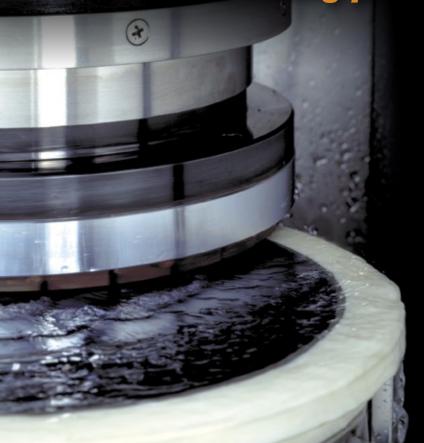




Fully Automatic In-Feed Surface Grinder DFG8540/8560

Advanced thinning power for large wafers





The Grinder of Choice

The DFG8540/8560 improved upon the functionality and performance that made the Disco 800 series the grinder of choice at installations around the world.

Thin Grinding (<100 microns)

Advanced handling systems and design features facilitate high yield for thin wafer grinding.

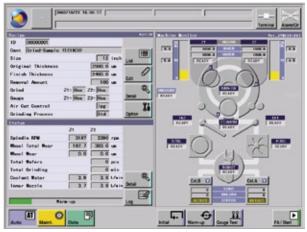
Design Flexibility

The DFG8540/8560 can be integrated with Disco's Dicing Before Grinding (DBG) system as well as polishers (DFP8140/8160) for in-line processing solutions.









LCD touch screen

Improved Grinding Quality

Through design innovation, both spindles now grind wafers at the same relative position. This improves single wafer thickness variation as well as wafer to wafer thickness variation.

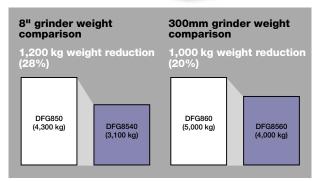
Backward-Compatibility

Can employ the same proven technology of the Disco 800-series grinding wheels, spindles, chuck tables and dresser boards.

Easy Operation

The DFG8540/8560 utilizes an LCD touch screen graphical user interface, making operation and maintenance intuitive and easy.





Environmental conditions

- Use clean, oil-free air at a dew point of -15 °C or less. (Use a residual oil: 0.1 ppm. Filtration rating: 0.01 μ m/99.5 % or more).
- Keep room temperature fluctuations within ± 1 °C of the set value. (Set value should be between 20 25 °C).
 Keep grinding water and cleaning water 2 °C above room temperature (fluctuations within 1 °C over one hour).
- Keep spindle cooling water temperature between 20 ~ 25 °C (fluctuations within 2 °C over an hour).
- The machines should be used in an environment, free from external vibration. Do not install machine near a ventilation opening, heat generation equipment or oil mist generating parts.
- This machine uses water.

 In case of water leakage, please install the machine on the floor with sufficient waterproofing and drainage treatments.
- *All the pressures are described using a gauge pressure.
- *The above specifications may change due to technical modifications. Please confirm when placing your order.
- * For further information please contact your local sales representatives.

