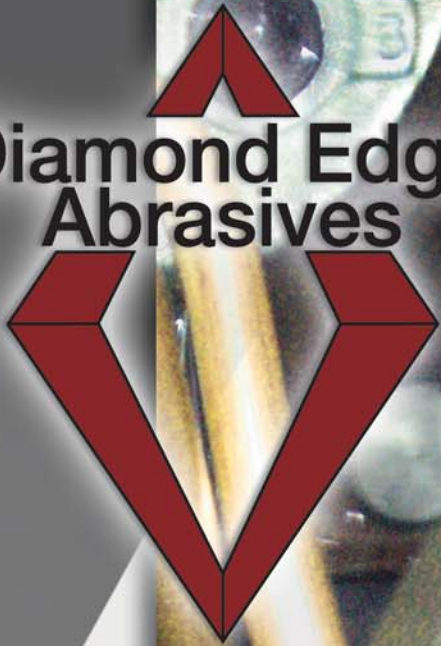
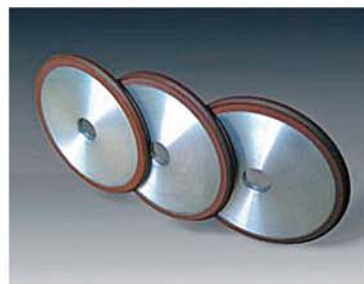


**Diamond Edge
Abrasives**



**Diamond
and CBN
Grinding
Wheels**





We help you grind better!

We, at Diamond Edge Abrasives, pride ourselves on our service. Over our years of business we have built a reputation for quick order turn-arounds and professional service with a smile.

We will work with you to get you the grinding wheel that you need for your application. We specialize in customizing our wheels to your preference.

With our quick, professional and customized service we believe we can offer the best value for your hard-earned dollars.

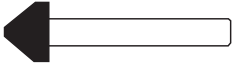
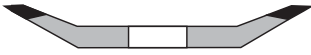

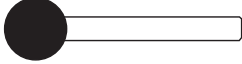
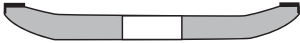







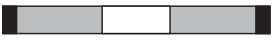





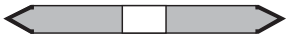
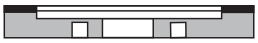


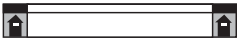

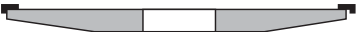


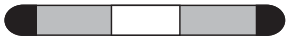


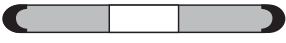

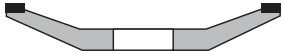
DIAMOND EDGE ABRASIVES: We help you grind better!

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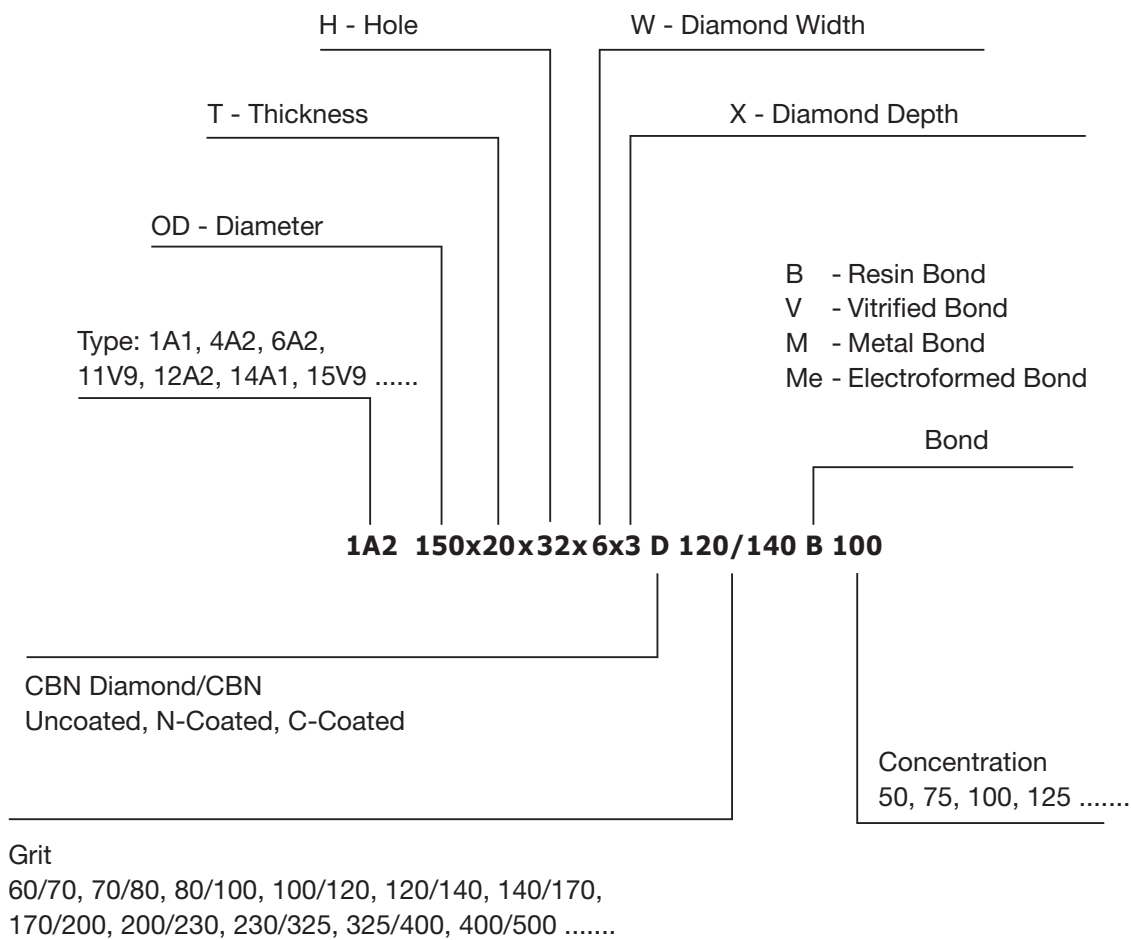


TYPES OF DIAMOND & CBN WHEELS

 Cone Wheel	 12V9	 3A1
 Ball Wheel	 15A2	 14A1
 DW	 15V4	 14F1
 1A8	 15V9	 9A3
 1A1	 12B	 6A9
 1E1	 6A2H	 6A2
 1EE1	 6A2C	 1A1R
 1V1	 2A2T	 11A2
 4A2P	 HH1	 11V4
 1F1	 HH2	 11V9
 12V2	 12V4	 12A2



PART NUMBERING



ORDERING

A detailed specification, will guarantee the delivery of the proper wheels.

