



Diamond Solutions

marble workshop 2024



ADW

Diamond Solutions



Marble Workshop

Engineered stones and Compact sintered surfaces appeared as a true revolution in the stone industry.

The environment benefits, the product uniformity and the wide range of colours and formats available makes it more and more popular and remains in high demand.



ADW has developed a full range of specialized diamond tools to work efficiently this new and very particular type of products, really different from natural stones.



Diamond Solutions

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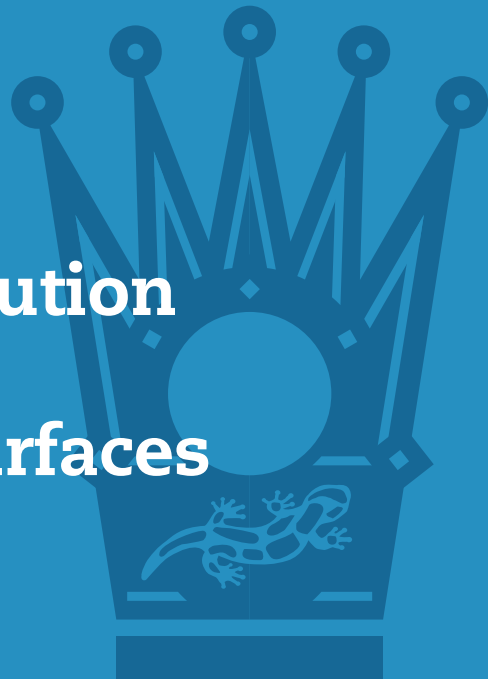


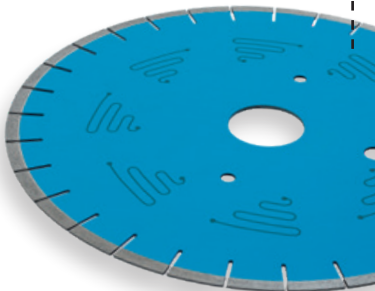
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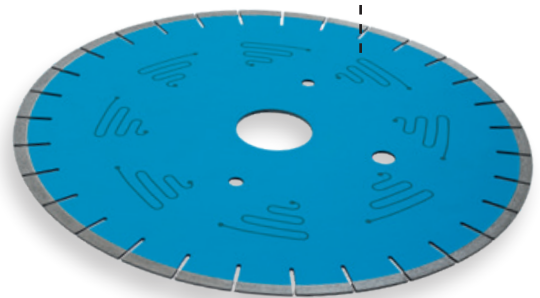
Bridge & CNC Saw Blades



The biggest revolution in Cutting Ultra Compact Surfaces



- Extra high cutting speed, even with low RPM
 - Anti-vibration Silent steel core
 - Working noise reduction
 - Perfect Finishing
 - Minimal cutting effort = Lower energy consumption
- 



Ultracompact Surfaces

iKon V25 Silent Plus



CODE	Ø	TYPE	X	H
17092.ST00	300	SILENT PLUS	10	60
17093.ST00	350	SILENT PLUS	10	60
17094.ST00	400	SILENT PLUS	10	60
17095.ST00	450	SILENT PLUS	10	60

50 m/s Recommended

Ø	RPM
300	3.200
350	2.700
400	2.400
450	2.100

Feed Speed

12 mm slabs

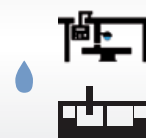
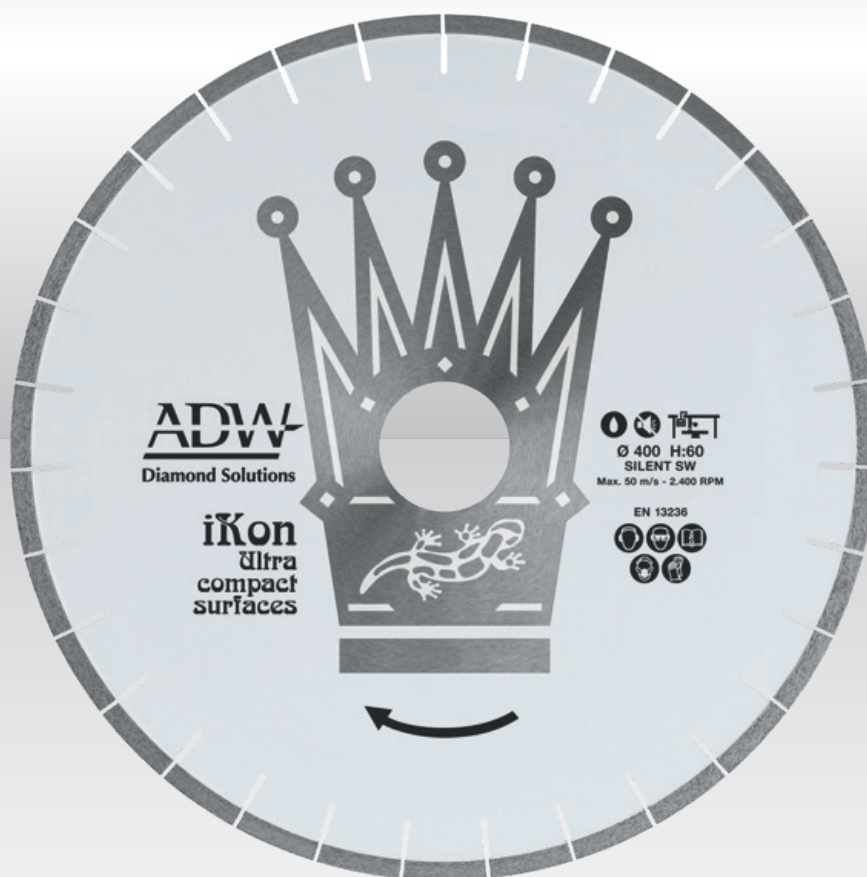
1,5 m/min

20 mm slabs

1,2 m/min

Ultracompact Surfaces

iKon V25 Silent SW



CODE	Ø	TYPE	X	H
17127.ST00	300	SILENT SW	10	60
17128.ST00	350	SILENT SW	10	60
17129.ST00	400	SILENT SW	10	60
17130.ST00	450	SILENT SW	10	60
17131.ST00	500	SILENT SW	10	60

50 m/s Recommended

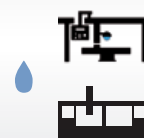
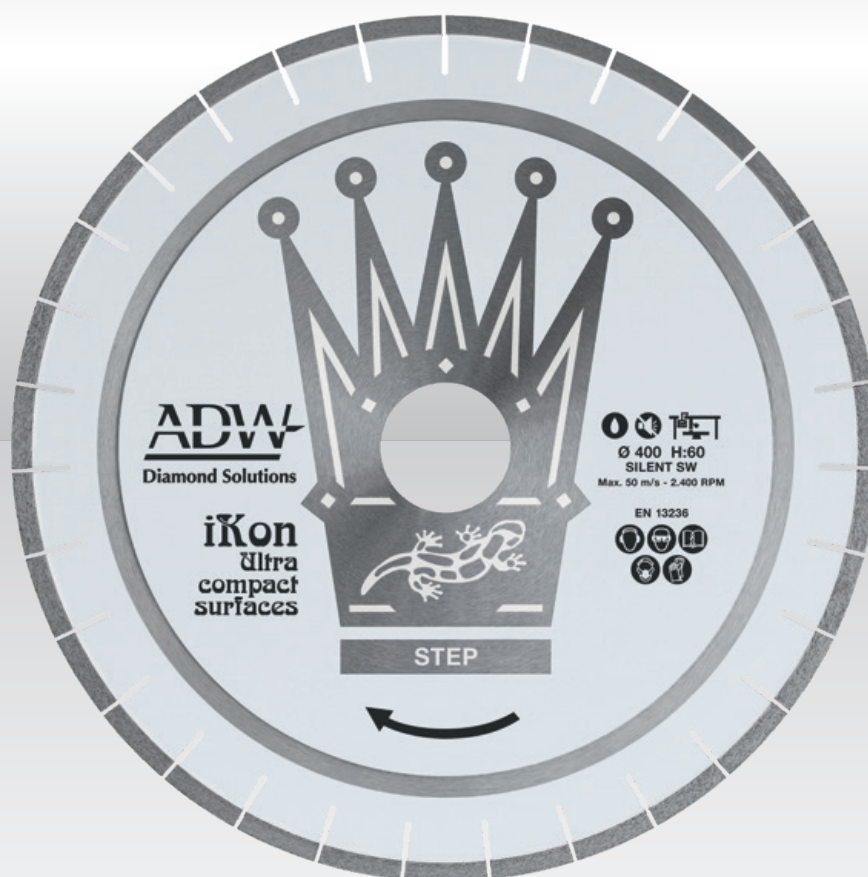
Ø	RPM
300	3.200
350	2.700
400	2.400
450	2.100
500	1.900

