



DISCO

Kiru · Kezuru · Migaku Technologies



Grinding Wheels

GF01 SERIES **BT100/BT300**

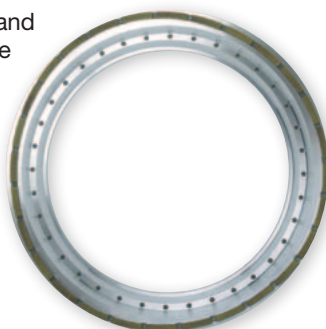
Rough Grinding Wheel Bond for Ultra-High Process Quality



BT100/BT300, a newly developed resin bond for rough grinding wheels, offers ultra-high grinding quality.

Adopting the newly developed resin bond enables reducing edge chipping and grinding damage which are problems in thin wafer grinding. The BT100 bond emphasizing quality and the BT300 bond emphasizing wheel life are available to offer a selection suitable for various needs.

- Newly developed resin bond offers ultra-high grinding quality.
- New wheel base (GF01) offers highly effective delivery of grinding water.
- The BT100 emphasizing quality and the BT300 emphasizing wheel life are available.



■ Wheel comparison



Applications

Silicon Wafers, etc.

Specifications

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

Special specification

GF01 - SD 320 - BT100 - 50 - A** 200 x 4W x 5T - ST**

Grit size		Bond	Concentration	Tooth width (mm)	Tooth height (mm)
320	#320				
		BT300	50	4.0	5.0

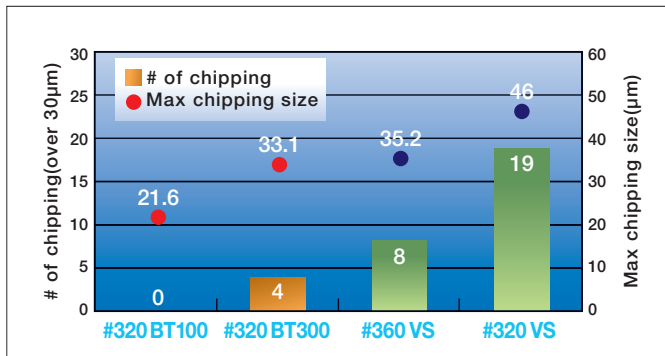
Grinding Wheels GF01 SERIES BT100/BT300



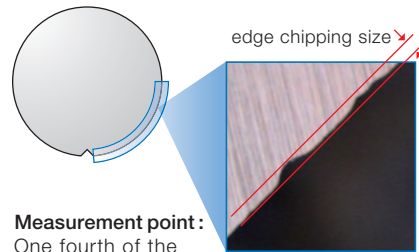
Experimental Data

The BT100/BT300 bond causes less edge chipping, compared with the existing vitrified bond.

Edge chipping



Workpiece : ø8" silicon mirror wafer
 Final grinding thickness : 100 µm
 Z2 removal amount : 35 µm
 Z2 Wheel used : IF-01-1-4/6-B-K09



Measurement point:
 One fourth of the circumference from the notch

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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