Please let us know:

Type: such as 1A1, 1A1R, 6A2, 11V9

Size: diameter, thickness, hole, width and depth of abrasive layer, angle

Specification: abrasive (D or CBN), grit, bond, concentration, workpiece material, RESIN BONDED DIAMOND & CBN WHEELSgrinding processs (wet or dry)

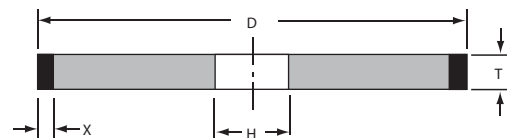
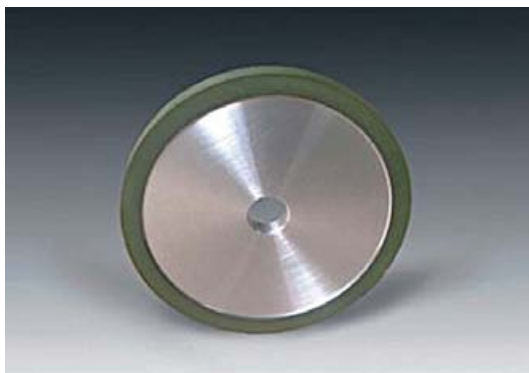


RESIN BONDED DIAMOND & CBN WHEELS

Resin bonded diamond & CBN wheels are used for grinding, cutting and slotting of nonferrous materials such as tungsten carbide, quartz, glass, optical materials, silica, composites, ceramics and ferrous materials such as high speed steel, bearing steel, hardened steel, heat treated alloys, etc.

Resin bonded diamond & CBN wheels are highly efficient and allow for low feed force, sharp cutting, easy truing and dressing.

1A1 FOR CYLINDRICAL + FLUTE GRINDING



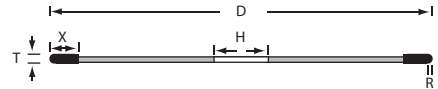
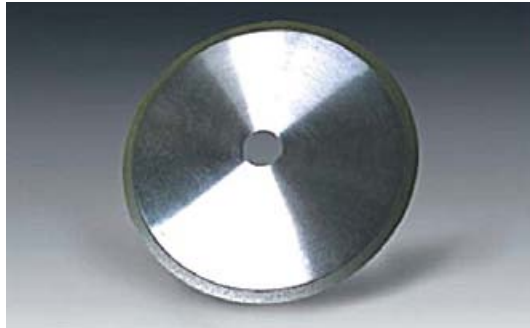
D	T	H	X
25	4,6,8,10,12,16,20		3
30	10,12,16,20		3
40	4,6,8,10,12,20		3
50	4,6,8,10,12,16,20		3
60	6,8,10,16,20		3,4,5
75	3,4,6,8,10		3,4,5
80	5,6,8,10,12,16,20		3,4,5
100	3,4,5,6,8,10,12,16,20		3,4,5,6,10
125	3,4,5,6,8,10,12,15,16,20		3,4,5,6,10
150	3,4,5,6,8,10,12,15,16,20		3,4,5,6,8,10
175	5,8,10,12,16,20		3,4,5,6,8,10
200	5,6,8,10,12,15,16,20		3,4,5,6,8,10
250	5,8,10,12,15,16,20,25,40,50,60		3,4,5,6,8,10,15
300	8,10,12,16,20,25,32,40,50,60		3,4,5,6,8,10,15
350	12,15,16,20,25,32,40,50,60		3,4,5,6,8,10,15
400	10,12,15,16,20,25,32,40,50,60		3,4,5,6,8,10,15
450	12,15,20,40,50,60		3,4,5,6,8,10,15
500	12,15,20,40,50,60		3,4,5,6,8,10,15

Other specifications available upon request



RESIN BONDED DIAMOND & CBN WHEELS

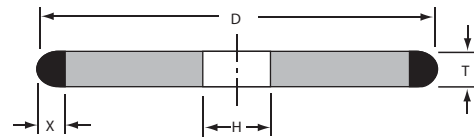
1A1R FOR CUTTING OF TUNGSTEN CARBIDE, QUARTZ, GLASS, LED, ETC.



D	T/E				X
	0.8/0.6	1.0/0.6	1.2/0.8	1.4/1.0	
60	✓				5
80	✓				5
100	✓	✓	✓	✓	5
150	✓	✓	✓	✓	6
200		✓	✓	✓	6, 8

Other specifications available upon request

1F1 FOR GRINDING OF ARCS WITH 0.01 MM CURVATURE



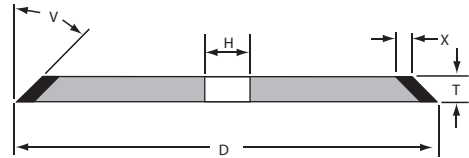
D	T/R	H	X
60	4/2		4
75	4.2/2.1		5
80	6/3		6
100	3/1.5, 6/3, 8/4, 10/5		3, 5, 6, 7, 10
125	3/1.5, 6/3		3, 6, 10

Other specifications available upon request



RESIN BONDED DIAMOND & CBN WHEELS

1V1 FOR PRECISION AND DEEP GROOVING



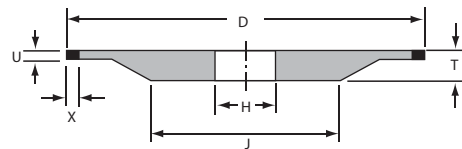
D	T	H	X	V
100	1.6, 3, 6, 10, 12.7		6, 10, 12.7	10, 15, 20, 30, 45°
125	3, 6, 10, 12.7		6, 10, 12.7	10, 15, 20, 30, 45°
150	3, 6, 10, 12.7		6, 10, 12.7	10, 15, 20, 30, 45°

Other specifications available upon request

3A1 FOR HIGH PRECISION CUT-IN GRINDING

such as GP grinding, JG grinding, micro drill grinding.

Minimum thickness 0.4 mm within the run-out 0.003 mm



D	T	J	U	X
75	6	50	1,0	3
75	6	50	1.6	3
75	6	50	3	3
100	6	75	1.6	3
100	6	75	3	3
125	6	100	1.6	3
125	6	100	3	3
150	6	125	1.6	3
150	6	125	3	3
180	6	150	1.6	3
180	6	150	3	3
200	6	180	1.6	3
200	6	180	3	3

Other specifications available upon request

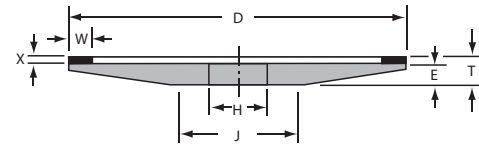
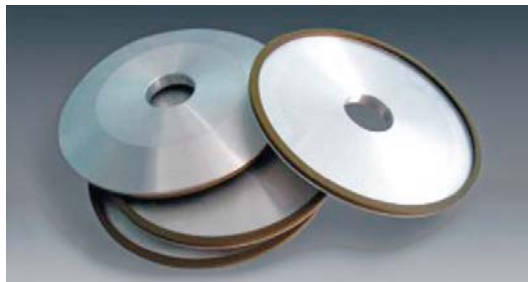


