, depending on specific requirements (e.g., lower horsepower saws generally require low concentration blades for best overall performance, high horsepower saws generally require high concentration blades for best overall performance.)

Steel core

The segments are attached to a premium steel alloy core.

The steel core is precision-made, steel disc which have slots. The slots(also called "gullets") provide faster cooling by allowing water or air to flow between the segments.

Most blade cores are tensioned at the factory so the blade will run straight at cutting speeds.

Proper tension also allows the blade to remain flexible enough to bend slightly under cutting pressure and snap back into position. An arbor hole is precisely bored in the center:

How do diamond blades work?

Diamond blades don't really "cut" like a knife... they grind. During the manufacturing process, individual diamond crystals are exposed on the outside edge and sides of the diamond segments or rim. These exposed surface diamonds do the grinding work. The metal "matrix" locks each diamond in place. Trailing behind each exposed diamond is "bond tail" which helps support the diamond.

While the blade rotates on the arbor shaft of the saw, the operator pushes the blade into the material. The blade begins to cut through the material, while the material begins wearing away the blade. Exposed surface diamonds score the material, grinding it into a fine powder.

Embedded diamonds remain beneath the surface.

Exposed diamonds crack or fracture as they cut, breaking down into even smaller pieces. Hard, dense materials cause the diamonds to fracture even faster.

The materials also begin to wear faster, allowing new layers of diamond exposure to continue cutting.

This continuous grinding and wearing process continues until the blade is "worn out".

Sometimes a small, unusable part of the segments or rim may remain.

It is important to understand that the diamond blade and the material must work together (or interact) for the blade to cut effectively.

In order for a diamond blade to work properly, the diamond type, quality and grit size must be suited for the saw and the material. The metal matrix must also be matched to the material to be cut.

HOW TO CHOOSE THE RIGHT DIAMOND BLADE

1st The price

Which is the most important factor to you? The initial price of the blade or the cost per cut? For smaller jobs, or occasional use, a low priced blade of our Standard quality may be preferable. For larger jobs, or regular use, a higher priced blade will actually be less expensive to use because it will deliver the lowest cost per cut. We recommend Premium quality or Supreme quality. For really big jobs, the lowest possible sawing cost per foot is usually much more important than the initial price. You may choose Supreme or Ultra quality.

Diatop has a grading system of quality level to help you identify the different performance levels of blades.

2nd The type and horsepower of the saw

What kind of saw or grinder is being used? What is the horsepower? What is the RPM? Masonry saw, concrete saw, high speed saw, small power hand saw, right angle grinder, floor grinder? Blades should be matched with the saw and horsepower for best results from blade and saw. Diamond blade manufacturers design products to be run at specific speeds.

The table in page 66 describes both typical operating speeds for best performance and maximum safe speeds that should not be exceeded.

Blades that are to be used on high speed cut-off saws have to be rated at higher RPMs. All high speed handheld saw blades are rated at the appropriate higher RPMs.

3rd The material to be cut

Correctly identifying the material you are going to cut is the most important factor when choosing a blade. It directly affects the cutting speed and the life of the blade.

Most materials will fall into the following categories: hard, medium hard, medium soft, soft. For example in masonry, hard would be granite or quarry tile. In concrete it would be cured concrete with hard aggregate. Soft would be light weight block or asphalt. When cutting hard materials, choose a softer matrix. The softer bond will release the diamond chips at the point of maximum utilization without the danger of holding the diamond long enough to be overexposed to heat at the cutting point. If the overexposed diamond is not sloughed off in time, it will glaze over and

stop cutting. The glazed over surface will stop the entire sloughing off process and the blade will stop cutting because there are no new diamond chips being exposed at the cutting edge. The diamond blade will be useless even though the segment has not been completely utilized.

When cutting soft materials, select a harder matrix that will hold the diamond chips longer so they can be more productive. If you use a soft bond with soft concrete, the bonding matrix will release the diamond chips before they have reached maximum utilization and good diamond cutting chips will be lost prematurely.

