



Metal Bond/Resin Bond Blades with Steel Core

A1A/K1Aseries

Maximizes blade rigidity with an integrated steel core





Steel Core Blades - High load, Deep Cut Processing

Disco has combined a steel core with metal bond blades and resin bond blades to attain high rigidity. As a result, when using multiple blades mounted on a slicer, deep cutting and high-load processing can be achieved. A wide variety of blade types are available for processing different applications.

- High rigidity is attained by combining a steel core with the blade
- Maximum outer diameter is 205 mm

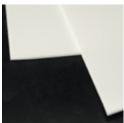




A1A Series - Metal Bond

High rigidity. Long Life

The long life of the metal bond and the high rigidity of the steel core enables deep cutting of hard materials such as ceramics and ferrite.



Ceramics

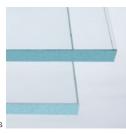
Applications

Ceramics, various types of glass, ferrite, etc.

K1A Series - Resin Bond

High rigidity, Enhanced Quality

The excellent cutting ability of the resin bond and the rigidity of the steel core allows cutting and grooving of glass and crystal materials.



Glass

Applications

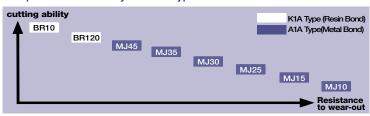
Ceramics, various types of glass, ferrite, etc.





Processing Data

Comparison of efficiency for bond types

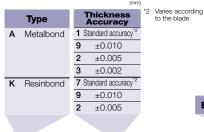


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Specifications



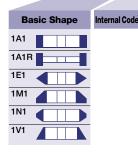
Bonding Strength

Bond

O.D. Thickness I.D.

1 S2 SDC 320 L 50 6 **MJ45**

76.2 × 0.4 × 40



1	Slit (Available for A1A Type only)*3						
	O.D.		76.2 80	100 101.6	125 127	150 152.4	200 205
	S1	No.of slits	8	8	16	16	16
		Depth	7mm	10mm	12mm	15mm	15mm
	S2	No.of slits	72	80	80	80	80
	02	Depth	2mm	2mm	2mm	2mm	2mm
	Larg	e No.of slits	8	8	16	16	16
	Slit	Depth	7mm	10mm	12mm	15mm	15mm
	S3 Sma	II No.of slits	64	64	64	64	64
	Slit	Depth	2mm	2mm	2mm	2mm	2mm
	SS Optional						

^{*3} All slit widths are 0.5mm (except for the SS type)

The specification of standard slits varies according to the outer diameter of the blade. When placing orders, please refer to the chart above.

Abrasive T	уре	Grit	Size	Concentration
SD Synthe	tic	800	#800	25
Diamo	nd	600	#600	50
SDC Coate		500	#500	75
Synthetic Dia	amond -	400	#400	100
B CBN		360	#360	125
BC Coate		320	#320	
CBN		280	#280	
		240	#240	
		220	#220	
		180	#180	
		150	#150	
		120	#120	
	_	100	#100	

80

#80

(mm)

*1 Regarding the combination of blades

Internal code and bonding strength of each blade correspond to the bond type. Please refer to the chart

	Delow.					
	Internal Code	Bonding Strength	Bond			
	Metalbond					
			MJ30			
	6	L	MJ35			
			MJ45			
		N	MJ25			
		Р.	MJ10			
		F	MJ15			
Ī	Resinbond					
	6	N	BR10			
		IN	BR120			

Standard specification range^{*4}

A1A Type (Metal Bond) (mm)						
Thickness ⁵	0.3~	0.4~	0.5~	0.7~3.0		
Grit Size O.D.	#180~#800	#120~#800	#100~#800	#80~#800		
76.2,80						
100,101.6						
125,127						
150,152.4						
200,205						

K1A Type (Resin Bond)

0.3~	0.4~	0.5~	0.7~3.0
#180~#800	#120~#800	#100~#800	#80~#800
			3.0

K1A1R is out of this standard specification range. Available for K1A1R

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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^{*4} Please contact a Disco representative for details

^{*5 &}quot;Thickness" means the thickness of diamonds' laver, (The thinnest steel core is 0.3mm)

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