RESIN BONDED DIAMOND & CBN WHEELS

4A2 FOR GRINDING OF CARBIDE TOOLS

Single abrasive, mixed abrasives, mixed grits

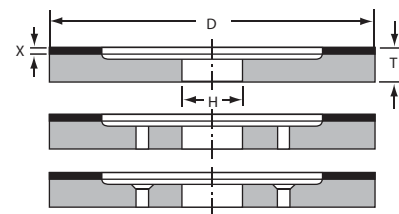
Single, double and tripple grinding layers available



D	T	H	J	W	X
150	10		57	3	1.5
150	10		57	5	1.5
150	10		57	6	1.5
150	10		57	6	3
150	10		57	10	3
200	10		100	6	3
250	13		125	6	3

Other specifications available upon request

6A2 FOR HIGH-PRECISION END/SURFACE AND CUTTER'S GRINDING



D	T	H	E	W	X
50	13		6	3,5,6	1,5
75	20		10	3, 5, 6,10	3
100	20		10	6,10,12	3
125	20		10	6,10,12,15,20, 25	3
150	20		12	5, 6,10,12,15, 20, 25, 30	3
175	20		12	5, 6,10, 15, 20, 25	3
200	20		12	10, 15, 20, 25	3

Other specifications available upon request



RESIN BONDED DIAMOND & CBN WHEELS

6A2T DIAMOND & CBN DOUBLE GRINDING DISC

for high accuracy, high efficiency and excellent durability.

Used in the fields of compressor, bearing, magnetic materials and various ceramics.

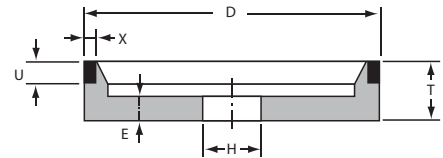
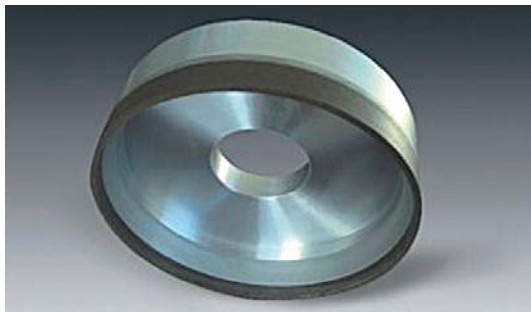


D	T	H	E	K	W	X
305	50	80			50	3.5
305	50	80			10	3.5
305	50	80			100	3.0
305	50	80			75	3.0
450	63	160			100	3.0

Other specifications available upon request

6A9 FOR HIGH PRECISION GRINDING OF CARBIDE TOOLS AND CUTTERS

Wheels with aluminum-powder body available.



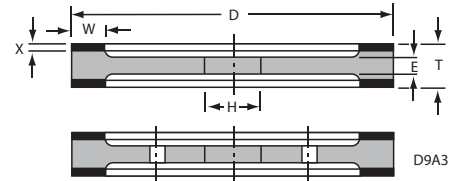
D	T	H	E	K	U	X
75	25		10		6, 10	3-6
100	30		10		6, 10	3-6
125	35		10		6, 10	3-6
150	35		13		6, 10	3
200	35		13		6, 10	3
250	50		13		6, 10	3

Other specifications available upon request



RESIN BONDED DIAMOND & CBN WHEELS

9A3 FOR CYLINDRICAL GRINDING, TOOL AND CUTTERS GRINDING, CENTERLESS GRINDING

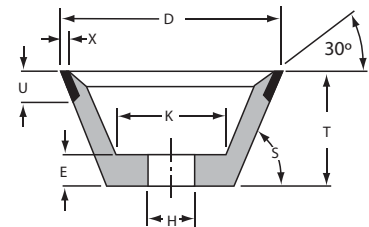


D	T	H	E	W	X
125	12		8	5	2
150	16		12	5	2
175	16		10	6	3
175	16		12	5	2
175	16		12	8	2
175	16		10	8, 10	3
230	12		8	10	2

Other specifications available upon request

11V9 FOR CARBIDE TOOLS, CUTTERS GRINDING, END/SURFACE AND ELECTROCHEMICAL GRINDING

Wheels with aluminum-powder body available.

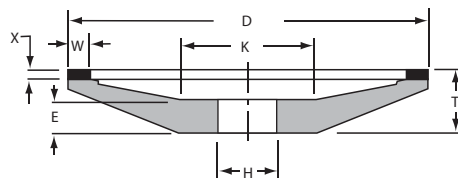
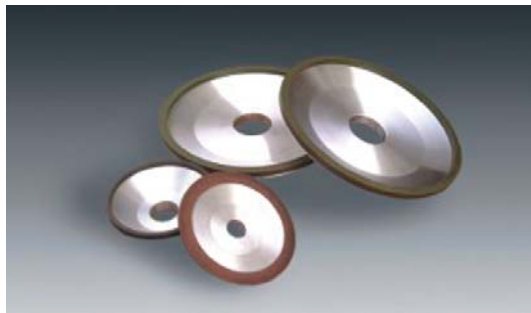


D	T	H	E	K	S	U	X
50	25		6	12		5	1,5, 2, 3
75	32		6	12		5, 7	2, 3
90	35		10	56	60	7, 10	2, 3
100	40		10	56		7, 10	2, 3
125	40, 45		13	80	70	7, 10	2, 3
150	40, 45		13	80		7, 10	2, 3

Other specifications available upon request

RESIN BONDED DIAMOND & CBN WHEELS

12A2 FOR CARBIDE TOOLS, CUTTERS GRINDING, END/SURFACE AND ELECTROCHEMICAL GRINDING

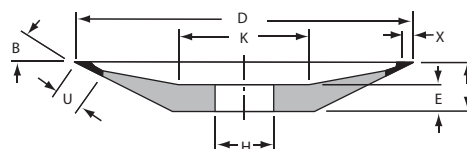


D	T	H	E	K	W	X
75	12		5	35	3, 5, 6, 10	3, 4, 6
100	14		6	56	3, 5, 6, 10	3, 4, 6
125	18		8	75	3, 5, 6, 10	3, 4, 6
150	20		9	80	5, 6, 10, 13, 15	3, 4, 6
175	22		10	100	5, 6	3, 4, 6
200	24		11	135	13, 15	3, 4, 6

Other specifications available upon request

12V9 FOR CARBIDE TOOLS, CUTTERS GRINDING, END/SURFACE AND ELECTROCHEMICAL GRINDING

Wheels with aluminum-powder body available.