4th Wet or dry cutting

Choosing wet or dry cutting may be a matter of user preference or job requirement.

When using a power hand tool such as a power hand saw, it is not safe to use water because of the electrical power source. For wet cutting concrete saws is usually preferred because you can cut deeper when using water as a coolant.

For tile and masonry saws, either wet or dry cutting can be used. For high speed hand held saws, dry blades are more popular, but they are often used wet to control dust.

Wet blades MUST be used with water. Dry blades may be used either dry or wet as the job or equipment allows.

5th The importance of segment height

Total segment heights may be misleading because of nondiamond bearing segment bases necessary for the laser welding or brazing process. But the higher segments last longer. If you want to save the total cost for larger jobs you should choose longer segment height. You can choose proper segment height according to the job size.

6th Variables affect performance

Many other factors affect the blade's performance and consequent value. Consider the diamond size, concentration and quality, the hardness of the bond, the cutting power of the saw, and how well the blade spec is matched to the material being cut. Please refer to the chart of page 68.

THE MATERIALS TO BE CUT

WHAT TO KNOW ABOUT THE MATERIAL YOU CUT

CONCRETE

- When cutting concrete, several factors influence your choice of diamond blades. These include
 - * Compressive strength.
 - * Steel reinforcing (rebar).
 - * Hardness of the aggregate.
 - * Green or cured concrete.
 - * Size of the aggregate.
 - * Abrasiveness of the aggregate.
 - * Type of sand.

Age

The length of curing time after concrete is poured greatly affects the way a diamond blade will interact with it during cutting. Curing can be affected by weather (temperature, moisture and time of year) and the composition (admixtures, aggregate and sand).

Green Concrete

Concrete is typically in its green state for 6 to 48 hours after it is poured. In this early state, the sand is not completely bonded with the mortar and the concrete doesn't reach full hardness. When cutting green concrete, the sand loosens more readily, and flows more freely in the slurry, and produces much more abrasion on a diamond blade.

Undercut protection is critical when cutting green concrete to prevent excessive wear on the blade core at the segment joint. Green concrete sawing is common when cutting control joints for highways, runways, driveways, industrial flooring and other new construction applications.

Cured Concrete

Cured concrete is typically set at least 48 hours.

The sand is completely bonded with the mortar and the concrete reaches full hardness.

Concrete slabs may vary greatly in compressive strength, measured in pounds per square inch (PSI).

Compressive strength

Concrete Hardness	PSI	Typical Application
Very hard	8,000 or more	Nuclear plants
Hard	6,000 - 8000	Bridges, Piers
Medium	4,000 - 6000	Roads, Sidewalks, Patios
Soft	3,000 or less	Parking lots

Hardness of the aggregate

There are many different types of rock used as aggregate.

Hardness often varies even within the same classification of rock. For example, granite varies in hardness and friability.

The Mohs'scale is frequently used to measure hardness. Values of hardness are assigned from one to ten.

A substance with a higher Mohs'number scratches a substance with a lower number - higher Mohs'scale numbers indicate harder materials. The scale below shows how some common minerals fall into the Mohs'scale range.

Mosh' Range	Description	Aggregate
8 - 9	Very Hard	Flint, Chert, Trap Rock ,Basalt, River pebble
6 - 7	Hard	Hard River Rock, Hard Granite, Basalt, Quartz, Trap Rock.
4 - 5	Medium Hard	Medium hard Granite, Some River Rock.
3 - 4	Medium	Dense Limestone, Sandstone, Dolomite, Marble.
2 - 3	Medium Soft	Soft Limestone.

Aggregates

Aggregates are the granular fillers in cement that can occupy as much as 60% to 75% of total volume. They influence the way both green and cured concrete perform. Aggregates can be naturally occurring minerals, sand and gravel, crushed stone or manufactured sand. The most desirable aggregates used in concrete are triangular or square in shape; with hard, dense, well graded and durable properties. The average size and composition of aggregates greatly influence the cutting characteristic and selection of the diamond blade.

