



Grinding Wheels

GF01 SERIES

Realizes optimum wheel life by employing a new base

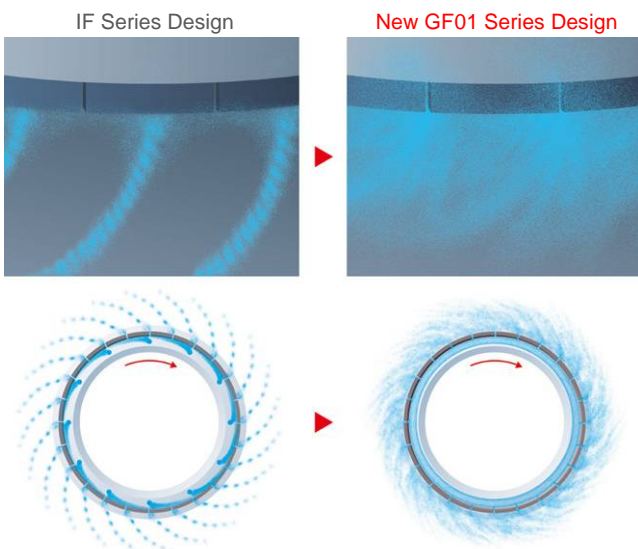
Improved Grinding Performance and Consistency

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



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 Ultrathin 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, the 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

Specifications

| Tooth indication | Shape | Arrangement |
|------------------|---------|-------------|
| ST | Segment | Triangular |
| SR | Segment | Circular |
| WS | Special | Special |

Special specification

GF01 – SD 360 – VS – 100 – A**** 200 × 4W × 4T – ST

| Grit type | Grit size | bond | Concentration | Wheel size | Tooth width | Tooth height |
|-----------|------------|---------------------------|---------------|-------------|-------------|--------------|
| SD | 320 #320 | VS | 100 | 200 | 4.0 | 4.0 |
| SDC | 360 #360 | Rough Grinding (Z1) | BT100 | 300 (mm) | 4.0 | 5.0 |
| | 400 #400 | | BT300 | | 4.0 | 5.0 |
| | 600 #600 | Fine Finish Grinding (Z2) | BK01 | | 4.0 | 5.0 |
| | 800 #800 | | BK02 | | 4.0 | 5.0 |
| | 1000 #1000 | | BK04 | | 2.0 | 5.0 |
| | 1200 #1200 | | BK09 | | 3.0 | 5.0 |
| | 1400 #1400 | | | | | |
| | 1500 #1500 | | | | | |
| | 1700 #1700 | | | | | |
| | 2000 #2000 | | | | | |
| | 3000 #3000 | | | | | |
| | 4000 #4000 | | | | | |

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

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.



DISCO CORPORATION

www.disco.co.jp