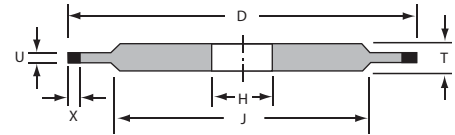
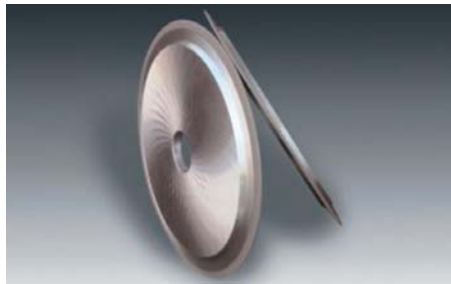
D	T	H	E	U	X
75	20	10	38	6	1.5, 3
100	20	10	56	6, 10	1.5, 3
125	25	10	75	6, 10	1.5, 3
150	25	10	80	6, 10	1.5, 3
200	25	10	80	6, 10	1.5, 3

Other specifications available upon request



RESIN BONDED DIAMOND & CBN WHEELS

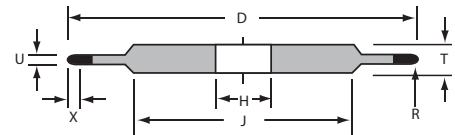
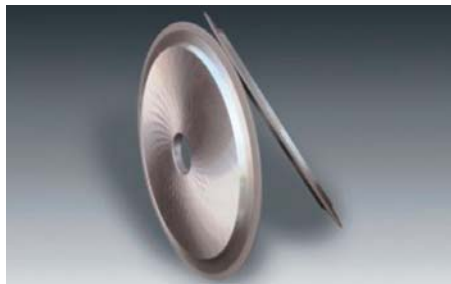
14A1 FOR CYLINDRICAL GRINDING AND PROFILE



D	T	H	J	X	U
75	6		50	6	1.5, 2, 3
100	6, 8		70	6	1.5, 2, 3
125	6, 8, 10, 12		100	6, 10	1.5, 2, 3
150	10, 12		120	6, 10	1.5, 2, 3
175	12, 15,		140	6, 10	1.5, 3, 6
200	12, 15, 20		160	6, 10	2, 3, 5, 6
250	12, 15, 20		200	6, 10	3, 6, 10
300	15, 20		250	6, 10	6, 10, 16
350	15, 20		300	6, 10	6, 10, 16
400	20		350	6, 10	6, 10, 16
500	20		400	6, 10	10, 16
600	20		500	6, 10	10, 16

Other specifications available upon request

14F1 FOR CYLINDRICAL GRINDING AND PROFILE

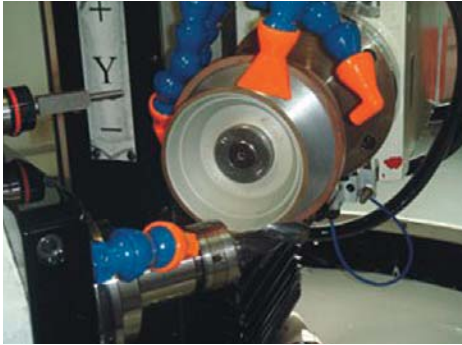


D	T	H	J	X	U
75	6		50	6	1.5, 2, 3
100	6, 8		70	6	1.5, 2, 3
125	6, 8, 10, 12		100	6	1.5, 2, 3
150	10, 12		120	6	1.5, 2, 3
175	12, 15,		140	6	1, 3, 6
200	12, 15, 20		160	6, 10	3, 5, 6
250	12, 15, 20		200	6, 10	6, 10
300	15, 20		250	6, 10	6, 10, 16
350	15, 20		300	6, 10	6, 10, 16
400	20		350	6, 10	6, 10, 16
500	20		400	6, 10	10, 16
600	20		500	6, 10	10, 16

Other specifications available upon request



DIAMOND & CBN WHEELS FOR CNC GRINDERS



These wheels for CNC grinders are professional grade for high speed, high accuracy, high efficiency and excellent shape-standing and have been successfully used in grinders such as Walter, Anca, Ewag and many more.

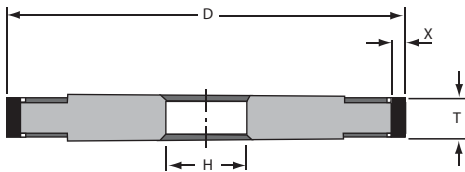


TYPE 1A1 OR 14A1



Resin bonded diamond & CBN wheels are used for grinding, cutting and slotting of nonferrous materials such as tungsten carbide, quartz, glass, optical materials, silica, composites, ceramics and ferrous materials such as high speed steel, bearing steel, hardened steel, heat treated alloys, etc.

Resin bonded diamond & CBN wheels are highly efficient and allow for low feed force, sharp cutting, easy truing and dressing.



D-T-H-X	Grit	Bond	Concentration
75 - 10 - 20 - 5	D180-D320	B	C100-C150
100 - 10 - 20 - 5			
100 - 10 - 20 - 5			
100 - 12 - 20 - 5			
100 - 15 - 20 - 5			
100 - 15 - 20 - 5			
125 - 5 - 20 - 10			
125 - 10 - 20 - 10			
125 - 12 - 20 - 10			
125 - 16 - 20 - 10			
150 - 12 - 20 - 10			



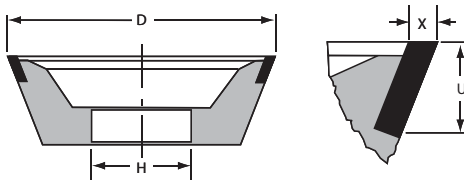
DIAMOND & CBN WHEELS FOR CNC GRINDERS

TYPE 11V9



Aluminum powder body, good sharpening, excellent efficiency, no burning and scratching

D-T-H-X	Grit	Bond	Concentration
75 - 20 - 2 - 10	D150-D600	B	C100-C150
75 - 20 - 3 - 10			
100 - 20 - 2 - 10			
100 - 20 - 3 - 10			
125 - 20 - 3 - 10			

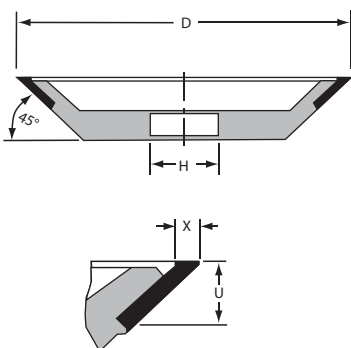


TYPE 12V9



Aluminum powder body, good sharpening, excellent efficiency, no burning and scratching.