Large aggregates tend to cause blades to cut slower, and smaller aggregates allow the blades to cut faster.

Difficulty	Aggregate Sizes
Harder to cut (Blade wears slower)	1 - 1/2" or more 1 - 1/2" to 3/4", 3/4" to 3/8"
Easier to cut (Blade wears faster)	Pea gravel (Less than 3/8")

Mohs' scale			
1 - Talc	4 - Fluorite	7 - Quartz(SiO2)	10 - Diamond
2 - Gypsum	5 - Apatite	8 - Topaz	
3 - Calcite	6 - Feldspar	9 - Corundum(Al2O3)	

Aggregate hardness is one of the important factors when cutting concrete. Because hard aggregate dulls diamond grit more quickly, segment bonds generally need to be softer when cutting hard aggregate. This allows the segment to wear normally and bring new sharp diamond grit to the surface. Softer aggregate will not dull diamond grit as quickly, so harder segment bonds are needed to hold the diamond in place long enough to use their full potential. Most aggregates fall into the 2 to 9 range on the Mohs' scale. Some commonly used aggregates measure this way on the Mohs'scale.

Type of sand

Sand is part of the aggregate mix, and determines the abrasiveness of concrete. "Small aggregate" is usually sand. Sand can either be sharp(abrasive) or round(nonabrasive). To determine the sharpness of sand, you need to know where the sand is from. Crushed sand and bank sand are usually sharp; river sand is usually round.

Steel reinforcement

Further strengthening and structural integrity of concrete is accomplished by inserting concrete Reinforcing Steel Bars(Rebar), Steel Wire, Strand of Wire, Meshing into the concrete. It costs more to cut concrete that contains reinforcing steel because cutting rates are slower and blade life is reduced.

If the cross-sectional area of concrete is 1 % steel, the blade life will be about 25% shorter than if no steel were present. Concrete with 3 % steel can reduce blade life as much as 75%.

Standard reinforcing bars

Heavy Rebar: #6 Rebar every 12"on center or 2 Mats of #4 Rebar every 12"on center.

Medium Rebar: #4 Rebar every 12"on center.

Light Rebar: Wire Mesh, single mat.

Metric Size	Diameter (mm)	Imperial Size	Diameter (inch)	Metric Size	Diameter (mm)	Imperial Size	Diameter (inch)
10	9.5	#3	.375	22	22.2	#7	.875
13	12.7	#4	.500	25	25.4	#8	1.000
16	15.9	#5	.625	29	28.7	#9	1.128
19	19.1	#6	.750	32	32.3	#10	1.270

ASPHALT

Hot Mix Asphalt(HMA) is a mixture of Asphalt Cement (a petroleum based "glue" that comprises less than 8% by weight of the total pavement mixture and aggregates of various sized stones, dust, hard insert materials and sand). Asphalt does not cure as concrete does, and once spread and rolled, it can be drilled almost immediately.

Unlike cured concrete, sand in asphalt never bonds as firmly, and the slurry created when sawing will be extremely abrasive. A bond matrix similar to cutting green concrete and steel cores undercutting protection are important factors when undertaking asphalt cutting operations.

Some unique factors should be observed when cutting asphalt, hard & large sized aggregates in the asphalt will cause the blade to cut slower. The greater the aggregate sand ratio, the faster the blade will cut, but total footage may decrease.

It is common to cut through the asphalt layer into the sub-base. Generally, the sub-base contains high contents of very abrasive materials such as sand and dirt. This undesirable situation causes rapid wear of the diamond blade. Chunks or broken up asphalt to be cut often attracts dirt and sand fillers within the cracks. This, too, will make the asphalt more abrasive and affect the life of the diamond blade.

Brick and Block

Concrete block tends to consistently have soft, abrasive qualities while brick tends to be hard and less abrasive.

There are a large variety of brick types on the market, each designed and manufactured to provide certain qualities. The degree of hardness is mostly determined by the clay mixture, method of manufacture and the firing temperature.