Feed Speed

12 mm slabs	20 mm slabs
1,5 m/min	1,2 m/min

Ultracompact Surfaces

iKon V25 Silent SW Step



CODE	Ø	TYPE	X	H
17261.ST00	300	SILENT SW STEP	10	60
17196.ST00	350	SILENT SW STEP	10	60
17197.ST00	400	SILENT SW STEP	10	60
17262.ST00	450	SILENT SW STEP	10	60

50 m/s Recommended

Ø	RPM
300	3.200
350	2.700
400	2.400
450	2.100

Feed Speed

12 mm slabs

3,0 m/min

20 mm slabs

2,0 m/min

Multi-Materials

JOKER

One blade for all materials

High speed and excellent cutting finish quality



CODE	Ø	TYPE	X	H	45 m/s Recommended	
					Ø	RPM
16658.ST00	350	Silent	10	60	350	2.450
16660.ST00	400	Silent	10	60	400	2.100
16661.ST00	450	Silent	10	60	450	1.900
16662.ST00	500	Silent	10	60	500	1.700

Feed Speed

MATERIAL	FEED SPEED
Ultracompact Surfaces	Up to 2,5 m/min.
Natural Quartzite	Up to 3,0 m/min.
Marble	Up to 4,0 m/min.
Quartz Stone	Up to 6,0 m/min.
Granite	Up to 6,0 m/min.

CERAMICUT



45 m/s Recommended

CODE	Ø	TYPE	X	H
16507.ST00	180	CRM-1	10	22,2
16507.ST01	180	CRM-2	10	22,2
16508.ST01	200	CRM-2	10	25,4
16407.ST01	250	CRM-2	10	25,4
15505.ST00	300	CRM-1	10	25,4 / 60
15505.ST01	300	CRM-2	10	25,4 / 60
14890.ST00	350	CRM-1	10	60
14890.ST01	350	CRM-2	10	60
14891.ST01	400	CRM-2	10	60

Ø	RPM
180	3.000
200	3.000
250	3.000
300	2.900
350	2.300
400	2.000

Ceramic and Porcelain

PS.0

Multi-blade machines



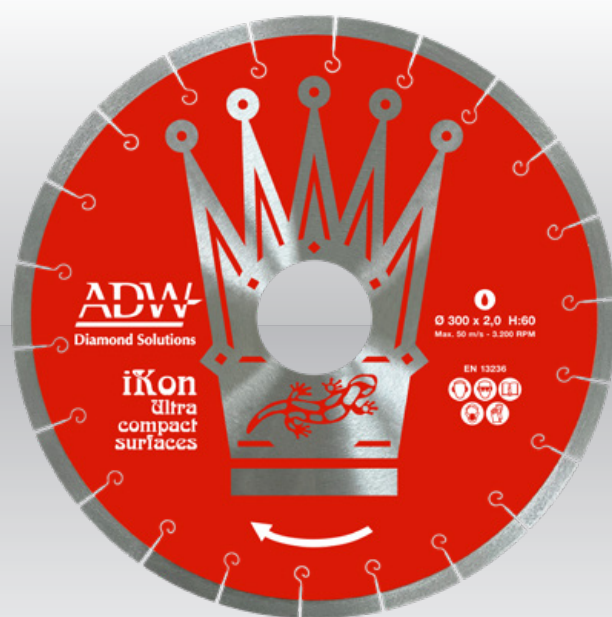
Ø	THICKNESS	X	H	GRIT	BOND
300	1,8	10	60	D151	Extra Soft
300	2,0	10	60	D151	Extra Soft
300	2,2	10	60	D151	Extra Soft
300	2,4	10	60	D151	Extra Soft

Ø	THICKNESS	X	H	GRIT	BOND
300	1,8	10	60	D181	Extra Soft
300	2,0	10	60	D181	Extra Soft
300	2,2	10	60	D181	Extra Soft
300	2,4	10	60	D181	Extra Soft

Ø	THICKNESS	X	H	GRIT	BOND
300	1,8	10	60	D213	Extra Soft
300	2,0	10	60	D213	Extra Soft
300	2,2	10	60	D213	Extra Soft
300	2,4	10	60	D213	Extra Soft

V25 CERAM

Multi-blade machines



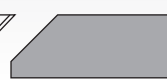
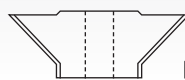
Ø	THICKNESS	X	H	GRIT	BOND
300	1,8	10	60	One Grit	Soft
300	2,0	10	60	One Grit	Soft
300	2,2	10	60	One Grit	Soft
300	2,4	10	60	One Grit	Soft

Ceramic Profiling

ROUGHING WHEEL



MITTERING WHEEL



CODE	Ø	GRIT	X	H
MPRO-179/36	150	Coarse	15	50

CODE	Ø	GRIT	X	H
16080.NE00	140	Coarse	24	50

HALF BULLNOSE WHEELS



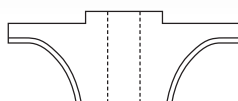
Coarse
Segmented



Medium
Laser cutting



Fine
Continuous



CODE	Ø	GRIT	RADIUS	H
16036.NE00	140	Coarse	12	50
16037.NE02	140	Medio	12	50
16038.NE04	140	Fino	12	50

CODE	Ø	GRIT	RADIUS	H
16039.NE00	140	Coarse	15	50
16040.NE02	140	Medio	15	50
16041.NE04	140	Fino	15	50

Granite - Engineered Quartz Stone

JUMBO FAST

Extra high cutting speed - Excellent cutting finish quality

Positioned Diamonds Technology DOCTO by ADW



45 m/s Recommended

CODE	Ø	TYPE	X	H
17309.ST00	300	Docto Silent	20	60
17191.ST00	350	Docto Silent	20	60
17249.ST00	400	Docto Standard	20	60
17192.ST00	400	Docto Silent	20	60
17251.ST00	450	Docto Standard	20	60
17202.ST00	450	Docto Silent	20	60
17252.ST00	500	Docto Standard	20	60
17203.ST00	500	Docto Silent	20	60
17245.ST00	600	Docto	20	60
17246.ST00	600	Docto Silent	20	60

