

Resin Bond Blades

P1A SERIES

With an emphasis on cutting performance, this blade provides high processing quality for difficult to cut material



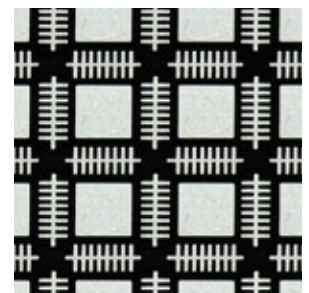
Processing Hard Materials

These sintered diamond blades employ thermo-setting resin as the bonding material which provides active self-sharpening and elasticity characteristics. They are suitable for processing of hard-to-cut materials such as glass and crystal materials.

- Suitable for highly fragile materials such as glass
- A wide variety of bond types are available
- Able to precisely control diamond concentration to achieve cutting quality



Glass



QFN

Applications

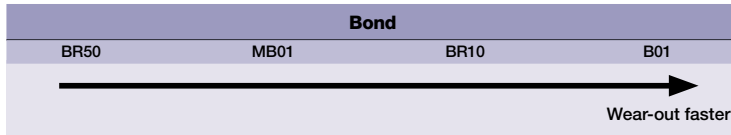
Glass, crystal, quartz, lithium tantalate, various types of semiconductor packages, ceramics, etc.

Processing Data

Resin Bond Blades

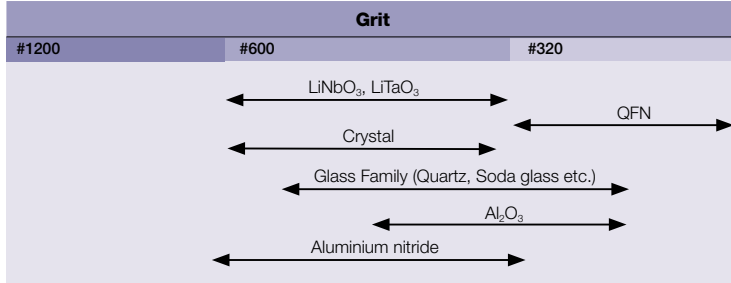
P1A SERIES

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

P 1A8 6 3 SD 600 N 50 BR50 54 x 0.15 x 40

Type ^{*1}	Basic Shape	Internal Code	Thickness Accuracy ^{*2}	Abrasive Type	Grit Size	Bonding Strength ^{*1}	Concentration ^{*1}	Bond ^{*1}	O.D.	Thickness	I.D.
G	1A8	5	1 Standard accuracy ^{*3}	SD Synthetic diamond	6000 #6000	R	13	B01	54	0.15	40
P	1E8		2 ±0.005	SDC Coated Synthetic diamond	5000 #5000						
	1M8		3 ±0.002 (mm)	B CBN	4000 #4000						
	1N8	6	Standard accuracy differs depending on the product and size.	BC Coated CBN	3000 #3000	N	21	MB01	54	0.15	40
	1V8			2000 #2000							
				1700 #1700							
				1500 #1500							
				1200 #1200							
				1000 #1000							
		800 #800									
		600 #600									
		500 #500									
		400 #400									
		360 #360									
		320 #320									
		280 #280									

*1 Regarding the combination of blades

The type, internal code, bonding strength, and concentration of each blade correspond to the bond type. Please refer to the chart below.

Type	Internal Code	Bonding Strength	Concentration	Bond
G	5	R	13	B01
			12	
			11	
P	6	N	21	MB01
			10	
P	6	N	25	BR10
			50	
			75	
			100	

Standard blade types^{*4}

Bond: B01, MB01	Thickness	Grit Size	O.D.
0.05~	#1000~#6000		
0.06~	#800~#6000		
0.08~	#600~#6000		
0.1~	#400~#6000		
0.15~0.7			
50 ~under52.5			
52.5 ~under63.5			
63.5~88.9			

Bond: BR10, BR50	Thickness	Grit Size	O.D.
0.1~	#400~#5000		
0.15~			
0.3~1.0			
50 ~under63.5			
63.5 ~76.2			

BR10 bond is out of this standard specification range.