Generally, brick and block are softer and more abrasive than ceramic tile and stone.

Stone

Natural stone comes in a variety of hardnesses

Hard

<<<<< · · >>>>>

Soft

Granite Travertine Marble Slate Flagstone Sandstone Limestone

Ceramic Tile

Ceramic tile is typically on the higher range of the hardness scale although there are some differences between each type based on clay mixture, manufacturing processes and firing temperature.

A common concern when cutting tile is chipping, because of the applications for interior and exterior. For this reason, diamond blades with continuous rims, closely spaced segments or turbo segments are often popular choices.

CUTTING DEPTH AND SPEED

MAXIMUM BLADE CUTTING DEPTHS AND OPERATING SPEEDS

Concrete saw blades

Diameter inch	mm	Cutting Depth inch	mm	Recommended Operating Speed(RPM)	Maximum Safe Speed(RPM)
12	300	3 5/8	92	3024	5065
14	350	4 5/8	117	2592	4365
16	400	5 5/8	143	2268	3820
18	450	6 5/8	168	2016	3365
20	500	7 5/8	194	1814	3055
24	600	9 5/8	244	1512	2550
26	660	10 5/8	270	1396	2350
30	760	11 3/4	300	1120	2040
36	910	14 3/4	375	1008	1700

High speed saw blades

12	300	4	100	4300	6300
14	350	5	125	4300	5400
16	400	6	150	3700	4700

Wall saw blades

18	450	6 1/2	165	1500	3000
24	600	9 1/2	240	1450	2250
30	760	12 1/2	317	1400	1800
36	910	15 1/2	394	1300	1500

Masonry saw blades

14	350	5	125	2550	3900
18	450	7	178	2300	3000
20	500	8	200	2300	2900

Tile saw blades

6	150	1 3/4	45	6050	10175
7	178	2 1/4	57	5175	8725
8	200	2 3/4	70	4500	7650
9	230	3 1/4	83	4025	6800
10	250	3 3/4	95	3625	6125

Power hand blades

4	100	1	25	9075	15000
4 1/2	115	1 1/4	30	8065	13300
5	125	1 1/2	40	7250	12000
7	178	2 1/2	65	5175	8725
8	200	3	75	5180	8730
9	230	3 1/4	83	4540	7640

VARIABLES WHICH AFFECT PERFORMANCE

Variables	Condition	Cutting Speed	Blade Life
Bond hardness	Harder	Slower	Longer
	Softer	Faster	Shorter
Diamond Quality	Lower	Slower	Shorter
	Higher	Faster	Longer
Diamond Grit size	Coarser	Faster	Longer
	Finer	Slower	Shorter
Diamond Concentration	Lower	Faster	Shorter
	Higher	Slower	Longer
Segment Thickness	Thinner	Faster	Shorter
	Thicker	Slower	Longer
Horsepower	Lower	Slower	Longer
	Higher	Faster	Shorter
Blade RPM	Lower	Faster	Shorter
	Higher	Slower	Longer
Water Flow	Lower	Faster	Shorter
	Higher	Slower	Longer
Cutting Depth	Shallow	Faster	Longer
	Deep	Slower	Shorter
Material Hardness	Harder	Slower	Longer
	Softer	Faster	Shorter
Abrasive ness	More	Faster	Shorter
	Less	Slower	Longer
Aggregate Size	Larger	Slower	Shorter
	Smaller	Faster	Longer
Steel Reinforcement	Less	Faster	Longer
	More	Slower	Shorter

* Based on 9,500 SFPM (Surface Feet Per Minute)

The general optimum performance range for cutting concrete and masonry products is $\pm 10\%$.

For hard, dense materials such as stone and tile, the optimum performance speed is 10-25% less than the speeds shown left. Blade shaft speeds (RPMs at no load) for most tools will be higher than the recommended operating speeds shown left.

Under normal sawing conditions, the actual blade shaft speed or the tool will slow down under load, and should fall within the optimum speed range.