Ø	RPM
300	2.850
350	2.450
400	2.150
450	1.900
500	1.700
600	1.450

Feed Speed

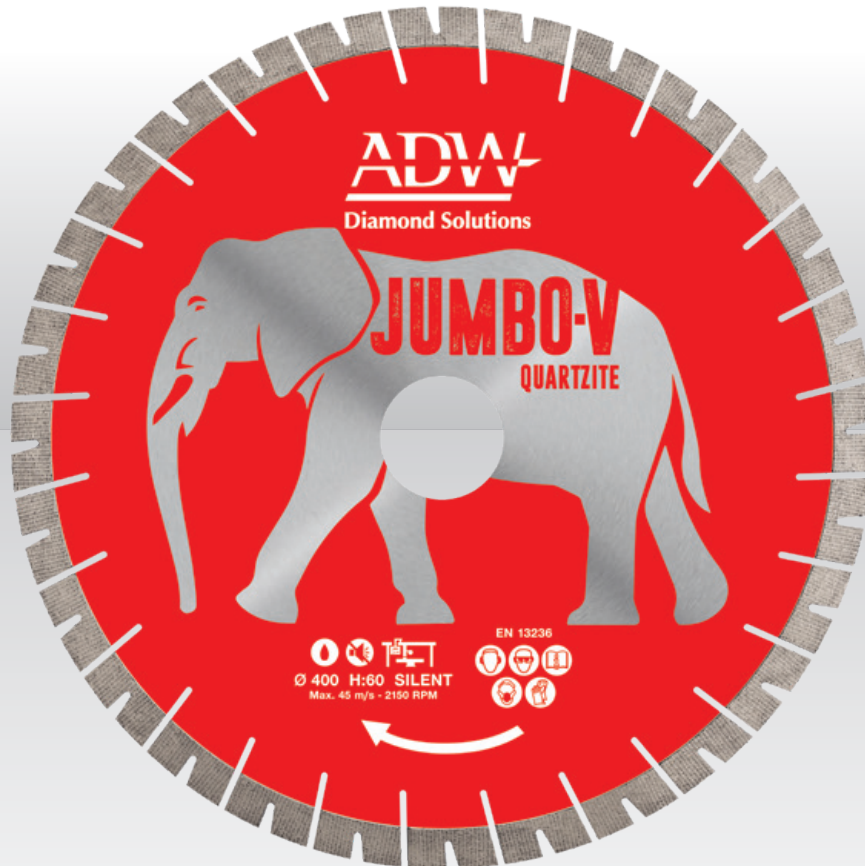
MATERIAL	FEED SPEED
Granite	Up to 10 m/min.
Quartz Stone	Up to 12 m/min.

Granite - Quartzite - Engineered Quartz Stone

JUMBO-V Special for Quartzite

Extra high cutting speed - Excellent cutting finish quality

Positioned Diamonds Technology DOCTO by ADW



					32 m/s	45 m/s	
					Quartzite	Granite - Quartz	
CODE	Ø	TYPE	X	H	Ø	RPM	RPM
17259.ST00	350	Docto Silent	20	60	350	1.700	2.450
17260.ST00	400	Docto Silent	20	60	400	1.500	2.150
17271.ST00	450	Docto Silent	20	60	450	1.300	1.900

Feed Speed

MATERIAL	FEED SPEED
Natural Quartzite	Up to 5 m/min.
Granite	Up to 10 m/min.
Quartz Stone	Up to 12 m/min.

BOXER FAST

Extra high cutting speed - Excellent cutting finish quality

Positioned Diamonds Technology DOCTO by ADW



CODE	Ø	TYPE	X	H	45 m/s Recommended	
					Ø	RPM
17263.ST00	350	Docto Standard	15	60	350	2.450
17216.ST00	350	Docto Silent	15	60		
17264.ST00	400	Docto Standard	15	60	400	2.150
17217.ST00	400	Docto Silent	15	60		

Feed Speed

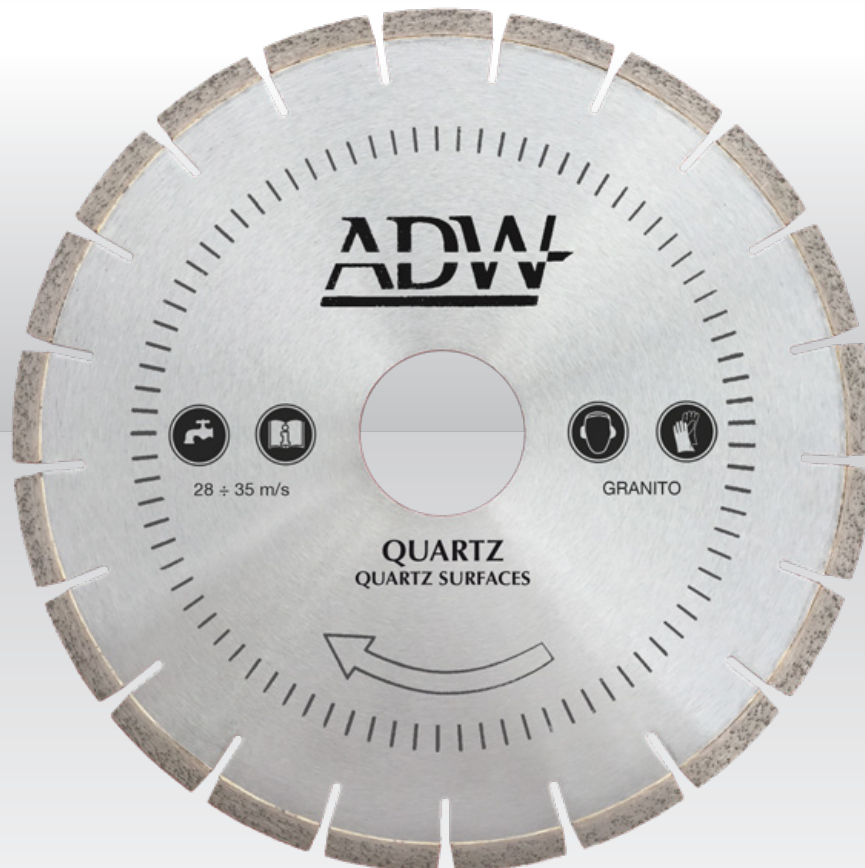
MATERIAL	FEED SPEED
Natural Quartzite	Up to 5 m/min.
Granite	Up to 10 m/min.
Quartz Stone	Up to 12 m/min.

Granite - Engineered Quartz Stone

QUARTZ

10 mm. model

For machines with manual feed



35 m/s Recommended

CODE	Ø	TYPE	X	H
15385.NE00	300	Standard	10	60
15386.NE00	300	Silent	10	60
15387.NE00	350	Standard	10	60
10615.NE00	350	Silent	10	60
15388.NE00	400	Standard	10	60
15389.NE00	400	Silent	10	60

Ø	RPM
300	2.200
350	1.900
400	1.700

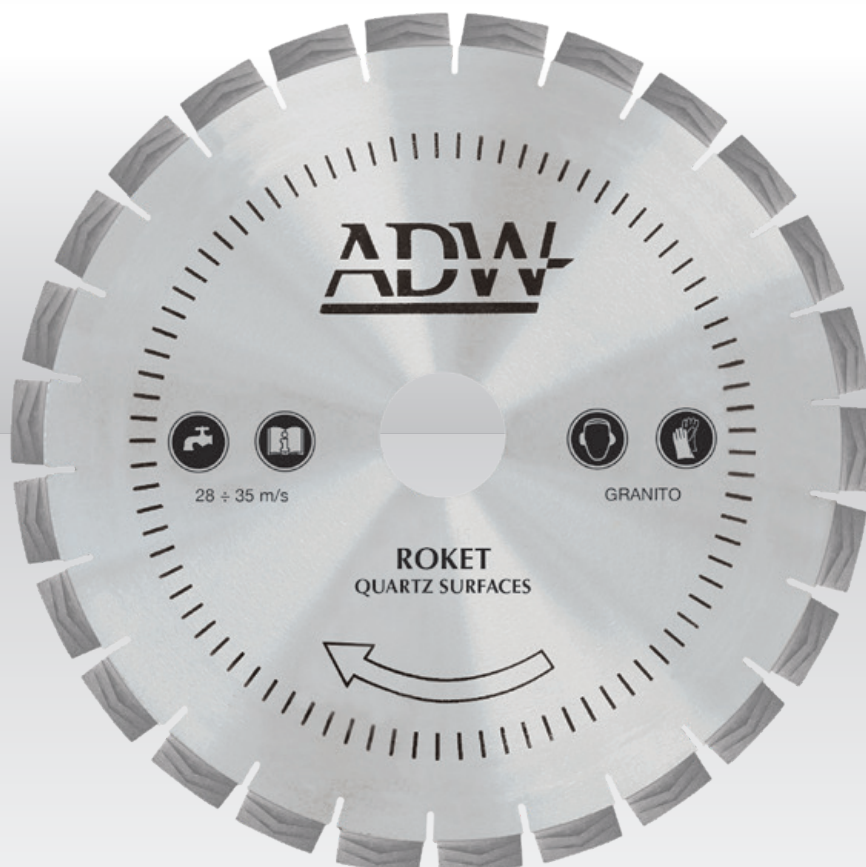
Feed Speed

MATERIAL	FEED SPEED
Granite	Up to 3 m/min.
Quartz Stone	Up to 5 m/min.

