

NEW 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.

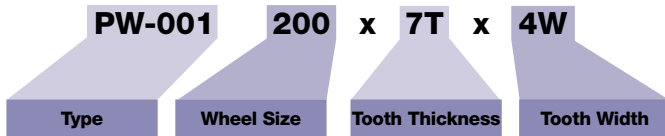
- Can be used with current grinding equipment.
- Improves die strength and other quality factors using current processes.
- Employs extremely fine grit to offer ultra-high-quality grinding results.
- Newly developed bond allows for high-load processing.



Applications

Silicon wafers.

Specifications



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

NEW Grinding Wheels

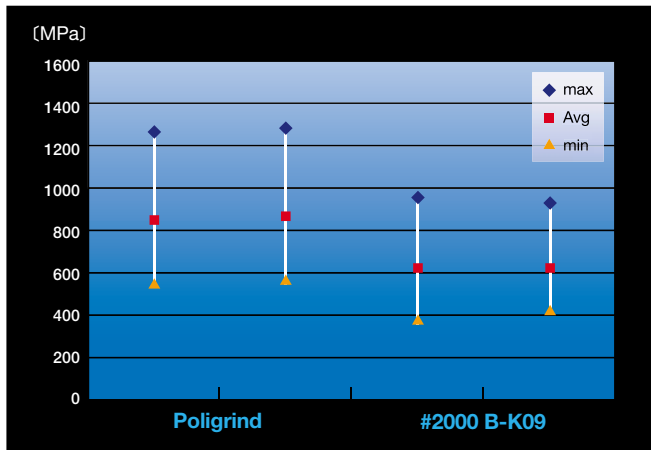
Poligrind



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.

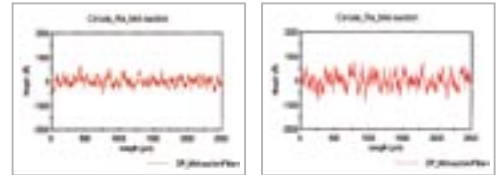
Warpage level



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(m)	0.0141	0.0240
Rmax(m)	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.

DISCO



ASIA :
DISCO HI-TEC (SINGAPORE) PTE., LTD.
Blk 2 Kaki Bukit Ave.1 #03-06/08 Kaki Bukit
Industrial Estate Singapore 417938
Phone:65-6747-3737 Fax: 65-6745-0266

DISCO HI-TEC (MALAYSIA) SDN. BHD.
Phone:60-3-8024-6588 Fax:60-3-8024-1311
Penang Regional Office
Phone:60-4-644-6502 Fax:60-4-645-2285

DISCO HI-TEC (THAILAND) CO., LTD.
Phone:66-2-6188441 Fax:66-2-6188440

DISCO TECHNOLOGY (SHANGHAI) CO., LTD.
Area E, 3rd Floor, Building A1 No.381 FuTeXiYi Road,
WaiGaoQiao Free Trade Zone Shanghai, P. R. China 200131
Phone:86-21-5866-2516 Fax: 86-21-5866-2517

ASIA AGENT :
New Tronics Co., Ltd.
Flat F, 11/F, Valiant Ind. Bldg. 2-12 Au Pui Wan Street,
Fotan Shantin, N.T. HONG KONG
Phone:852-26871431 Fax: 852-26874283

Happy Pole, Ltd.
8th Floor, 8-1, No.41 Section 2, Roosevelt Road Taipei,
Taiwan R.O.C.
Phone:886-22-3960651 Fax: 886-22-3943943

Aurotech Systems(Phil's), Inc.
121 Buencamino Street Alabang, Muntinlupa PHILIPPINES
Phone:63-2-809-0155 Fax: 63-2-807-7419

D.I. Corporation
D.I. Building 58-6 Nonhyun-Dong Kangnam-ku, Seoul KOREA
Phone:82-2-546-5501 Fax:82-2-3446-8087

U.S.A. :
DISCO HI-TEC AMERICA, INC.
3270 Scott Blvd. Santa Clara, CA 95054-3011 U.S.A.
Phone:1-408-987-3776 Fax:1-408-987-3785

Eastern Regional Sales & Service Office
Phone:1-603-656-9019 Fax:1-603-656-9018
Southeastern Regional Sales & Service Office
Phone:1-919-468-6003 Fax:1-919-468-6004
Central Regional Sales & Service Office
Phone:1-972-267-9500 Fax:1-972-267-5612

Southwestern Regional Sales & Service Office
Phone:1-602-431-1412 Fax:1-602-431-1437
Northwest Regional Sales & Service Office
Phone:1-503-644-0323 Fax:1-503-643-8108

EUROPE :
DISCO HI-TEC EUROPE GmbH
Liebigstrasse 8 D-85551 Kirchheim b.Muenchen Germany
Phone:49-89-90903-0 Fax:49-89-90903-199

DISCO HI-TEC FRANCE SARL Provence Head Office
Phone:33-442-910020 Fax:33-442-910029

DISCO HI-TEC U.K. LTD.
Phone:44-1342-313165 Fax:44-1342-313177
DISCO HI-TEC MOROCCO SARL
Phone:212-6-136-94-04 Fax:212-22-97-38-88

DISCO CORPORATION

13-11 Omori-Kita 2-chome, Ota-ku, Tokyo 143-8580, Japan
Tel:03-4590-1100 Fax:03-4590-1075 • www.disco.co.jp