

Grinding Wheels Poligrind

A New Dimension in Kezuru Performance



Poligrind offers a new dimension in ultra-high-quality grinding.

Poligrind, the latest addition to Disco's lineup of precision grinding wheels, is designed to be used on the second spindle of precision in-feed grinders. Without any change in processes or addition of equipment, Poligrind helps improve post-grinding surface roughness, die strength, and overall process quality.

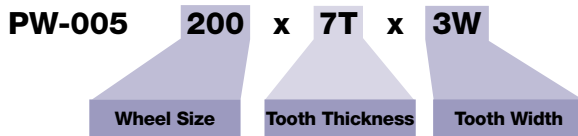
- Can be used with current grinding equipment.
- Improves die strength and other quality factors using current processes.
- Employs extremely fine grit to offer ultra-high-quality grinding results.
- Newly developed bond allows for high-load processing.



Applications

Silicon wafers, etc.

Specifications



Note: Due to ongoing research and development, product specification is subject to change without notice.

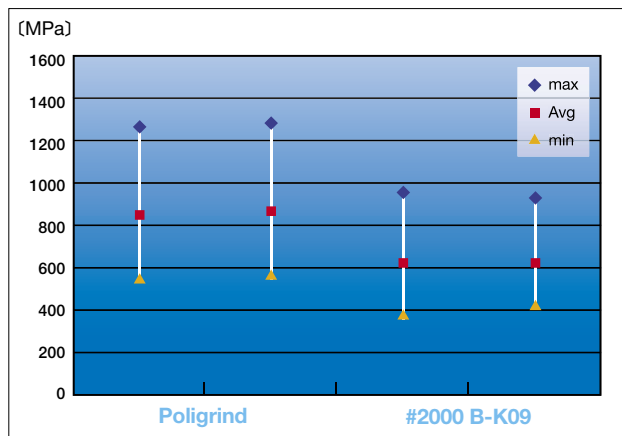
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Comparative Data with Previous Wheels

Compared to previous wheels, Poligrind-with its ultra-fine grit and newly developed bond-helps improve die strength, reduce surface roughness, and improve overall process quality.

Die strength (ball point breakage test)

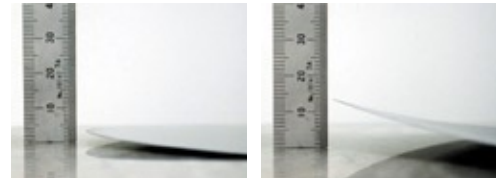


Workpiece: 8" silicon mirror wafer
Z2 removal amount: 35 µm
Final thickness: 200 µm

Assistance with Using Poligrind

To achieve the best processing results possible with Poligrind, correct formulation of the application is required. Disco's applications engineers will be happy to work with your workpiece and specifications to achieve the desired processing results.

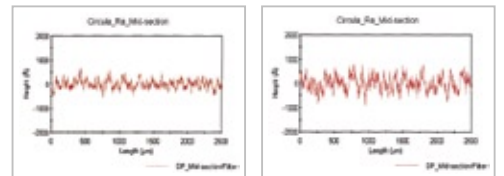
Warpage level



| Fine grinding wheel | Poligrind | #2000 B-K09 |
|---------------------|-----------|-------------|
| Warpage level | 3.5mm | 14.0mm |

Workpiece: 8" silicon mirror wafer
Z2 removal amount: 35 µm
Final thickness: 50 µm

Surface roughness



| Fine grinding wheel | Poligrind | #2000 B-K09 |
|---------------------|-----------|-------------|
| Ra(µm) | 0.0141 | 0.0240 |
| Rmax(µm) | 0.1153 | 0.1734 |

Workpiece: 8" silicon mirror wafer
Z2 removal amount: 35 µm
Measurement position: wafer center

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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