** This speed RPM represents the maximum safe speed in revolutions per minute at which each blade can be used. Before using any blade, make sure the blade shaft speed of the tool is within the maximum safe-limit of that blade.

Safety Guidelines

Safety is absolutely important for the power saw operator, his co-workers and people of the public in the general vicinity. The tougher the blade, the less likely it is to fly apart at high speed when under tough cutting conditions. Diamond segments flying at very high speed can easily hurt people. Anything that can be done to reduce the chance of fatal failure of the diamond blade should be done. Please keep the safety guidelines.

DRY CUTTING SAFETY GUIDELINES

1. Do check the mounting flanges to be sure that they are equal or correct diameter.
2. Do check that the blade is correct for the material being cut.
3. Do ensure that the arrow on the blade corresponds with the direction of rotation of machine spindle.
4. Do ensure that the blade is in balance and running true. A blade which is out of balance means increased wear and possible destruction of the saw. Ensure that the blade is concentric to within 0.50mm.
5. Do ensure that the machine bearings and spindle are not worn, or blade life will be reduced.
6. Do ensure the blade cover is installed during operation.
7. Do use the blade with a gentle reciprocating motion, especially when cutting hard materials and cut in the direction of the arrow.
8. Do avoid tilting the blade when cutting.
9. Do only use machines which have an approved safety guard.
10. Do remove the diamond blade from the machine during transit to prevent accidental damage.
11. Do inspect blades frequently to detect cracks or undercutting of the steel core and segments which could lead to segment loss.
12. Do always wear appropriate personal protective equipment including head, ear and eye protection plus gloves and safety footwear.
13. Do ensure fingers and other appendages are clear of saw path.
14. Don't dry cutting except with a blade specifically designated for dry cutting by the manufacturer.
15. Don't make long continuous cuts with a dry diamond blade. Allow the blade to cool by turning in air every few minutes.
16. Don't use your blade on metals or thermoplastics or other unsuitable materials.
17. Don't apply strong pressure and force to your diamond blade through the cut. The weight of the machine will suffice. Increased pressure means increased wear.
18. Don't let excessive heat be generated at the cutting edge of the blade.
19. Don't attempt to cut curves or radii.
20. When cutting pieces which must be held near the blade, use push-stick for your hand to push sample.

WET CUTTING SAFETY GUIDELINES

1. Do ensure adequate water supply to both sides of the blade.
2. Do ensure that the blade cuts parallel to the wheel axis.
3. Do follow the manufacturers' recommended pulley size and operating speed for specific blade diameter.
4. Do tighten drive belts to ensure full available power.
5. Do use drive pin if fitted to the machine.
6. Do operate with blade guard in place and properly secured.
7. Don't force the blade on blade shaft or mount blade on undersized spindle.
8. Don't use paper washers to pack out the clamp plates.
9. Don't force the blade into the material. Allow the blade to cut at its own speed.
10. Don't operate machine with damaged or open blade guard.

BLADE TROUBLE SHOOTING

1. Segment loss / 2. Segment cracks / 3. Blade wobbles /
4. Core cracks / 5. Blade core undercutting / 6. Out of round blade wear /
7. Arbor hole out of round / 8. Uneven segment wear /
9. Core warping / 10. Blade will not cut

1. SEGMENT LOSS - Continuous dry cutting

- **Overheating due to inadequate supply of coolant(water or air).**

Wet cutting Provide adequate water flow to both sides of the blade. Look for spray tube blockages. Look for temporary loss of water due to equipment running over water feed hoses. Always support the water feed hoses that cross traffic lanes.

Dry Cutting Periodically allow blades to run out of the cut. The blade will cool in a few seconds so that sawing may continue.

- **Core worn thin as a result of undercutting by abrasive fines generated during cutting.**

If generated fines are highly abrasive, wear resistant cores should be used to retard undercutting. When wet cutting, use sufficient water to flush fines out of cut.