D-H-X-U	Grit	Bond	Concentration
75 - 20 - 2 - 10	D180-D600	B	C100-C150
75 - 20 - 3 - 10			
100 - 20 - 2 - 10			
100 - 20 - 3 - 10			
125 - 20 - 2 - 10			
125 - 20 - 3 - 10			
150 - 20 - 3 - 10			

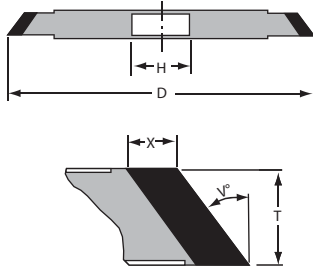


DIAMOND & CBN WHEELS FOR CNC GRINDERS

TYPE 1V1 OR 14V1



Copper body, high-precision, high-efficiency, excellent heat-resistance

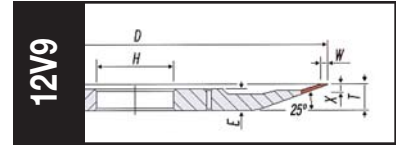


D-T-H-X-V	Grit	Bond	Concentration
75 - 10 - 20 - 6 - 10	D180-D320	B	C100-C150
100 - 10 - 20 - 10 - 10			
100 - 15 - 20 - 10 - 10			
100 - 15 - 20 - 10 - 20			
100 - 15 - 20 - 10 - 30			
100 - 15 - 20 - 10 - 45			
125 - 4 - 20 - 10 - 45			
125 - 6 - 20 - 10 - 20			
125 - 10 - 20 - 10 - 10			
125 - 10 - 20 - 10 - 20			
125 - 10 - 20 - 10 - 30			
125 - 10 - 20 - 10 - 45			
125 - 15 - 20 - 10 - 10			
125 - 15 - 20 - 10 - 20			
125 - 15 - 20 - 10 - 30			
125 - 15 - 20 - 10 - 45			
150 - 4 - 20 - 10 - 45			
150 - 12 - 20 - 10 - 15			



SAW GRINDING FOR VOLLMER, UTMA, WRIGHT, etc.

FACING

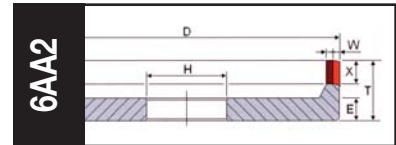


Ø 125 5"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Form	W		X		T		E		Grit	
D12V9/25°	3	1/8	10	3/8	12	1/2	9	23/64	180-400	

Ø 150 6"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Form	W		X		T		E		Grit	
D12V9/25°	3	1/8	10	3/8	12	1/2	9	23/64	180-400	

Ø 200 8"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Form	W		X		T		E		Grit	
D12V9/25°	3	1/8	10	3/8	12	1/2	9	23/64	180-400	

TOPPING



Ø 100 4"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Form	W1+W2		X		T		E		Grit	
D6AA2	2.5+2.5	13/64	8	5/16	18	45/64	8	5/16	180/400	
D6AA2	2.5+2.5	13/64	8	5/16	20	51/64	8	5/16	220/600	
D6AA2	2.5+2.5	13/64	10	3/8	22	7/8	8	5/16	220/600	

Ø 125 5"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Form	W1+W2		X		T		E		Grit	
D6AA2	2.5+2.5	13/64	8	5/16	20	51/64	11	7/16	180/400	
D6AA2	2.5+2.5	13/64	10	3/8	22	7/8	11	7/16	180-800	
D6AAA2	2.5+1.5+1.5	13/64	10	3/8	22	7/8	11	7/16	150/320/600	

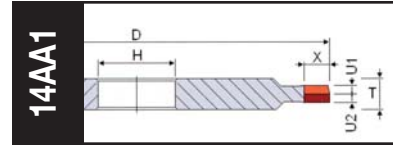
Ø 150 6"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Form	W1+W2		X		T		E		Grit	
D6AA2	2.5+2.5	13/64	8	5/16	20	51/64	11	7/16	180/800	
D6AAA2	2.5+1.5+1.5	13/64	10	3/8	22	7/8	11	7/16	150/320/600	

Other specifications available upon request



SAW GRINDING FOR AKEMAT, WALTER, UTMA, etc.

TOPPING

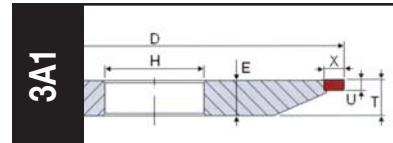


Ø 127 5"		mm	inch	mm	inch	mm	inch	mm	inch	Grit
Form	W		X		T					
D14AA1	2.5+2.5	13/64	7	9/32	15	19/32				180/400
D14AAA1	2.5+1.5+1.5	13/64	7	9/32	15	19/32				150/320/600

Ø 150 6"		mm	inch	mm	inch	mm	inch	mm	inch	Grit
Form	W		X		T					
D14AA1	2.5+2.5	13/64	8	5/16	10	3/8				180/400
D14AAA1	2.5+1.5+1.5	13/64	8	5/16	10	3/8				150/320/600

Ø 200 8"		mm	inch	mm	inch	mm	inch	mm	inch	Grit
Form	W		X		T					
D14AA1	2.5+2.5	13/64	10	3/8	19	3/8				180/400
D14AAA1	2.5+1.5+1.5	13/64	10	3/8	19	3/8				150/320/600

SIDE DRESS



Ø 75 3"		mm	inch	mm	inch	mm	inch	mm	inch	Grit
Form	W		X		T		E			
3A1	4	5/32	6	3/16	14	9/16	11	7/16		220

Ø 100 4"		mm	inch	mm	inch	mm	inch	mm	inch	Grit
Form	W		X		T		E			
3A1	4	5/32	6	3/16	16.5	21/32	11	7/16		220

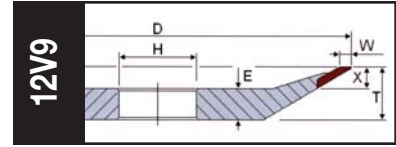
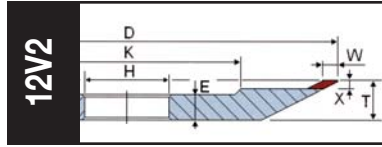
Ø 125 5"		mm	inch	mm	inch	mm	inch	mm	inch	Grit
Form	W		X		T		E			
3A1	4	5/32	6	3/16	14	9/16	11	7/16		220

Other specifications available upon request



DIAMOND WHEELS FOR SAW GRINDING

FACING



Ø 75 3"	mm	inch	mm	inch	mm	inch	mm	inch		
Form	W		X		T		E		V°	Grit
D12V2	4	5/32	2	5/64	10.5	3/8	8	5/16	25	180-800

Ø 100 4"	mm	inch	mm	inch	mm	inch	mm	inch		
Form	W		X		T		E		V°	Grit
D12V2	4	5/32	2	5/64	10	3/8	10	3/8	25	180-800

Ø 125 5"	mm	inch	mm	inch	mm	inch	mm	inch		
Form	W		X		T		E		V°	Grit
D12V2	4	5/32	2	5/64	10	3/8	10	3/8	25	180-800

Ø 150 6"	mm	inch	mm	inch	mm	inch	mm	inch		
Form	W		X		T		E		V°	Grit
D12V2	4	5/32	2	5/64	12	1/2	10	3/8	25	180-800