Granite - Engineered Quartz Stone

ROKET

High cutting speed
For machines with low RPM



CODE	Ø	TYPE	X	H	35 m/s Recommended	
					Ø	RPM
15290.ST00	350	Silent	15	60	350	1.900
15292.ST00	400	Silent	15	60	400	1.700
15294.ST00	450	Silent	15	60	450	1.500

Feed Speed

MATERIAL	FEED SPEED
Granite	Up to 3 m/min.
Quartz Stone	Up to 5 m/min.

TITAN VQ-29

High cutting speed



32 m/s Recommended

CODE	Ø	TYPE	X	H
15496.ST00	625	Standard	20	60
17291.ST00	625	Silent	20	60
17193.ST00	725	Standard	20	80
17292.ST00	725	Silent	20	80
17194.ST00	800	Standard	20	80
17293.ST00	800	Silent	20	80
14672.ST02	850	Standard	20	80
14673.ST01	900	Standard	20	100
14673.ST03	900	Silent	20	100

Ø	RPM
625	1.000
725	830
800	775
850	730
900	690

Marble - Limestones

EH-8 MARMOFAST

High speed and excellent cutting finish quality



45 m/s Recommended

CODE	Ø	TYPE	X	H
16920.ST00	300	Standard	8	60
16921.ST00	300	Silent	8	60
16922.ST00	350	Standard	8	60
16923.ST00	350	Silent	8	60
16924.ST00	400	Standard	8	60
16925.ST00	400	Silent	8	60
16926.ST00	450	Standard	8	60
16927.ST00	450	Silent	8	60
16928.ST00	500	Standard	8	60
16929.ST00	500	Silent	8	60
16930.ST00	600	Standard	8	60
16931.ST00	600	Silent	8	60
16932.ST00	625	Standard	8	60
16933.ST00	700	Standard	8	80
16934.ST00	725	Standard	8	80

Ø	RPM
300	2.900
350	2.450
400	2.150
450	1.900
500	1.700
600	1.450
625	1.400
700	1.250
725	1.200

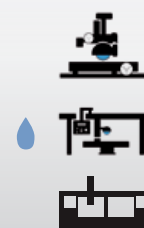
Feed Speed

MATERIAL	FEED SPEED
Marble	Up to 3 m/min.
Limestones	Up to 4 m/min.

Marble - Limestones

EH-10 MARMOFAST

High performance



45 m/s Recommended

CODE	Ø	TYPE	X	H	Ø	RPM
17272.ST00	300	Standard	10	60	300	2.900
17273.ST00	300	Silent	10	60		
17274.ST00	350	Standard	10	60	350	2.450
17275.ST00	350	Silent	10	60		
17276.ST00	400	Standard	10	60	400	2.150
17277.ST00	400	Silent	10	60		
17278.ST00	450	Standard	10	60	450	1.900
17279.ST00	450	Silent	10	60		
17280.ST00	500	Standard	10	60	500	1.700
17281.ST00	500	Silent	10	60		
17282.ST00	600	Standard	10	60	600	1.450
17283.ST00	600	Silent	10	60		
17284.ST00	625	Standard	10	60	625	1.400
17285.ST00	625	Silent	10	60		
17303.ST00	700	Standard	10	80	700	1.250
17304.ST00	725	Standard	10	80	725	1.200
17305.ST00	800	Standard	10	80	800	1.100
17306.ST00	825	Standard	10	80	825	1.050
17307.ST00	850	Standard	10	80	850	1.000
17308.ST00	900	Standard	10	80	900	950

Feed Speed

MATERIAL	FEED SPEED
Marble	Up to 2 m/min.
Limestones	Up to 3 m/min.



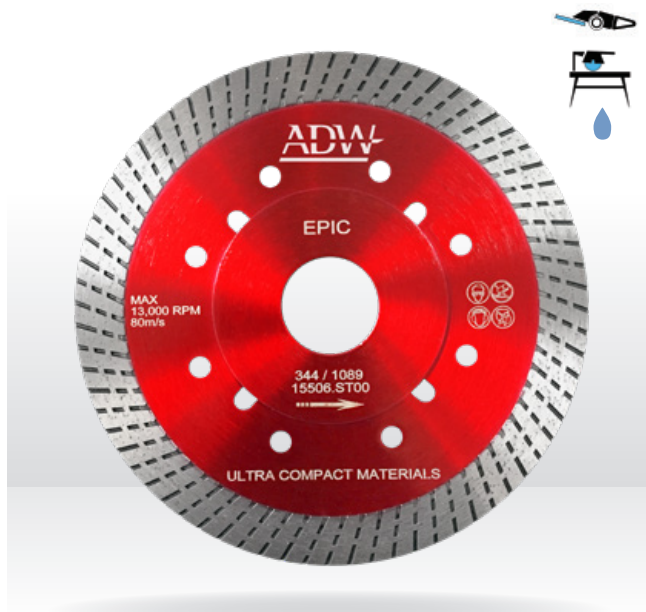
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Handheld Sawing



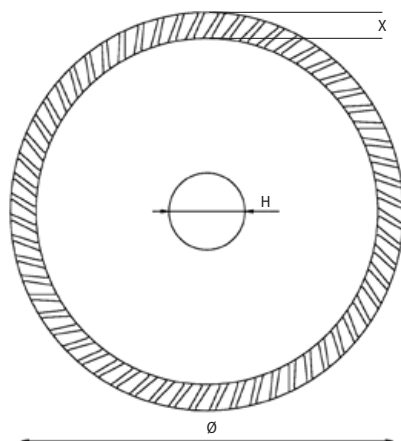
Ultracompact Surfaces

EPIC



CODE	Ø	X	H
15870.ST00	105	10	22,2
15506.ST00	115	10	22,2
15507.ST00	125	10	22,2
16879.ST00	150	10	22,2
16474.ST00	180	10	22,2
16411.ST00	200	10	25,4
15700.ST00	230	10	22,2
16412.ST00	250	10	25,4
16413.ST00	300	10	25,4

Ø125 - Available with Flange M-14 & 5/8"