2. SEGMENT CRACKS

- **Blade is too hard for material being cut.**
- **Excessive force to start sawing.**

Use a blade with a softer bond.

Use the saw without any strong force.

3. BLADE WOBBLES

- **Blade mounted on a damaged or worn machine.**

Check for damaged or worn bearings, bent or worn blade spindle. Also check flanges to make sure they are clean, flat, and of the diameter recommended by the manufacturer.

- **Blade being run at improper operating speed (RPM).**

Make certain that the blade shaft is turning at the proper RPM to match the manufacturer's recommended speed of the blade.

- **Blade core is out of tension. Saw blades are tensioned by the manufacturer to rotate true when run at their designed speed. Loss of tension can be caused by operating at excessive speed, damage due to impact or dropping or from overheating of the core.**

Do not use a blade that is out of tension, contact saw blade manufacturer or supplier.

- **Blade bent.**

Do not use a bent saw blade, contact manufacturer or supplier.

4. CORE CRACKS

- **Blade wobbling due to operating at too high an RPM, due to blade loss of tension or blade core worn**

Check for damaged or worn bearings, bent or worn blade spindle. Also check flanges to make sure they are clean, flat, and of the diameter recommended by the manufacturer.

5. BLADE CORE UNDERCUTTING

- **Abrading or wearing away of the steel center faster than the diamond segment. (Highly abrasive fines are being generated during cutting.)**

If generated fines are highly abrasive, wear- retardant cores should be used. Wet Cutting-use sufficient water to flush fines out of cut.

6. OUT OF ROUND BLADE WEAR

- **Worn blade shaft bearing on saw machine.**

Install new blade shaft bearing or blade shaft as required. Refer to manufacturer's service manual.

- **Engine not properly tuned on saw machine, causing "hunting" or engine surging.**

Tune engine.

- **Blade spindle worn. A groove may have been scored on the spindle as a result of previous operation.**

Blade spinning on the spindle. / Replace worn blade shaft.

7. ARBOR HOLE OUT OF ROUND

- **Blade collar is not properly tightened.**

Tighten the shaft nut with a wrench to make certain that the blade is secured.

- **Blade is not properly mounted.**

Make certain the blade is mounted on the proper shaft diameter before tightening shaft nut.

Make sure that drive pin is in the pin hole.

8. UNEVEN SEGMENT WEAR

- **Insufficient water in wet cutting.**

Flush out water system and check flow and distribution to both sides of blade.

- **Saw is misaligned.**

Check saw head alignment and shaft alignment.

9. CORE WARPING - If blade has been warped (dark blue color) it is damaged beyond repair. Discontinue use.

- **Blade core has been overheated.**

Wet cutting provide proper amount of water to both sides of blade. Check to make sure water to both sides of blade. Check to make sure water supply is producing sufficient water and that no blockages occur in water lines.

Dry Cutting periodically allow the blade to run out of the cut. The blade will cool in a few seconds so that sawing may continue.

- **Unequal pressure on flanges.**

Flanges should be identical in diameter and the recommended size.

- **Machine blade shaft RPM does not match blade RPM.**

Use blade with proper RPM to match machine blade shaft RPM.

10. BLADE WILL NOT CUT

- **Blade is too hard for material being cut. (Improper blade specification.)**

Consult blade manufacturer or supplier for the proper blade specification for the material being cut.

- **Blade has become dull, probably as a result of being used on too hard material.**

Dress or sharpen by cutting softer abrasive material to expose diamonds.

If continual dressing is required, this would indicate that the blade specification is too hard for the material being cut.

- **Failure to initially break in new blade on specific material being cut.**

Allow blade to sharpen itself on the material to be cut when first placing it on the saw.

This is the proper way to break in a blade. Do not force the blade into the cut as this will generally aggravate the problem.

- **Insufficient power to permit blade to cut properly.**

Use adequate horsepower for cutting application and/or use correct voltage at motor.

Tighten belts in accordance with machine maintenance instructions.