Ø 175 7"	mm	inch	mm	inch	mm	inch	mm	inch		
Form	W		X		T		E		V°	Grit
D12V2	4	5/32	2	5/64	12	1/2	10	3/8	25	180-800

Ø 200 8"	mm	inch	mm	inch	mm	inch	mm	inch		
Form	W		X		T		E		V°	Grit
D12V2	4	5/32	2	5/64	13	1/2	19	3/8	25	180-600

Ø 125 5"	mm	inch	mm	inch	mm	inch	mm	inch		
Form	W		X		T		E		V°	Grit
D12V9	2.5	7/64	10	3/8	12	1/2	9	23/64	25, 30	180-600

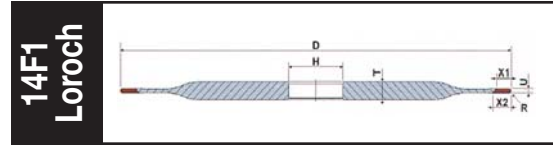
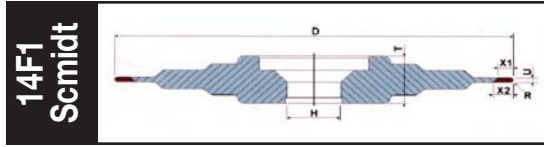
Ø 150 6"	mm	inch	mm	inch	mm	inch	mm	inch		
Form	W		X		T		E		V°	Grit
D12V9	2.5	7/64	10	3/8	12	1/2	9	23/64	25, 30	180-600

Ø 200 8"	mm	inch	mm	inch	mm	inch	mm	inch		
Form	W		X		T		E		V°	Grit
D12V9	2.5	7/64	10	3/8	13	1/2	11	7/16	25, 30	180-600
D12VV9	1.5+1	7/64	10	3/8	13	1/2	11	7/16	25, 30	220/600

Other specifications available upon request



CBN WHEELS FOR COLD SAWS



Schmidt Tempo ECT, Schmidt Tempo Grind Tower 710

Ø 150 6"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
Form	U		X1		X2		R		T		Grit	Bore
B14F1	1.3	3/64	6	1/4	8	5/16	0.65	.0256	20	3/4	180	20
B14F1	1.6	1/16	6	1/4	8	5/16	0.80	.0315	20	3/4	180	20
B14F1	2	5/64	8	5/16	10	3/8	1.00	.0394	20	3/4	180	20
B14F1	2.5	3/32	8	5/16	10	3/8	1.25	.0492	20	3/4	180	20
B14F1	3	1/8	8	5/16	10	3/8	1.50	.0591	20	3/4	180	20

Ø 200 8"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
Form	U		X1		X2		R		T		Grit	Bore
B14F1	1.3	3/64	6	1/4	8	5/16	0.65	.0256	20	3/4	180	20
B14F1	1.6	1/16	6	1/4	8	5/16	0.80	.0315	20	3/4	180	20
B14F1	2	5/64	8	5/16	10	5/16	1.00	.0394	20	3/4	180	20
B14F1	2.5	3/32	10	3/8	10	5/16	1.25	.0492	20	3/4	180	20
B14F1	3	1/8	10	3/8	10	3/8	1.50	.0591	20	3/4	180	20

Loroch

Ø 150 6"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
Form	U		X1		X2		R		T		Grit	Bore
B14F1	1.3	3/64	5	13/64	8	5/16	0.65	.0256	8	5/16	180	32
B14F1	1.6	1/16	5	13/64	8	5/16	0.80	.0315	8	5/16	180	32
B14F1	2	5/64	5	13/64	8	5/16	1.00	.0394	8	5/16	180	32
B14F1	2.5	3/32	5	13/64	8.5	11/32	1.25	.0492	8	5/16	180	32
B14F1	3	1/8	6	1/4	10	3/8	1.50	.0591	8	5/16	180	32

Ø 200 8"	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
Form	U		X1		X2		R		T		Grit	Bore
B14F1	1.3	3/64	5	13/64	8	5/16	0.65	.0256	8	5/16	180	32
B14F1	1.6	1/16	5	13/64	8	5/16	0.80	.0315	8	5/16	180	32
B14F1	2	5/64	5	13/64	8	5/16	1.00	.0394	8	5/16	180	32
B14F1	2.5	3/32	5	13/64	8.5	11/32	1.25	.0492	8	5/16	180	32
B14F1	3	1/8	6	1/4	10	3/8	1.50	.0591	8	5/16	180	32

Other specifications available upon request



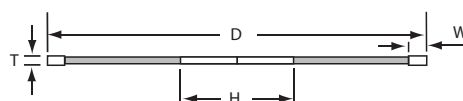
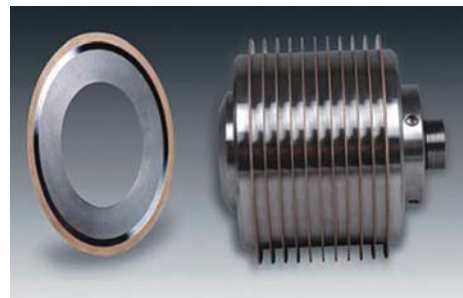
ULTRA THIN & PRECISION DIAMOND & CBN BLADES

Ultra Thin and Precision Diamond Wheels are widely used for cutting, dicing and slicing of nonmetal materials, such as semiconductor materials, PCB, tungsten carbide, glass, ceramics, quartz, crystal, magnetic materials etc.

Ultra thin & precision CBN wheels are used for cutting and slotting of metallic materials, such as high speed steels, tool steels, mold steels, alloy steels etc.

METAL BONDED ULTRA THIN & PRECISION DIAMONDBLADES

Metal sintered ultra thin and precision diamond blades are specially of strong-hold grains, good rigidity and excellent wearability. They are used in cutting and grooving of electronic, optical, ceramic, semiconductor materials etc.



Specification and Tolerance

Types	(mm)	(mm)	Abrasive	Concentration	Bond	Tolerance
1A8	<150	≥0.15	D, CBN	50, 75, 100	M	±0.01
1A1R	<150	≥0,30	D, CBN		M	±0.01
1A1RS	<150	≥0.30	D, CBN		M	±0.01

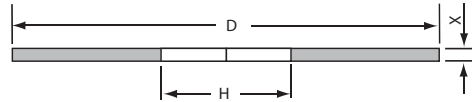


ULTRA THIN & PRECISION DIAMOND & CBN BLADES

RESIN BONDED ULTRA THIN & PRECISION DIAMOND BLADES

Compared with metal bonded wheels, ultra thin and precision resin bonded diamond blades are more aggressive, more elastic and have a strong self-sharpening ability.

These wheels are designed for high efficient cutting and processing of harder and fragiler materials such as glass, quartz, ceramics, etc.