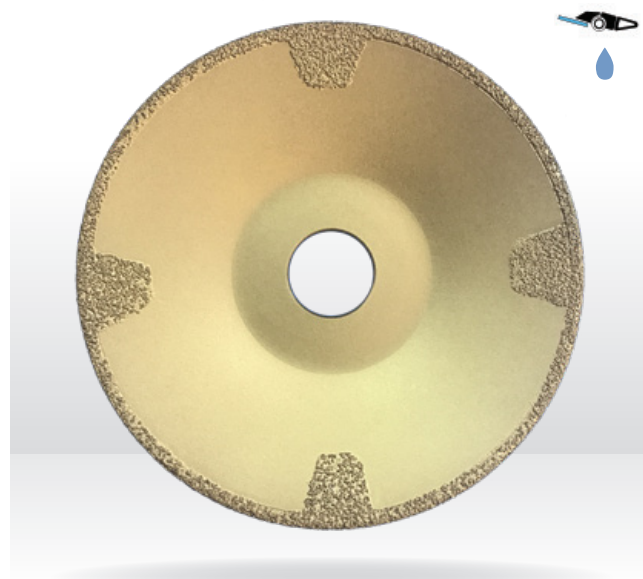


SLIM



CODE	Ø	X	H
15524.ST00	115	7,5	22,2
15525.ST00	125	7,5	22,2
15762.ST00	150	7,5	22,2

CONCAVE VACUUM



CODE	Ø	X	H
15710.NE00	125	3	22,2

Quartz - Granite

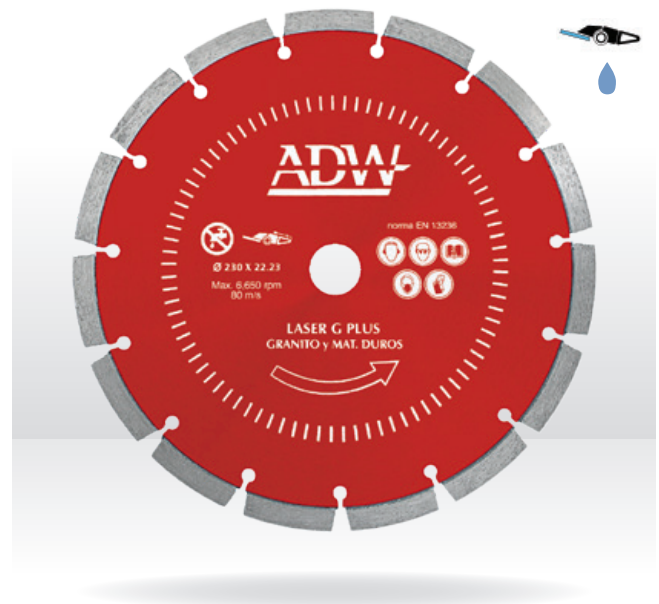
TURBO SHARK



CODE	Ø	X	H
15775.ST00	115	10	22,23
14717.ST00	125	10	22,23
15776.ST00	150	10	22,23
10666.ST00	180	10	22,23
10667.ST00	230	10	22,23

Available with Flange Ø22,2 - M-14 & 5/8"

LASER-G PLUS



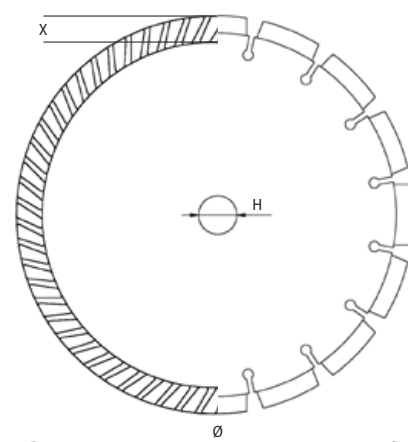
CODE	Ø	X	H
07284.ST00	115	10	22,23
07285.ST00	125	10	22,23
07286.ST00	150	10	22,23
07287.ST00	180	10	22,23
07289.ST00	230	10	22,23

Available with Flange Ø22,2 - M-14 & 5/8"

CUTTING & GRINDING



CODE	Ø	X	CONNECTION
MPRO-222/08	125	7	M-14



Marble - Limestones

ELECTROCUT



CODE	Ø	X	H
01382.ST00	115	5	22,23
01383.ST00	125	5	22,23
01907.ST00	150	5	22,23
01908.ST00	180	5	22,23
00408.ST00	230	5	22,23

CUTTING & GRINDING



CODE	Ø	CONNECTION
1555.NE00	125	M-14

Available with Flange Ø22,2 - M-14 & 5/8"





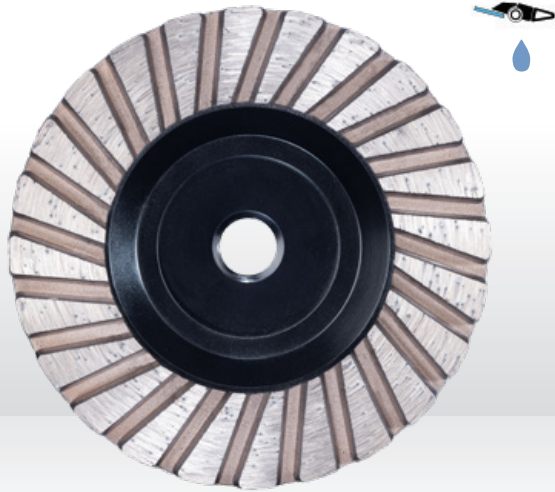
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Grinding and Sanding



Quartz - Granite

TURBO PLUS



CODE	Ø	GRIT	X	CONNECTION
09247.ST00	100	30	8	M-14
09282.ST00	100	45	8	M-14
09246.ST00	125	30	8	M-14

Multi-Materials

STAR PAD 3 STEP

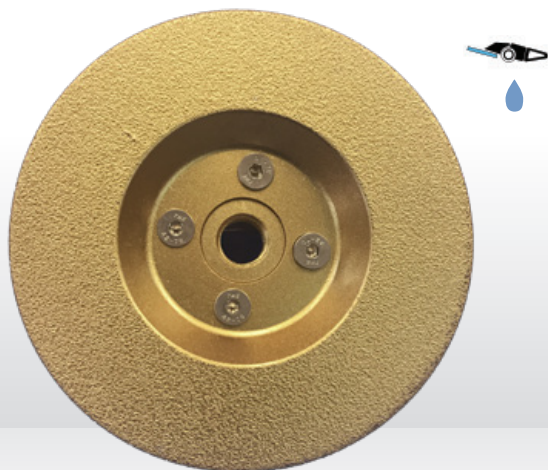


CODE	Ø	STEP	X	CONNECTION
17320.NE00	100	1	4	QRS
17321.NE00	100	2	4	QRS
17322.NE00	100	3	4	QRS

CODE	Ø	OPTIONAL	X	CONNECTION
17319.NE00	100	0 Coarse	4	QRS

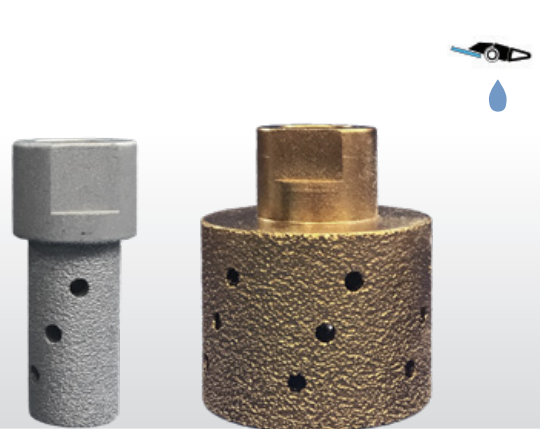
Multi-Materials

VACUUM CUP WHEEL



CODE	Ø	GRIT	CONNECTION
15641.NE00	115	Coarse	M-14
15642.NE00	115	Fine	M-14

VACUUM DRUM WHEEL



CODE	Ø	GRIT	CONNECTION
15706.NE00	20x40	Medium	M-14
15707.NE00	20x40	Fine	M-14
15708.NE00	50x40	Medium	M-14
15709.NE00	50x40	Fine	M-14



Diamond Solutions

Drilling



Multi-Materials

NON-CORING DRILL BIT



CODE	Ø	X	CONNECTION
C02866	5	10	ø10
C01287	6	10	ø10
C03103	8	10	ø10
C01269	10	10	ø10
C01334	12	10	ø10
C01335	14	10	ø10

VACUUM



CODE	Ø	X	H	CONNECTION
15908.NE00	5	15	45	M-14
15909.NE00	6	15	45	M-14
15910.NE00	8	15	45	M-14
15911.NE00	10	15	45	M-14
15912.NE00	12	15	45	M-14
15913.NE00	14	15	45	M-14
15914.NE00	16	15	45	M-14
15915.NE00	20	15	45	M-14
15916.NE00	22	15	45	M-14
15917.NE00	25	15	45	M-14
15918.NE00	30	15	45	M-14
15919.NE00	35	15	45	M-14
15920.NE00	40	15	45	M-14
15921.NE00	50	15	45	M-14
15922.NE00	60	15	45	M-14
15923.NE00	68	15	45	M-14
15924.NE00	80	15	45	M-14
15925.NE00	90	15	45	M-14
15926.NE00	100	15	45	M-14
15927.NE00	120	15	45	M-14