- **Dry cutting blades will become dull as a result of overheating and diamond rim or segments will "mushroom" or melt and deform.**

Discontinue use.



DIAMOND CORE DRILLING

Core drilling Techniques & Core Drill Safety Precautions

Diamond core drilling reinforced concrete is both an art and discipline, requiring patience, structural appreciation, a mechanical aptitude, and considerable fitness.

The basics for successful core drilling are having a rigidly set up drill rig, diamond core bits with adequate clearances on the outside diameter and inside diameters, constant water flow, and the right speed range and power for the bit.

Core drilling Techniques

The performance of any diamond core bit depends heavily on the use of proper drilling techniques. Although drilling conditions and materials may vary, following specific guidelines ensure faster drilling speed and longer bit life.

1. Secure the core drill to the work surface so that there is no movement in the drill that would allow the bit to bind in the hole.
2. Level the drill rig by use of the base leveling screws, and a small level attached to the column permanently or by a magnetic strip on the level.
This procedure will insure a perpendicular hole.
3. Use a sufficient supply of water to ensure that hole is constantly being flushed of abrasive cuttings.
4. Slowly lower the bit into cut so that there is no skidding or lateral movement of the drill bit.
5. Exert steady downward pressure on the bit while drilling.
Do not force the bit into the material.
6. Do not stop the flow of water or the rotation of the bit as long as the bit is in the hole.
7. If the drilling rate decreases, check the core bit. The slower penetration generally means that segments are dull and need to be reconditioned. It is important that the diamond segments keep their sharpness.
8. When your bit encounters a steel rebar, relax pressure about 1/3 and allow the bit to cut at its own rate. Do not push the bit. Some operators turn the water down after exiting the steel to sharpen the bit. If you engage in this practice, don't forget to turn the water back up once the bit is sharpened.
9. When drilling high PSI concrete or concrete with very hard aggregate (ie. river rock, flint rock, etc.), the bit will sometimes glaze over. To open or redress the bit, do one of the following;
 - Decrease water about 1/2 for a few minutes and as the bit starts to increase speed, gradually increase the water until the flow is back to the original state.
 - Pour masonry sand into the serf, and then follow above directions.
 - Add a sandblast media such as "Black Beauty" to the serf and follow the above directions.
 - Drill the bit into a cement block, soft vitrified Grinding wheel or cinder block. Repeat the procedure until the diamond is open again.
10. When drilling is finished, turn the water down very low and back the core bit out of the hole with the motor running.

