

Metal Bond Blades

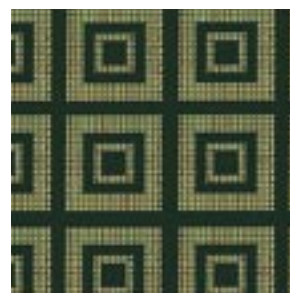
B1A SERIES



Precision Processing of Hard-to-Cut Materials

Sintered metal powder is used as the bonding agent material to realize strong holding power. As a result, these blades have low blade wear. They are excellent for accurate cutting or grooving of electronic devices such as CSP packages, ceramics and optical materials. Also, since they have both excellent rigidity and cutting ability there is low risk of wavy cutting.

- Minimized blade wear and high cutting ability
- High rigidity - minimized wavy and slant cutting
- Wide variety of bond types for various applications.
- Able to precisely control diamond concentration to achieve cutting quality



CSP



Ceramics

Applications

Electronic parts, optical devices, various types of semiconductor packages, ceramics, mono-crystal ferrite, glass, etc.



ISO 9001
JQA-0954



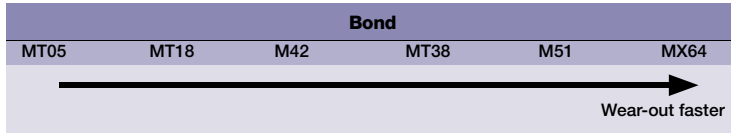
REGISTERED ORGANIZATION
No. E892-ISO 14001

Processing Data

Metal Bond Blades

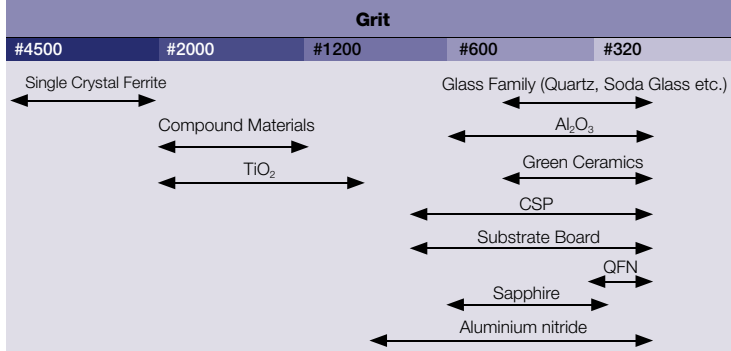
B1A SERIES

Comparison of cutting efficiency for bond types



The above shows the tendency of the process result when a dresser board is cut. Depending on the cutting conditions and type of material, the tendency may vary. Therefore, this shall only be used as a reference.

Application by grit size



Specifications

B 1A8 0 3 S3 SD 600 N 50 M42 54 x 0.15 x 40

Basic Shape	Internal Code ¹	Thickness Accuracy	Slit ³	Abrasive Type	Grit Size	Bonding Strength ¹	Concentration	Bond ¹	O.D.	Thickness	I.D.			
1A8	0	1 Standard accuracy ²	S1 No. of slits 4 Depth 1mm	SD Synthetic diamond	6000 #6000	Low	25	M42	54	0.15	40			
		2 ±0.005			5000 #5000									
1E8		3 ±0.002 (mm)	S2 No. of slits 8 Depth 1mm	SDC Coated Synthetic diamond	4000 #4000							High	75	
					3000 #3000									
1M8		6	*2 Varies according to the blade.	S3 No. of slits 16 Depth 1mm	B CBN							2000 #2000	100	125
1N8												S5 No. of slits 40 Depth 1mm		
	1500 #1500													
1V8	SS Optional				1200 #1200									
				1000 #1000										
					800 #800									
					600 #600									
					500 #500									
					400 #400									
					360 #360									
					320 #320									
					280 #280									

*1 Regarding the combination of blades
Internal code and bonding strength of each blade correspond to the bond type. Please refer to the chart below.

Internal Code	Bonding Strength	Bond
0	N	M42
	L	M51
6	L	MT38
	P	MX64
	P	MT05
		MT18

Standard blade types⁴

Bond: M42, M51

Thickness	0.1~	0.15~	0.2~	0.4~1.0 (mm)
Grit Size	#600~#6000	#400~#6000	#320~#6000	#400~#6000
O.D.				
50~under63.5				
63.5~80				

*4 Please contact a Disco representative for details.

Bond: MT05, MT18, MT38, MX64

Thickness	0.15~1.0 (mm)
Grit Size	#400~#6000
O.D.	
50~under63.5	
63.5~80	

MT05, MT18 bond is out of this standard specification range

When ordering

Please contact a Disco representative with your product needs such as type, thickness, outer and inner diameter, and quantity.

When you place the first order with us, please explain application information such as materials to cut or grind, sizes, shape, machine, type, and other specification.

We are ready to help you to determine which is our most appropriate product type for your application.

Due to improvements in our products, it is possible that product specifications may be changed without advanced notice. Please confirm the product specifications with a Disco representative.



To use these Disco wheels safely...

Please read carefully and follow the instructions below to prevent any accidents or injuries.

- USE a safety cover (nozzle case, cover), equipped as a standard accessory, to avoid injury.
- DO NOT EXCEED the maximum rpm if it is specified.
- FOLLOW the instruction manual of the machine to mount wheel properly.
- DO NOT DROP OR HIT wheels. This may cause wheel breakage or injury.
- Always CHECK the wheel for chipping or any other wheel damage before starting to use the wheel. DO NOT USE the wheel if there is any damage.
- READ the operation manual of the cutting/ grinding equipment before use.
- DO NOT USE a wheel with a modified or customized equipment.
- DO NOT USE a wheel that has a different size from the one recommended for your machine.
- DO NOT USE a wheel for any other purpose than Grinding, Cutting, or Polishing.
- Always USE water or coolant to prevent wheel breakage.

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