Multi-Materials

DEKTOOL



CODE	Ø	X	CONNECTION
15581.NE01	6	10	1/2" Gas + M-14
15582.NE01	8	10	1/2" Gas + M-14
15407.NE01	10	10	1/2" Gas + M-14
17090.NE01	12	10	1/2" Gas + M-14
15518.NE01	16	10	1/2" Gas + M-14
08414.NE01	20	10	1/2" Gas + M-14
15519.NE01	22	10	1/2" Gas + M-14
08415.NE01	25	10	1/2" Gas + M-14
16419.NE01	28	10	1/2" Gas + M-14
15520.NE01	30	10	1/2" Gas + M-14
08416.NE01	35	10	1/2" Gas + M-14
08417.NE01	40	10	1/2" Gas + M-14
08418.NE01	45	10	1/2" Gas + M-14
08419.NE01	50	10	1/2" Gas + M-14
15422.NE01	60	10	1/2" Gas + M-14
15521.NE01	68	10	1/2" Gas + M-14
15424.NE01	80	10	1/2" Gas + M-14
16496.NE01	90	10	1/2" Gas + M-14
16497.NE01	100	10	1/2" Gas + M-14
17102.NE01	105	10	1/2" Gas + M-14
17103.NE01	120	10	1/2" Gas + M-14
17104.NE01	160	10	1/2" Gas + M-14

Left hand screw and 5/8" connections available on request.

Recommended working parameters

Ø	RPM	FEED SPEED
6 a 25	5.000	30 mm/min
28 a 40	4.000	30 mm/min
45 a 68	3.000	30 mm/min
80 a 160	2.000	30 mm/min

JOKER



CODE	Ø	X	CONNECTION
16741.NE00	6	10	1/2" Gas + M-14
16742.NE00	8	10	1/2" Gas + M-14
16743.NE00	10	10	1/2" Gas + M-14
16828.NE00	14	10	1/2" Gas + M-14
16829.NE00	18	10	1/2" Gas + M-14
16745.NE00	20	10	1/2" Gas + M-14
16746.NE00	22	10	1/2" Gas + M-14
16747.NE00	25	10	1/2" Gas + M-14
16748.NE00	30	10	1/2" Gas + M-14
16749.NE00	35	10	1/2" Gas + M-14
16750.NE00	40	10	1/2" Gas + M-14
16751.NE00	45	10	1/2" Gas + M-14
16752.NE00	50	10	1/2" Gas + M-14

Left hand screw and 5/8" connections available on request.

T-SEG



CODE	Ø	X	CONNECTION
17147.NE00	20	10	1/2" Gas + M-14
17148.NE00	25	10	1/2" Gas + M-14
17149.NE00	35	10	1/2" Gas + M-14
17150.NE00	68	10	1/2" Gas + M-14

Left hand screw and 5/8" connections available on request.



Diamond Solutions

CNC Milling



Finger bits – Ultracompact Surfaces

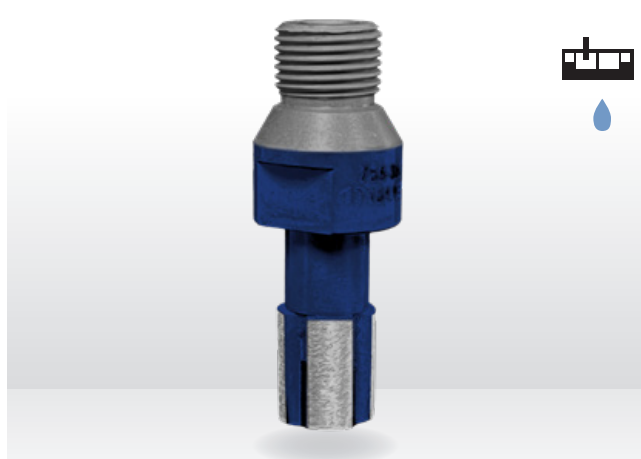
INCREMENTAL ROUTER CONT



CODE	Ø	TYPE	CONNECTION
16101.NE05	8x10	CONT	1/2" Gas
16102.NE05	10x10	CONT	1/2" Gas
15842.NE05	20x10	CONT	1/2" Gas
15842.NE01	20x10	CONT	Reverse

Ø	RPM	FEED SPEED
8	8.000	200 to 250 mm/min
10	7.000	200 to 250 mm/min
20	5.200	200 to 250 mm/min

INCREMENTAL ROUTER SGM



CODE	Ø	TYPE	CONNECTION
17184.NE00	20 x 24	SGM -4Z-	1/2" Gas

RPM	FEED SPEED
5.200	200 to 250 mm/min

UCM FINGER BIT



CODE	Ø	TYPE	CONNECTION
16548.NE00	20 x 25	SEGM	1/2" Gas
16548.NE01	20 x 25	SEGM	Reverse
16549.NE00	20 x 35	SEGM	1/2" Gas
16549.NE01	20 x 35	SEGM	Reverse

RPM	FEED SPEED
4.200	130 to 160 mm/min

DRAINBOARD GROOVING BIT



CODE	Ø	STEP	CONNECTION
07479.NE00	15	1	1/2" Gas
07480.NE00	15	2	1/2" Gas
07481.NE00	15	3	1/2" Gas
07931.NE00	20	1	1/2" Gas
07932.NE00	20	2	1/2" Gas
07933.NE00	20	3	1/2" Gas

Ø	RPM	FEED SPEED
15	5.000	200 to 300 mm/min
20	4.500	200 to 300 mm/min

Finger bits – Granite & Quartz

INCREMENTAL ROUTER CONT



CODE	Ø	TYPE	CONNECTION
16101.NE00	8x10	CONT	1/2" Gas
16102.NE00	10x10	CONT	1/2" Gas
15842.NE00	20x10	CONT	1/2" Gas

Ø	RPM	FEED SPEED
8	8.000	200 to 250 mm/min
10	7.000	200 to 250 mm/min
20	5.200	200 to 250 mm/min

INCREMENTAL ROUTER SGM



CODE	Ø	TYPE	CONNECTION
17183.NE00	20x24	SGM -4Z-	1/2" Gas

RPM	FEED SPEED
5.200	200 to 250 mm/min

DOCTO FINGER BIT



CODE	Ø	TYPE	CONNECTION
15568.NE00	25x35	GR-Red	1/2" Gas
10873.NE00	25x48	GR-Red	1/2" Gas

RPM	FEED SPEED
4.500	150 to 200 mm/min

DRAINBOARD GROOVING BIT



CODE	Ø	STEP	CONNECTION
07479.NE00	15	1	1/2" Gas
07480.NE00	15	2	1/2" Gas
07481.NE00	15	3	1/2" Gas
07931.NE00	20	1	1/2" Gas
07932.NE00	20	2	1/2" Gas
07933.NE00	20	3	1/2" Gas