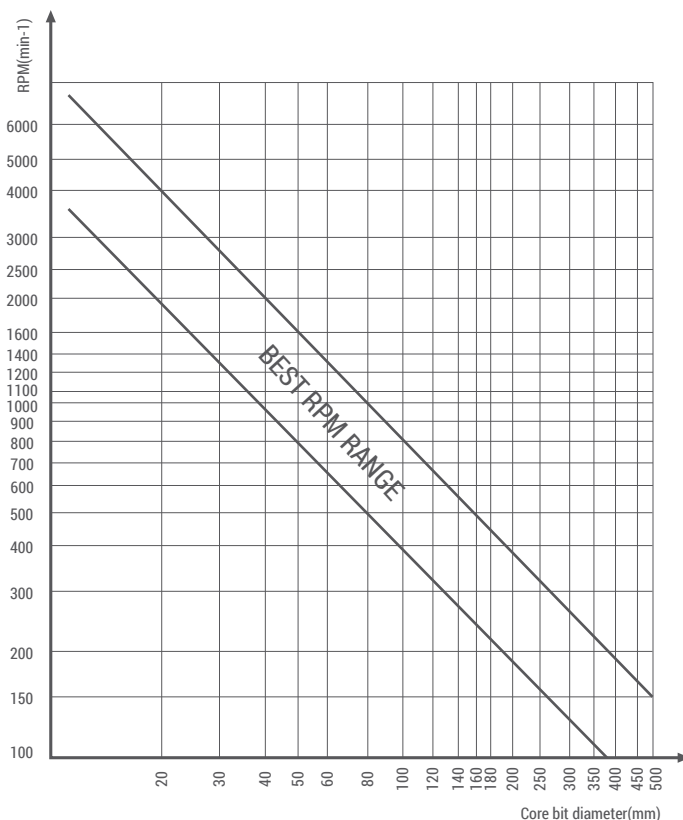
CORE DRILL SAFETY PRECAUTIONS

1. In most cases, core drilling requires the use of water. Properly ground the core drill, as the use of an electrical tools in wet areas can be hazardous.
2. The three-pronged plug on the power cord of the motor or the extension cord must be plugged into a grounded electrical outlet of the appropriate voltage.
3. The core drill must be securely fastened to the intended work surface(wall, deck, etc.), using anchor bolts,vacuum pad or jack screw.
4. Use extreme caution when drilling through floors. Check for electrical conduit.
5. Provide protection for all personnel and materials below the areas being drilled.

Drilling speed, Trouble shooting

Recommended drilling speeds for diamond core bit

Diameter		Minimum RPM	Maximum RPM
inch	mm		
3/8	10	2000	7630
1/2	13	1940	5450
5/8	16	1880	4770
3/4	19	1820	3810
7/8	22	1790	3470
1	25	1730	3050
1 - 1/8	29	1590	2540
1 - 1/4	32	1490	2380
1 - 1/2	38	1250	2000
1 - 3/4	44	1062	1700
1 - 7/8	48	1000	1600
2	51	920	1470
2 - 1/2	64	740	1220
3	76	612	980
4	102	470	750
5	127	376	600
6	152	310	500
7	178	270	430
8	203	240	380
10	254	190	300
12	304	160	250
14	356	140	220



CORE DRILL TROUBLE SHOOTING

• Excessive wear of diamond segments

- Cause** Insufficient irrigation.
- Remedy** Correct the water flow.
- Cause** Insufficient speed of rotation.
- Remedy** Correct the speed of rotation.
- Cause** Excessive speed of advance.
- Remedy** Reduce the speed of advance.
- Cause** Material more abrasive than expected.
- Remedy** Use another harder diamond specification.

• Segment cracking and loss of segments

- Cause** Bit is too hard for material being drilled.
- Remedy** Use softer bit if possible. Increase motor RPM.
- Cause** Machine setup is not rigid.
- Remedy** Tighten anchor, check vacuum system.
- Cause** Start-up too brutal.
- Remedy** Always start drilling gently.

• Barrel cracking

- Cause** Too much feed pressure.
- Remedy** Back off on pressure.
- Cause** Segment too hard for material being drilled.
- Remedy** Use bit with softer segment.

• Belled barrel

- Cause** Too much feed pressure.
- Remedy** Back off on feed pressure.

• Jamming of the core bit

- Cause** Loose drilling machine.
- Remedy** Secure the drilling machine firmly.
- Cause** Broken core of concrete.
- Remedy** Tighten the anchor bolt.
- Cause** Reinforcing steel in the hole.
- Remedy** Realigning.
- Cause** Lack of water.
- Remedy** Supply sufficient water and work the core free without force.
- Cause** Loss of side clearance of segment
- Remedy** Check the side clearance of the segment.
If it is too little, change the bit.

DIATOP DIAMOND PRODUCTS

DIATOP Diamond tools for surface preparation



Universal shoe



Husqvarna EZ change shoe



Husqvarna Redi-lock shoe



Scanmaskin shoe



Lavina shoe



Heavy duty double PCD



PCD with bar Husqvarna



Husqvarna T-Rex PCD



Triple PCD with round diamond



Split PCD



Big PCD cup



8 seg disc



10 seg disc



Arrow seg disc



Triple big PCD disc



Enduro



Polimate



Grande



Super transitional



Hybrid turbo



Diaflush



DiaShine R



Enduro Diaclean pad



DiaShine X



Vivace grinding pad

PARTICIPATION OF TRADE SHOW



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