Specification and Tolerance

T	D	30~60	60~80	80~110	110~120	120~150	T-Tolerance
0.1							±0.005
0.2							
0.3							
0.4							
0.5							±0.010
0.8							
1.0							
1.5							
2.0							

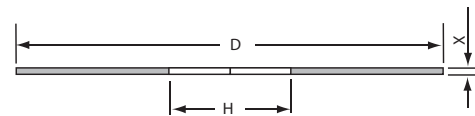
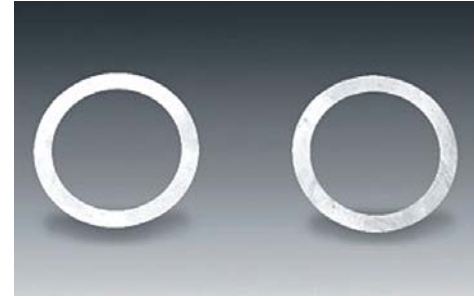


ULTRA THIN & PRECISION DIAMOND & CBN BLADES

ELECTROFORMED ULTRA THIN & PRECISION DIAMOND BLADES

This product is electroformed with excellent cutting ability and high efficiency.

For dicing and slitting of materials such as semiconductors, electronic components, ceramics, CPS etc.



DD (mm)	Thickness (mm)	Materials	Grits	Hardness	Con	T-Tolerance
	0.015~0.020	CBN	4500#	S N H	50	±0.002 ~ ±0.005
	0.020~0.030		4000#			
	0.030~0.040		3500#			
	0.040~0.050		3000#			
	0.050~0.060	SD	2000#		90	
	0.060~0.065		1500#			
	0.065~0.075		1200#			
	0.075~0.080		1000#			
	0.080~0.090		800#		110	
	0.090~0.100		700#			
	0.100~0.120		600#		130	
	0.120~0.150		500#			
	0.150~0.160		400#			
	0.160~0.180		320#			
	0.180~0.200		280#		150	
	0.200~0.300		240#			
				180		

SPECIAL SHAPE WHEELS

D	Thickness	H	Angle	Slot Size	Shape of Edge
55.6	x 0.1	x 19.05	x 45°	D800N50M - X3	- T1
			θ	X1 4 Depth: 1mm	T1
				X2 8 Depth: 1mm	T2
				X3 16 Depth: 1mm	T3
					T4



ULTRA THIN & PRECISION DIAMOND & CBN BLADES

ELECTRODEPOSIT DIAMOND BLADES WITH HUB

The diamond blade with hub has a stronger edge, which makes the blade more rigid and keeps the edge from damage.

High efficiency cutting especially for dicing of Si-wafers.

Thickness: 0.015~0.140 mm

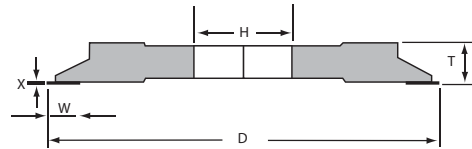
Electroformed Bond

Different concentration and hardness available

Grit: 600#~4800#



Wheel Markings



D	T	H	D	2000	N	50	Me	B	25
OD	T	Hole	Materials	GRIT	Hardness	Con	Bond	Slot Width	Exposure





Specification and Tolerance

D & H (mm)	Material	Grits	Cutting Width (m)	Edge Exposure (mm)											H	C
				0.380 -0.510	0.510 -0.640	0.640 -0.760	0.760 -0.890	0.890 -1.020	1.020 -1.150	1.150 -1.300	1.300 -1.400	1.400 -1.650				
H 19.05	SD	4800#	15-20	A	A10	A15									S	50
		4500#	20-25	B	B10	B15	B20									70
		4000#	25-30	C	C10	C15	C20	C25	C30						N	90
		3500#	30-35	D	D10	D15	D20	D25	D30	D35						110
		3000#	35-40	E	E10	E15	E20	E25	E30	E35	E40					130
		2000#	40-50	F	F10	F15	F20	F25	F30	F35	F40	F45				150
H 31.75	CBN	1800#	50-60	G	G10	G15	G20	G25	G30	G35	G40	G45		H	180	
		1500#	60-80	H	H10	H15	H20	H25	H30	H35	H40	H45			130	
		1000#	80-90	I		I15	I20	I25	I30	I35	I40	I45	I50		150	
		800#	90-100	J			J20	325	330	J35	340	J45	J50		180	
		700#	100-115	K				K25	K30	K35	K40	K45	K50		150	
		600#	115-130	L					L30	L35	L40	L45	L50		180	
		500#	130-140	M					M30	M35	M40	M45	M50		180	



ULTRA THIN & PRECISION DIAMOND & CBN BLADES

SPECIAL SHAPE WHEELS

55.6	x 0.1	x 19.05	x 45°	D800N50M	- X3	- T1
D	Thickness	H	Angle	Slot Size	Shape of Edge	
			θ	X1 4 Depth: 1mm	T1	
				X2 8 Depth: 1mm	T2	
				X3 16 Depth: 1mm	T3	
					T4	

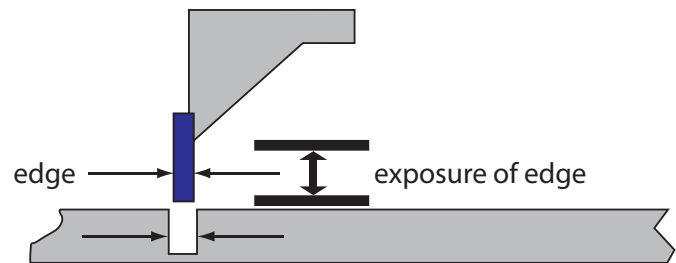
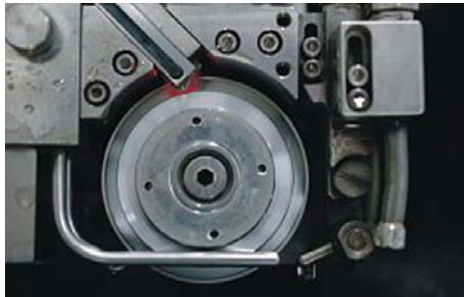


Illustration of thickness and slot

WAFER BACK & FRONT WHEEL



The Wafer back & front diamond wheel is mainly used for the thinning and finishing of silicon wafers and other compound semiconductor wafers.

These wheels are produced with resin and vitrified bonds and feature free cutting, wear resistance, good shape maintainability and long durability.

Specification and Tolerance

Type	D (mm)	(mm)	H (mm)	D	Grit	Bond	Con.
6A2T	175-335	20-45	76-235	D	D54-D4.6	B, V	100

Compatible machines: DISCO, OKAMOTO, TSK, STRASBAUGH and more.

VITRIFIED DIAMOND & CBN WHEELS



Vitrified diamond and CBN wheels have the better elasticity, higher sharpness and easier truing and dressing features compared to metal bonded wheels. They also have the excellent shape maintainability, thermal stability and longer durability compared to resin bonded wheels.