*4 Please contact a Disco representative for details.
G1A: #4000 and bigger grit blades are available.

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.

DISCO



ASIA :
DISCO HI-TEC (SINGAPORE) PTE., LTD.
 Blk 2 Kaki Bukit Ave.1 #03-06/08 Kaki Bukit Industrial Estate Singapore 417938
 Phone: 65-6747-3737 Fax: 65-6745-0266
DISCO HI-TEC (MALAYSIA) SDN. BHD.
 Penang Regional Office
 Phone: 60-3-8024-6588 Fax: 60-3-8024-1311
 Phone: 60-4-644-5502 Fax: 60-4-645-2285
DISCO HI-TEC (THAILAND) CO., LTD.
 Phone: 66-2-618-8441 Fax: 66-2-618-8440
DISCO TECHNOLOGY (SHANGHAI) CO., LTD.
 Area E, 3rd Floor, Building A1 No.381 FuTeXiYi Road, WaigaoQiao Free Trade Zone, Shanghai 200131 P.R. CHINA
 Phone: 86-21-58662516 Fax: 86-21-58662517
 Tianjin Service & Technical Support Center
 Phone: 86-022-24381973 Fax: 86-022-24381637
 Dongguan Service & Technical Support Center
 Phone: 86-769-86334981 Fax: 86-769-86334559
 Suzhou Office
 Phone: 86-512-67629081 Fax: 86-512-67629082

Chengdu Office
 Phone: 86-28-86528592 Fax: 86-28-86528591

ASIA AGENT :
New Tronics Co., Ltd.
 Flat F, 11th Floor, Valiant Ind. Bldg. 2-12 Au Pui Wan Street, Fotan Shantin, N.T. HONG KONG
 Phone: 852-26871431 Fax: 852-26874283
Happy Pole, Ltd.
 8F-1, No.41 Section 2, Roosevelt Road Taipei, Taiwan R.O.C.
 Phone: 886-2-23980651 Fax: 886-2-23943943

Aurotech Corporation
 2021 Buencamino Street Alabang, Muntinlupa PHILIPPINES
 Phone: 63-2-809-0155 Fax: 63-2-807-7419
DHK Solution Corporation
 13F, Sanhak Jaedan Building, 1337-31, Seocho-dong, Seocho-gu, Seoul, Korea
 Phone: 82-2-3415-1122 Fax: 82-2-3415-1441

U.S.A. :
DISCO HI-TEC AMERICA, INC.
 3270 Scott Blvd. Santa Clara, CA 95054-3011 U.S.A.
 Phone: 1-408-987-3776 Fax: 1-408-987-3785

Eastern Regional Sales & Service Office
 Phone: 1-603-658-9019 Fax: 1-603-658-9018
 Southeastern Regional Sales & Service Office
 Phone: 1-919-468-6003 Fax: 1-919-468-6004
 Central Regional Sales & Service Office
 Phone: 1-972-267-9500 Fax: 1-972-267-5612
 Southwestern Regional Sales & Service Office
 Phone: 1-602-431-1412 Fax: 1-602-431-1437
 Northwest Regional Sales & Service Office
 Phone: 1-503-644-0323 Fax: 1-503-643-8108

EUROPE :
DISCO HI-TEC EUROPE GmbH
 Liebigstrasse 8 D-85551 Kirchheim b. Muenchen Germany
 Phone: 49-89-90903-0 Fax: 49-89-90903-199
DISCO HI-TEC FRANCE SARL Provence Head Office
 Phone: 33-4-42-91-00-20 Fax: 33-4-42-91-00-29
DISCO HI-TEC U.K. LTD.
 Phone: 44-1342-313165 Fax: 44-1342-313177
DISCO HI-TEC MOROCCO SARL
 Phone: 212-6-136-94-04 Fax: 212-22-97-38-88

DISCO CORPORATION
 13-11 Omori-Kita 2-chome, Ota-ku, Tokyo 143-8580, Japan
 Tel:03-4590-1100 Fax:03-4590-1075 • www.disco.co.jp