Fully Automatic In-Feed Surface Grinder DFG8540/8560



DFG85	540/8560 Specifications				
	· · · · · · · · · · · · · · · · · · ·		DFG8540	DFG8560	
Wafer Dia	meter	mm	Max. Ø200 (ø4" ~ ø8")	Max.ø300 (ø8" ~ ø12")	
Grinding		-		vith wafer rotation	
Spindle	Туре			gh frequency motor	
Spiriule				on frequency motor	
	Number of axes	kW -	4.2	4.8	
	Output	min-1			
	Revolution speed	min .	1,000 ~ 7,000	1,000 ~ 4,000	
	Z-axis vertical stroke			zero point)	
	Z-axis vertical grinding feed speed	mm/s	0.0001~0.08		
	Z-axis vertical fast feed speed	mm/s		50	
	Min. Z-axis vertical movement	μm	0.1		
	Min. Z-axis vertical movement resolution		0.1		
Height Gauge	Measurement range	μm	0 ~ 1,800		
	Resolution	μm	0.1		
	Repeatability	μm	±0.5		
Wafer	Chuck table type	-	Porous chuck table		
Chuck Table	Chuck method	-	Vacuum		
lable	Number of revolutions	min ⁻¹	0 ~ 300		
	Number of chuck tables	-	3		
	Chuck table cleaning	-	Backflushing of water and compressed air is		
			combined with oilstone cleaning and brush cleaning		
	Spark Out (chuck table revolutions setting	g) -	0~	999	
Grinding Wheel	Diamond wheel	mm	ø200	ø300	
Wafer Hand	ling Section / Wafer Cleaning Section				
	Cassette storage quantity	-	2	2	
	Cassette flow	-	Same flow and open flow		
	Spinner unit	-	Water washing and drying		
Vacuum	Discharge speed	m³/h		0/60 Hz)	
Unit	Achievable pressure	kPa	-90 (water supply temperature 15 °C, water supply flow rate 1 L/min)		
	Electric motor	kW	1.5		
	Water flow rate				
	When supplied water temperature is greater than 22 °C	L/min	3		
	When supplied water temperature is less than 22 °C	L/min		1	
Grinding Accuracy Utilities	Thickness variation within one wafer	um	less than 1.5/when grinding	ø8" wafers with included chuck ta	
		um	less than ±3		
	Finish surface roughness	um	Ry 0.13 (with #2000 finish)		
	Power supply	μπ.	Ry 0.15 (with #1400 finish) 200 ~ 240 V AC±10 %, 3-phase (50/60 H.		
Cinicis	. S. Si Supply		For other than the above voltages, a transformer is necess		
	Power consumption				
	During processing	kW	5.8 (for reference)	9.0 (for reference)	
	During warm-up	kW	3.3 (for reference)	5.0 (for reference)	
	Max. power	kVA	19	21	
	Air pressure	MPa			
		nin(ANR)	0.5 ~ 0.8 400		
	Water pressure	- 16 4 Al 1)	41	J-0	
		MPa	0.3 ~ 0.4		
	Grinding and cleaning	MPa	0.3 ~ 0.4		
	Cooling				
	Vacuum pump	MPa	0.052 ~ 0.49		
	Water flow rate				
	Grinding and cleaning	L/min	25 or higher		
	Cooling	L/min	4 or higher		
	Vacuum pump				
	When supplied water temperature is greater than 22 °C	L/min		3	
	When supplied water temperature is less than 22 °C	L/min	1		
	Exhaust duct capacity	m³/min	<u> </u>		
	Machine dimensions(W×D×H)	mm	1,200 x 2,670 x 1,800	1.400 x 3.322 x 1.800	
	Machine weight	ka	3,100	4,000	
	wacimie weignt	ĸģ	3,100	4,000	

A vacuum unit is installed as standard.



ASIA: DISCO HI-TEC (SINGAPORE) PTE., LTD. BIk 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: 60-4-644-5502 Fax: 60-4-645-2285

DISCO HI-TEC (THAILAND) CO., LTD. Phone: 66-2-618-8441 Fax: 66-2-618-8440 Priorie: 162-2-161-3441 | Fax: 163-2-618-3440 | DISCO TECHNOLOGY (SHANGHAI) CO, LTD. Area E, 3rd Floor, Building A1 No.381 Fuliskyii Road, WalGaoQiloo Free Trade Zone, Shanghai 20131 PR. CHINA Phone: 86-21-58662516 | Fax: 86-21-58662517 | Tanjin Service & Technical Support Center Phone: 86-022-24381973 | Fax: 86-022-24381837 | Dongguan Service & Technical Support Center Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Chiff Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Chiff Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Chiff Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Chiff Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Chiff Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Chiff Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Child Phone: 86-769-86334559 | Custos Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Child Phone: 86-769-86334981 | Fax: 86-769-86334559 | Custos Child Phone: 86-769-8633459 | Custos Child Phone: 86-769-863459 | Custos Child Phone: 86-769-863459 | Custos Child Phone: 86-769-863459

Suzhou Office Phone: 86-512-67629081 Fax: 86-512-67629082

Chengdu Office Phone: 86-28-86528592 Fax: 86-28-86528591

Prione: 86-28-86028992 Fax: 86-28-86028991 **ASIA AGENT: New Tronics Co., Ltd.** Flat F, 11th Floor, Valiant Ind. Bldg. 2-12 Au Pui Wan Street, Fotan Shartin, N.T. HONG KONG Phone: 852-26871431 Fax: 852-26874283

Phone: 852-2051 (43) FBA: OUZ-ZUUT-ZUUT-Happy Pole, Ltd.
8F-1, No.41 Section 2, Roosevelt Road Taipei, Taiwan R.O.C.
Phone: 886-2-23996051 Fax: 886-2-23943943
Aurotech Corporation
2021 Buenamino Street Alabang, Munitinglupa PHILIPPINES
Phone: 63-2-809-0155 Fax: 63-2-807-7419

DHK Solution Corporation

13F, Sanhak Jaedan Building, 1337-31, Seotho-dong, Seotho-gu, Seoul, Korea
Phone: 82-2-3415-1122 Fax: 82-2-3415-1441

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: 1-602-656-9019 Fax: 1-602-656-9018 Southeastern Regional Sales & Service Office Phone: 1-919-468-6003 Fax: 1-919-468-6004 Central Regional Sales & Service Office Phone: 1-972-267-9900 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

DISCO HI-TEC EUROPE GmbH
Libigistrass 8 D-85551 Kirchheim b.Muenchen Germany
Phonie: 49-89-90903-0 Fax: 49-89-90903-199
DISCO HI-TEC FRANCE SARL Provence Head Office
Phonie: 33-4-42-91-00-20 Fax: 33-4-42-91-00-29
DISCO HI-TEC UK. LTD.
Phonie: 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