Vitrified diamond wheels are suitable for high-precision processing of non-ferrous materials such as tungsten carbide, ceramics, glass, PCD, PCBN, CVD, raw diamonds, stones, etc.

Vitrified CBN wheels are suitable for high-precision processing of ferrous materials such as cast iron, bearing steels, high speed steels, heat resistant alloys, etc.

These products have been used for various applications in different fields, such as bearing, compressor, automobile, aerospace, general industries, etc.



VITRIFIED DIAMOND WHEELS

Vitrified diamond wheels have been widely used in the fields of tungsten carbide, ceramics, glasses, PCD, PCBN, CVD, natural diamond, stones, etc. These products are excellent for high speed grinding and display high strength, long durability, good shape maintainability, excellent sharpness etc.

Many wheels - compact or porous - with different concentration or different hardness can be supplied according to our customer's various applications.

Special wheels for PCD, diamond and gemstones have been exported to many countries.



Compact & porous structure



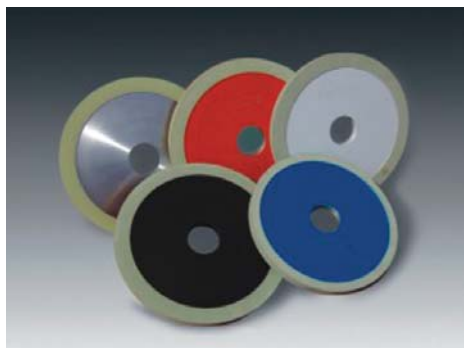
VITRIFIED DIAMOND & CBN WHEELS



FOR PCD

Vitrified diamond wheels are made with low temperature vitrified bond and high quality CBN. These wheels feature excellent sharpness, long durability, good grinding quality and are easily trued and dressed.

Grits are from 500[#]-4000[#] for coarse, fine grinding and polishing.



FOR DIAMONDS AND GEMSTONES

These wheels are used for the grinding of raw diamonds and gemstones and feature good shape maintainability, sharpness and durability.

Different structures from compact to porous can be supplied.

Specification

Type	D (mm)	T (mm)	H (mm)	Structure
1A1	50-500 mm	5-50	On request	Compact to Porous



VITRIFIED CBN WHEELS

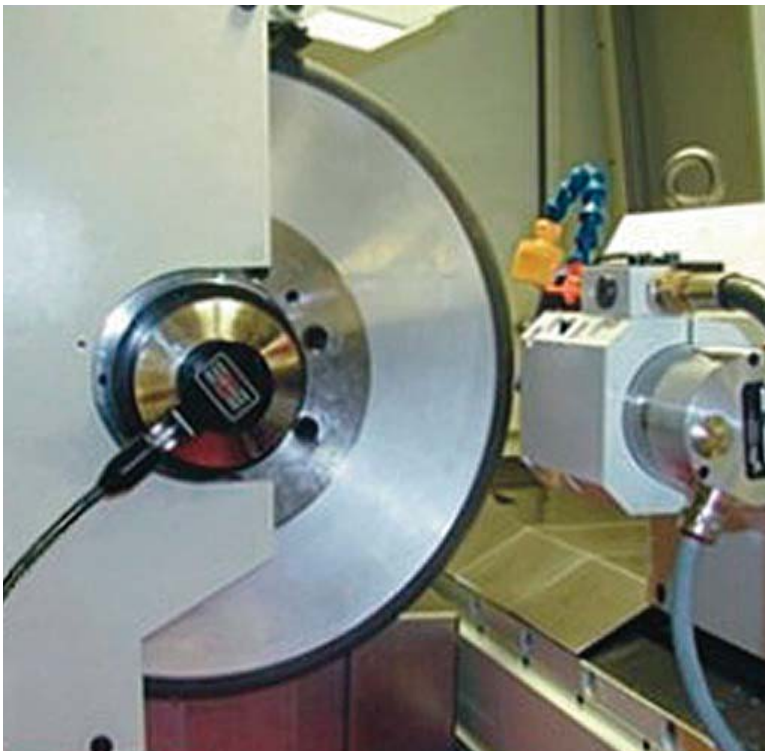
SURFACE & CYLINDRICAL GRINDING WHEEL

Vitrified CBN surface & cylindrical grinding wheels are widely used in the fields of compressors, automobiles, bearings, etc. to grind camshafts, crankshafts, shafts, spindles, bearings.

They are as well used for creep feed grinding, slot grinding, etc.



Surface & Cylindrical



Running wheel



Wheels for parts of compressor



Wheels for crankshaft & camshaft



VITRIFIED CBN WHEELS

INTERNAL GRINDING WHEEL

Internal grinding wheels have been widely used in fields such as compressor, automobiles and bearings for high precision grinding of joints, bearings, injector nozzles, gearboxes etc.



Wheels for compressor housing and bearing



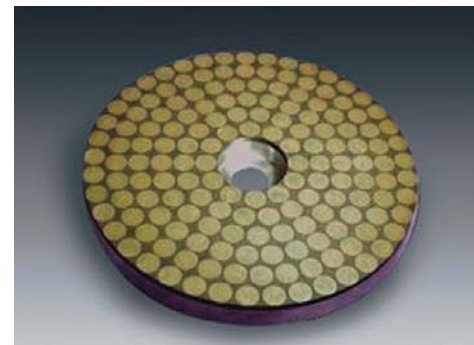
Wheels for compressor piston



Wheels for compressor cylinder

CUP & RING TYPE GRINDING WHEEL

Cup & ring wheels are widely used for high precision end or surface grinding of ferrous materials such as transmissions, automobiles, compressor parts and bearings.



ELECTROPLATED DIAMOND & CBN WHEELS

SURFACE & CYLINDRICAL GRINDING WHEEL

Electroplated and electrodeposit diamond and CBN wheels feature free-faster cutting, non-truing and dressing, less heating, and they can be made simply into any shapes.



Wheels for Precision Profile Grinding



Wheels for jig grinding

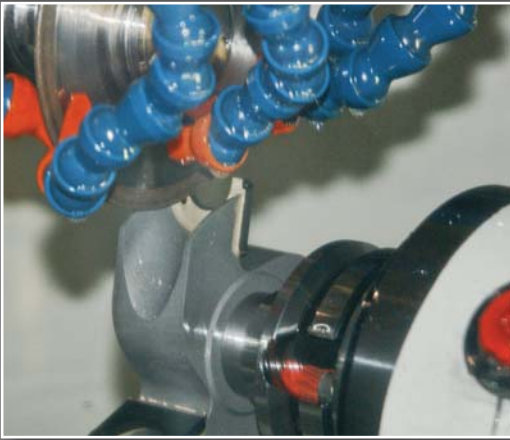


Wheels for precision groove polishing



Wheels for daimond polishing





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