Ø	RPM	FEED SPEED
15	5.000	200 to 300 mm/min
20	4.500	200 to 300 mm/min

Stubbing milling – Multi-Materials

Ø 86 STUBBING WHEEL



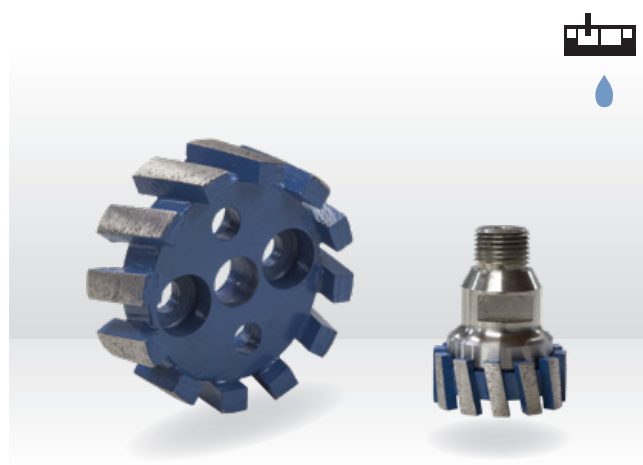
CODE	Ø	H	STEP
15844.NE00	86 x 20	50	1

CONNECTOR

CODE	Ø	TYPE	CONNECTION
08603.NE00	86	CNC	1/2" Gas

RPM	FEED SPEED
4.500	400 to 600 mm/min

Ø 50 STUBBING WHEEL



CODE	Ø	H	STEP
15843.NE00	50 x 20	10	1

CONNECTOR

CODE	Ø	TYPE	CONNECTION
08603.NE01	50	CNC	1/2" Gas

RPM	FEED SPEED
6.000	400 to 600 mm/min





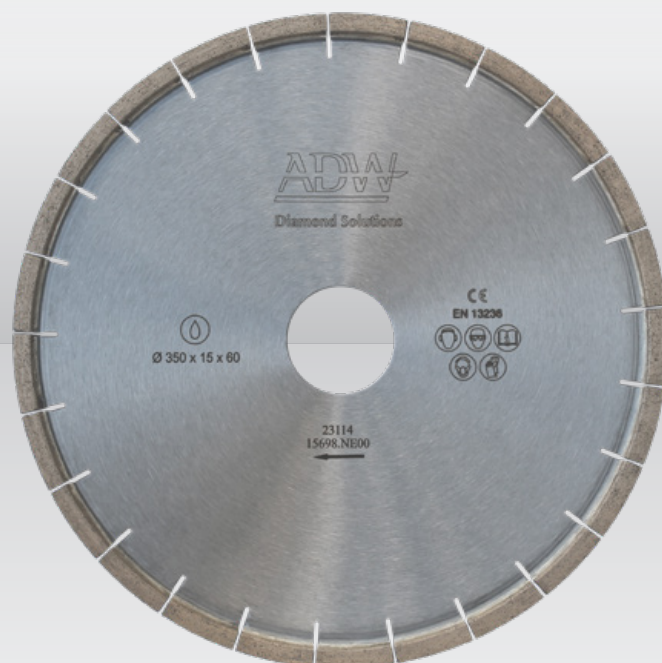
Diamond Solutions

Milling and Grooving



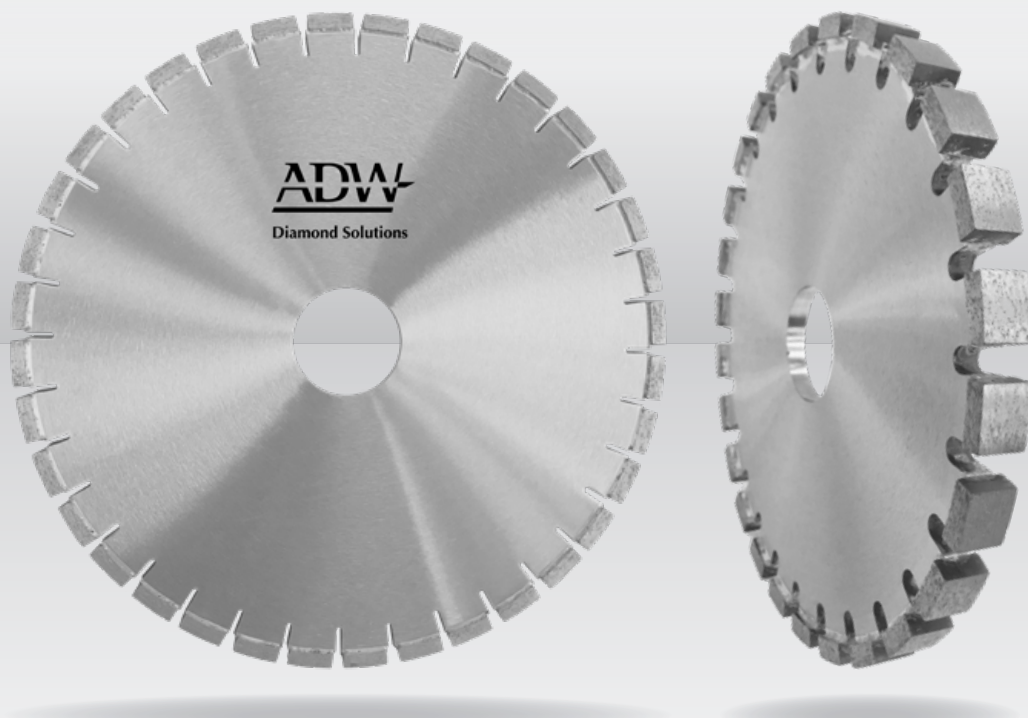
Porcelain Gres - Ultracompact Surfaces

MILLING AND GROOVING IKON MILLING WHEEL



CODE	Ø	W	H
16188.NE00	300	7	60
17160.NE00	300	10	60
17161.NE00	300	12	60
17162.NE00	300	15	60
17139.NE00	300	20	60
15535.NE00	350	7	60
17163.NE00	350	10	60
17164.NE00	350	12	60
15698.NE00	350	15	60
17165.NE00	350	20	60
17166.NE00	400	7	60
17167.NE00	400	10	60
17168.NE00	400	12	60
17169.NE00	400	15	60
17170.NE00	400	20	60

MILLING AND GROOVING NMB MILLING WHEEL

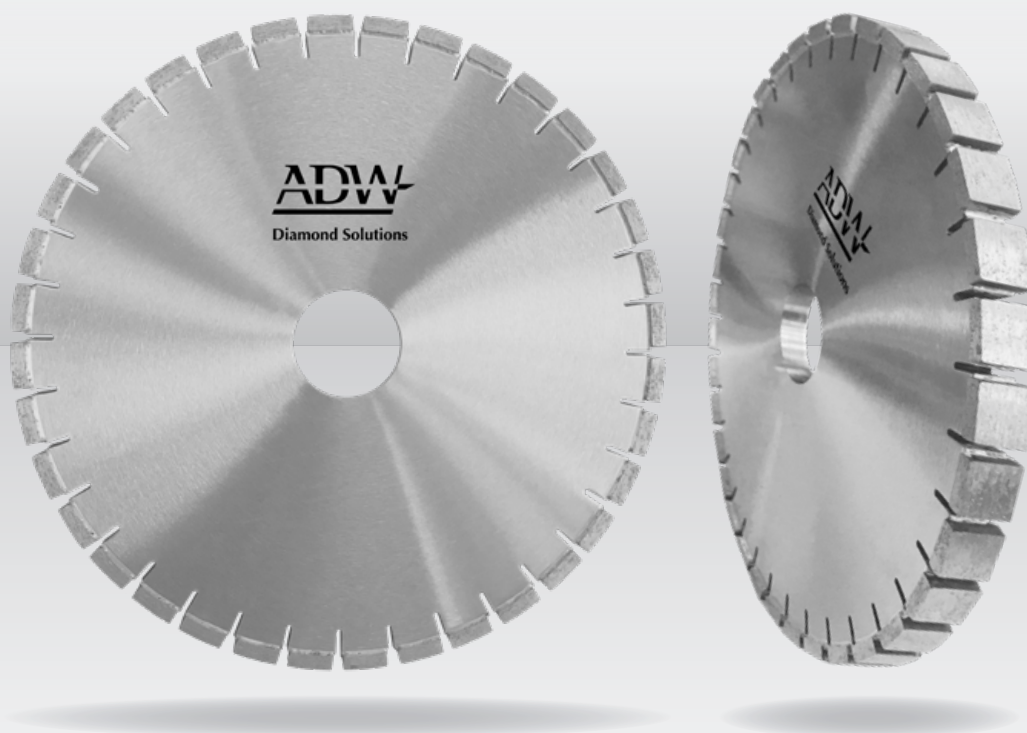


CODE	Ø	W	H
01427.NE00	200	7	60
05759.NE00	200	10	60
00000.NE00	200	12	60
00000.NE00	200	15	60
11044.NE00	200	20	60
11340.NE00	200	24	60
00000.NE00	200	30	60
03517.NE00	250	7	60
05012.NE00	250	10	60
05014.NE00	250	12	60
05013.NE00	250	15	60
03419.NE00	250	20	60
08439.NE00	250	24	60
15171.NE00	250	30	60
03944.NE00	300	7	60
03673.NE00	300	10	60
04984.NE00	300	12	60
03915.NE00	300	15	60
05180.NE00	300	20	60
07746.NE00	300	24	60
07737.NE00	300	30	60

