



Metal Bond Blades B1ASERIES

Realizes precise processing of difficult to cut material based on superior wear resistance and rigidity





Precision Processing of Hardto-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.

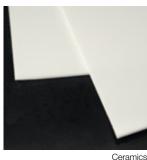


achieve cutting quality

· 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









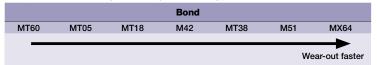


Applications

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

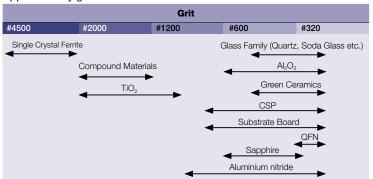
Processing Data

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



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Specifications

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

		72												
Basic Shape	Internal Code ⁻¹	Thickness ² Accuracy		Slit ^{*4}	Al	brasive Type	Gri	t Size	Bonding Strength	Concentration	Bond ^{*1}	O.D.	Thicknes	s I.D.
1A8		1 Standard accuracy ¹³	S1	No.of slits 4	SD	Synthetic	6000	#6000		25 Low				
		2 ±0.005	<u> </u>	Depth 1mm		diamond	5000	#5000		50				
1=0		3 ±0.002	S2	No.of slits 8	SDC	Coated Synthetic		#4000		75				
1E8		(mm)		Depth 1mm		diamond		#3000		100				
		*2 Possible accuracy differs depending	S3	No.of slits 16	В	CBN		#2000		125	*1 Regard	ina the co	mbination of	blades
1M8		on the product and size.		Depth 1mm	BC	Coated	1700	#1700		150 High	Internal co	de and b	onding streng	th of each
TIVIO		*3 Standard accuracy	S5	No.of slits 40		CBN	1500	#1500			blade corr refer to the		o the bond ty ow.	pe. Please
		differs depending on the product and		Depth 1mm			1200	#1200					Bonding	
1N8		size.	SS	Optional			1000				Internal	Code	Strength	Bond
				'			800	#800			0		Ν -	M42
				I slit widths are 0.5mm xcept for the SS type)			600	#600						M51
1V8			(0	Noopt for the GO type,			500	#500					L -	MT38
							400	#400				_		MX64
							360	#360			6			MT05
							320	#320					Ρ _	MT18
Standard blad	do tupos*5						280	#280						MT60

Standard blade types^{*5}

Bond: M42, M51							
	Thickness	0.1~	0.15~	0.2~	0.4~1.0		
	Grit Size O.D.	#600~#6000	#400~#6000	#320~#6000	#400~#6000		
	50~ under63.5						
	63.5~80						



Bond: MT60,MT05,MT18,MT38,MX64

Thickness	0.15~1.0	(mm)
Grit Size O.D.	#400~#6000	MT60,MT05,
50~ under63.5		MT18 bond is out of this standard specification
63.5~80		range

*5 Please contact a Disco representative for details.

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

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...

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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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