



DISCO

Kiru · Kezuru · Migaku Technologies



Grinding Wheels GF01 SERIES

Realizes optimum wheel life by employing a new base



Improved Grinding Performance and Consistency

The newly developed GF01 Series in-feed grinding wheels feature a special aluminum base unique to DISCO. This base delivers grinding water even more efficiently than that of the IF Series, resulting in highly consistent processing and optimized wheel life.

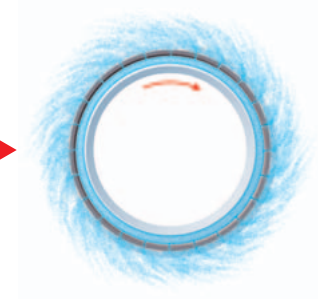
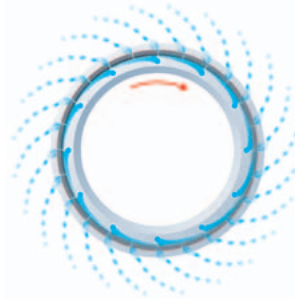
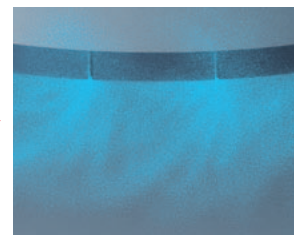
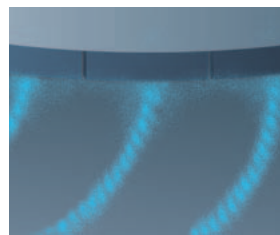
- Special wheel base delivers grinding water in a highly efficient manner
- Bond selection is identical to that of IF Series, making transition easy.
- Series offers highly precise grinding results and exceptionally consistent grinding performance.
- Uses packaging made with environmentally-friendly PP or ABS resin.



Pattern of Grinding water Delivery

IF Series Design

New GF01 Series Design



Applications

Silicon wafers, Compound semiconductor wafers, Crystal materials for electronics components, etc.

Product Lineup

By combining various bond types and grit sizes, the GF01 Series realizes stable processing of film and thin grinding of the wafer backside.

Rough Grinding

Handles a variety of materials, including oxide and nitride layers, and realizes consistent processing results.

VS : Standard bond BT300: Bond realizing both good processing quality and long life
BT100: For Ultra-thin grinding

Fine Grinding

Specially-formulated resin bonds allow for reduced depth of damage and highly dependable grinding quality. Designed for improved TTV and surface roughness, GF01 Series fine-grinding wheels combine high processing quality with optimized wheel life.

BK01: For enhanced grinding performance BK02: For reduced wheel wear
BK04: Standard bond BK09: For high-load grinding

Grinding Wheels GF01 SERIES



Specifications

Grit type	Wheel size (mm)	Tooth indication	Shape	Arrangement
SD Synthetic Diamond	200	ST	Segment	Triangular
SDC Coated Synthetic Diamond	300	SR	Segment	Circular
Special specification	300	WS	Special	Special

GF01-SD 360-VS-100 -A** 200x4Wx4T - ST**

Grit size	Bond	Concentration	Tooth width	Tooth height
320 #320	VS	100	4.0	4.0
360 #360	BT100	50	4.0	5.0
400 #400	BT300	50	4.0	5.0
600 #600	BK01	200	4.0	5.0
800 #800	BK02	100	4.0	5.0
1000 #1000	BK04	100	2.0	5.0
1200 #1200	BK09	100	3.0	5.0
1400 #1400				
1500 #1500				
1700 #1700				
2000 #2000				
3000 #3000				
4000 #4000				

Tooth dimensions (mm)
These two columns reflect standard dimensions; dimensions may be varied to match the customer's specification.

Standard wheel types

Application	Bond	Grit size								
		#320	#360	#1200	#1400	#1500	#1700	#2000	#3000	#4000
Rough Grinding (Z1)	VS									
	BT100									
	BT300									
Fine Grinding (Z2)	BK01									
	BK02									
	BK04									
	BK09									

Bond selection will vary by application; please contact your DISCO representative for assistance.

Note on wheel selection

Processing results depend greatly on the combination of wheels for rough grinding (Z1) and fine grinding (Z2). DISCO offers expertise in process development to determine the right wheel for your application. Please contact your DISCO representative for details.

When ordering

Please contact a DISCO representative with your product needs such as type, wheel size, and quantity.

When you place the first order with us, please explain application information such as materials to grind, sizes, 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 blades and wheels (hereafter precision tooling) 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 specified rpm limit indicated on the precision tooling.
- FOLLOW the instruction manual of the equipment to mount the precision tooling properly.
- DO NOT DROP OR HIT the precision tooling. This may cause breakage or injury.
- Always CHECK the precision tooling for chipping or any other damage before starting to use it. DO NOT USE the tooling if there is any damage.
- READ the operation manual of the cutting/grinding equipment before use.
- DO NOT USE the precision tooling with modified or customized equipment.
- DO NOT USE precision tooling that has a different size from the one recommended for your equipment.
- DO NOT USE the precision tooling for any other purpose than grinding, cutting, or polishing.
- Always USE water or coolant to prevent precision tooling damage.



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