

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 coolant water even more efficiently than that of the IF series, resulting in highly consistent processing and optimized wheel life.

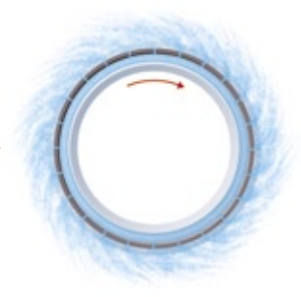
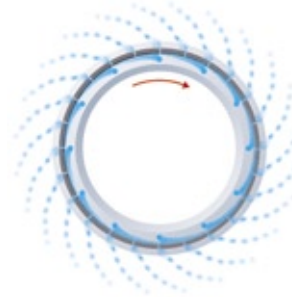
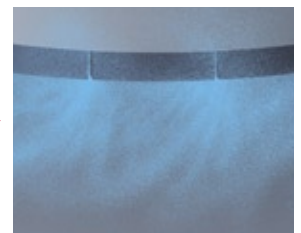
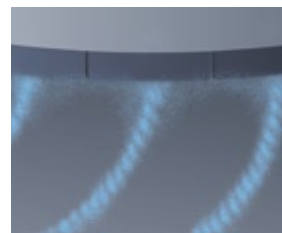
- Special wheel base delivers coolant water in a highly efficient manner
- Bond selection is identical to that of IF Series, making transition easy.
- Series offers highly precise grinding results and exceptionally consistent grinding performance.
- Packaging is made of environmentally-friendly polypropylene.



### Pattern of Coolant Delivery

IF Series Design

New GF01 Series Design



### Applications

*Silicon and compound semiconductor wafers, crystals and ceramics for electronic components, and many other substrates and materials, etc.*



ISO 9001  
JQA-0954



REGISTERED ORGANIZATION  
No. E892-ISO 14001

## Product Lineup

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### Rough Grinding

A combination of highly rigid vitrified bond and large diamond grit easily handles a wide variety of substrates, as well as tough oxide and nitride layers. Designed for high performance, GF01 Series rough-grinding wheels deliver consistent processing results.

**VS** : Standard bond      **VS202**: Lower-density bond for processing oxide layer wafers  
**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**: For general fine grinding (Disco standard bond)      **BK09**: For high-load grinding



## Specifications

Abrasive Type	Wheel Size (mm)		Tooth Type	Shape	Arrangement
	200	300			
SD Synthetic Diamond	200	300	ST	Segment	Triangular
	300	400	SR	Segment	Circular
	400		WS	Special	Special

## GF01-SD 360-VS-100 200x4Wx4T-ST

Grit Size	Bond	Concentration	Tooth Width	Tooth Thickness	
4000 #4000	VS	100	4.0	4.0	
3000 #3000	Rough Grinding (Z1)	VS202	4.0	4.0	
2000 #2000		BT100	4.0	5.0	
1700 #1700		BK01	200	4.0	5.0
1500 #1500	Fine Finish Grinding (Z2)	BK02	4.0	5.0	
1400 #1400		BK04	100	2.0	5.0
1200 #1200		BK09	100	3.0	5.0
1000 #1000					
800 #800					
600 #600					
400 #400					
360 #360					
320 #320					
280 #280					

— Tooth dimensions (mm)

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

### Standard wheel types

Use	Bond	Grit Size								
		#4000	#3000	#2000	#1700	#1500	#1400	#1200	#360	#320
Rough Grinding (Z1)	VS									
	VS202									
	BT100									
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 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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