



Automatic Dicing Saw DAD3350



Flexible Design

The DAD3350 (maximum workpiece size ø8" [standard], 250 mm square [optional]) has been designed to process a wide variety of materials with either a 1.8 kW spindle (standard; supports 2" blades) or 2.2 kW high-torque spindle (optional; supports 3"-5" blades). Whether your material is ultra-thin to several millimeters thick, single wafer or multiple panel (optional), straight cut or optical angle cut (optional), the DAD3350 can be customized for your applications needs.

Process Quality

The field proven bridge-type frame structure optimizes rigidity and stability. To reduce transient vibration the DAD3350 utilizes cast iron for the bridge-type frame resulting in superior and consistent cut quality.

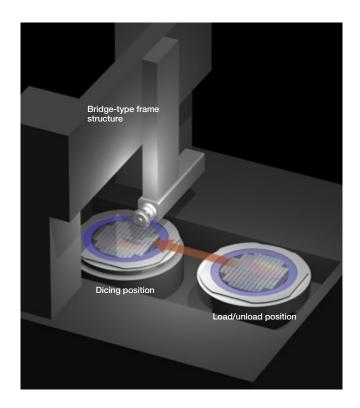
With a return speed of 600 mm/s, theta speed of 180 degree/s, and Y-axis speed of 200 mm/s the DAD3350 spends more time cutting and less time preparing to cut.

The Graphical User Interface (GUI) operates via an LCD touch screen. While improving the ease of use, the GUI also features on screen real time display illustrating process details.









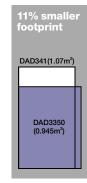
Process Controls

Auto alignment, auto focus, and auto kerf check features - all standard - directly improve productivity. In addition, the microscope includes a positive air pressure mechanism and a lens shutter to prevent contamination. The DAD3350 also includes advanced process control features such as a cutting water flow control and spindle current monitoring to support process analysis. As an option, a dual-magnification microscope is available to help reduce alignment times.

Small Footprint

The bridge-type frame structure reduces footprint while increasing performance. Suspended from the bridge is a front-mounted spindle, which provides greater space to process large area substrates.





LCD touch screen

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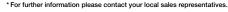


Spindle		-	1.8kW	2.2kW (option)
Workpied	ce Size	-	Max	
				nm square (*1)
X-axis	Cutting range	mm	260	
	Max. cutting speed	mm/s	600	
Y-axis	Cutting range	mm	260	
	Index step	mm	0.0001	
	Positioning accuracy	mm	0.003 or less/260 (Single error) 0.002/5	
Z-axis	Max. stroke	mm	32.2	31.4
	Moving resolution	mm	0.00005	
	Repeatability accuracy	mm	0.001	
	Max. blade size(*2)	mm	ø58	ø127
θ-axis	Max. rotating angle	deg.	380	
Spindle	Output	kW	1.8 at 60,000 min ⁻¹	2.2at 30,000 min
	Rated torque	N-m	0.29	0.7
	Revolution speed range	min ⁻¹	6,000 ~ 60,000	3,000 ~ 30,000
Applicab	le Tape Frame	-	2-8	3-1
Utilities	Power supply	-	200 \sim 240 V AC \pm 10 %, 3-phase (50/60 Hz) For other than the above voltages, a transformer is necessar	
	Power consumption	-		=
	When processing	kW	0.9 (for reference)	
	During warm-up	kW	0.8 (for reference)	
	When idling (in standby)	kW	0.3 (for reference)	
	Max. power	kVA	When 1.8 kW spindle installed: 4.9 When 2.2 kW spindle installed: 4.5	
	Air pressure	MPa	0.5 ~ 0.8	
	Air max. consumption	L/min(ANR)	200	
	Cutting water	-	=	
	Water pressure	MPa	0.2 ~ 0.4	
	Max. Consumption flow ra	te L/min	4.0	
	Cooling water	-		
	Water pressure	MPa	0.2 ~ 0.4	
	Consumption flow rate	L/min	1.5 at 0.3 MPa	
	Exhaust duct capacity	m³/min	5.0	
	Machine dimensions (WxDxH)	mm	900 x 1,050 x 1,800	
	Machine weight	kg	Approx. 1,200 (without transformer for overseas use) Approx. 1,268 (with transformer for overseas use)	

(*1) A special jig is required for this function. (*2) When selecting optional specification.

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 µm/99.5 % or more).
- Keep room temperature fluctuations within ±1 °C of the set value. (Set value should be between 20 ~ 25 °C).
- Keep cutting water 2 °C above room temperature (fluctuations within ±1 °C).
- Keep spindle cooling water the same as room temperature between 20 ~ 25 °C (fluctuations within ±1 °C).
 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.









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 Priorie: 60-67/47/37/ Fax: 60-67/45-0200 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

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: 1-602-656-9019 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
Libeligstrass B 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: 33-4-42-91-00-20 Fax: 33-4-42-91-00-29
DISCO HI-TEC UK. LID.
Frome: 44-1342-31316- 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