CODE	Ø	W	H
03943.NE00	350	7	60
05006.NE00	350	10	60
05008.NE00	350	12	60
05007.NE00	350	15	60
04648.NE00	350	20	60
05057.NE00	350	24	60
09530.NE00	350	30	60
03413.NE00	400	7	60
03878.NE00	400	10	60
03822.NE00	400	12	60
03546.NE00	400	15	60
04651.NE00	400	20	60
09928.NE00	400	24	60
09158.NE00	400	30	60
06056.NE00	500	7	60
02862.NE00	500	10	60
03881.NE00	500	12	60
05026.NE00	500	15	60
10931.NE00	500	20	60
17190.NE00	500	24	60
00000.NE00	500	30	60

Marble - Limestones

MILLING AND GROOVING RMC MILLING WHEEL



CODE	Ø	W	H
06173.NE00	200	7	60
04356.NE00	200	10	60
00000.NE00	200	12	60
00000.NE00	200	15	60
14450.NE00	200	20	60
05397.NE00	250	7	60
05398.NE00	250	10	60
05399.NE00	250	12	60
05400.NE00	250	15	60
05367.NE00	250	20	60
03409.NE00	300	7	60
03089.NE00	300	10	60
03434.NE00	300	12	60
05242.NE00	300	15	60
03889.NE00	300	20	60

CODE	Ø	W	H
03319.NE00	350	7	60
05015.NE00	350	10	60
04361.NE00	350	12	60
00290.NE00	350	15	60
04396.NE00	350	20	60
05422.NE00	400	7	60
05423.NE00	400	10	60
05424.NE00	400	12	60
05425.NE00	400	15	60
05426.NE00	400	20	60
00000.NE00	500	7	60
07740.NE00	500	10	60
00000.NE00	500	12	60
00000.NE00	500	15	60
00000.NE00	500	20	60

SAFETY GUIDELINES



Diamond Solutions

Bridge & CNC Saw Blades



- Do ensure adequate running water supply for optimal cooling of the blade.
- Do ensure that the blade cuts parallel to the cutting line.
- Do check that the blade is adequate for the material to be cut.
- Do follow the working parameters recommended by ADW (rotation and feed speed).
- Make sure that the protective case of the machine is well positioned and respect safe working conditions.
- Don't force blade on blade shaft or mount blade on undersized spindle.
- Always wear approved personal protective equipment (PPE) : helmet, goggles, hearing protection, gloves and security footwear.

Handheld Cutting



- Never cut dry, without being mentioned explicitly by the manufacturer.
- Do check that the blade is adequate for the material to be cut.
- Do ensure that the arrow printed on the blade corresponds with the direction of rotation of the machine spindle.
- Do ensure that the blade is in balance and running properly. Otherwise, make sure the spindle and locking nut of the machine are in perfect working conditions.
- Do ensure that the protective case of the blade is installed during operation.
- Do use the blade with a gentle reciprocating motion; especially working on hard materials.
- Do avoid tilting the blade when cutting.
- Don't apply excessive pressure or force the feed of your diamond blade through the cut. The weight of the machine will suffice. Increased pressure means increased wear.
- Do only use machines which have an approved safety guard.
- Do inspect blade frequently to detect cracks and undercutting of the steel core and segments which could lead to segment loss.
- Always wear approved personal protective equipment (PPE) : helmet, goggles, hearing protection, gloves and security footwear.

Drilling



- Do ensure adequate running water supply (recommendation 0,5 l/min.)
- Never cut dry, without being mentioned explicitly by the manufacturer.
- Do only use machines which have an approved safety guard.
- Do ensure a routine maintenance of the machines to prevent possible power loss, which could have an impact on tools performance.
- Do ensure that the tool is properly mounted on the machine. Once the tool is screwed, run it without a load to detect potential vibrations caused by wrong centring. If this situation occurs, unscrew, place it and screw again.
- Do check that the tool is adequate for the material to be drilled.
- Do follow the working parameters recommended by ADW (rotation and feed speed).
- For a manual use, let the tool working at its own speed, without forcing the feed. Use the tool with a gentle reciprocating motion; especially working on hard materials.
- Do inspect blade frequently to detect cracks and undercutting of the steel core and segments which could lead to segment loss.
- Always wear approved personal protective equipment (PPE) : helmet, goggles, hearing protection, gloves and security footwear.

WHAT YOU SHOULD KNOW



Diamond Solutions

Variables which affect performance

Variables	Condition	Cutting speed	Tool life	Variables	Condition	Cutting speed	Tool life
Bond hardness	Harder	Slower	Longer	Horsepower	Lower	Slower	Longer
	Softer	Faster	Shorter		Higher	Faster	Shorter
Diamond quality	Lower	Slower	Shorter	Rotational speed	Lower	Slower	Shorter
	Higher	Faster	Longer		Higher	Faster	Longer
Diamond grit size	Coarser	Faster	Shorter	Water flow	Lower	Faster	Shorter
	Finer	Slower	Longer		Higher	Slower	Longer
Diamond concentration	Lower	Faster	Shorter	Cutting depth	Shallow	Faster	Longer
	Higher	Slower	Longer		Deep	Slower	Shorter
Segment thickness	Thinner	Faster	Shorter	Abrasiveness	Higher	Faster	Shorter
	Thicker	Slower	Longer		Lower	Slower	Longer

Diamond segments detached at high speed, can cause physical damages. They must take every precaution to increase operator safety.

RPM table

Motor shaft RPM, depending on the recommended peripheral speed in m/s.

Ø	Peripheral speed in m/s.							
	30	32	35	40	45	50	55	60
250	2.292	2.445	2.674	3.056	3.438	3.820	4.202	4.584
300	1.910	2.037	2.228	2.546	2.865	3.183	3.501	3.820
350	1.637	1.746	1.910	2.183	2.456	2.728	3.001	3.274
400	1.432	1.528	1.671	1.910	2.149	2.387	2.626	2.865
450	1.273	1.358	1.485	1.698	1.910	2.122	2.334	2.546
500	1.146	1.222	1.337	1.528	1.719	1.910	2.101	2.292
600	955	1.019	1.114	1.273	1.432	1.592	1.751	1.910
650	881	940	1.028	1.175	1.322	1.469	1.616	1.763
700	819	873	955	1.091	1.228	1.364	1.501	1.637
750	764	815	891	1.019	1.146	1.273	1.401	1.528
800	716	764	836	955	1.074	1.194	1.313	1.432
850	674	719	786	899	1.011	1.123	1.236	1.348
900	637	679	743	849	955	1.061	1.167	1.273

MATERIALS	Recommended P.S.	Maximum P.S.
Ultracompact Surfaces	50 m/s.	55 m/s.
Granite	40 m/s.	50 m/s.
Natural Quartzite	30 m/s.	32 m/s.
Quartz Stone	45 m/s.	55 m/s.
Marble and Limestones	45 m/s.	55 m/s.



Marble Workshop

2024



Diamond Solutions

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