



DISCO

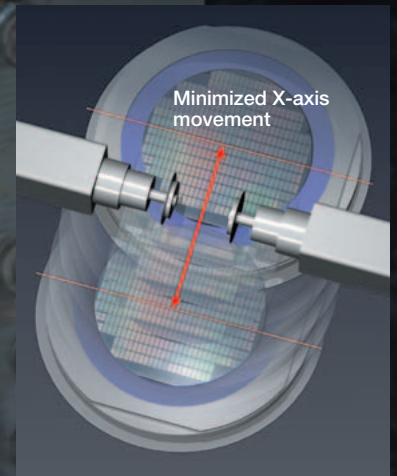
Kiru · Kezuru · Migaku Technologies



Automatic Dicing Saw **DAD3650**

Ultracompact dual-spindle automatic dicing saw

Facing dual-spindle



Small footprint

The optimal design combines both high functionality and ultracompactness for a dual-spindle automatic dicing saw having 2/3 the footprint of the widely used single-spindle DAD3350 dicer for ø8-inch wafers.

High throughput

By dicing with 2 spindles simultaneously using dual cut, realizes up to twice* as high throughput as the single-spindle dicer.

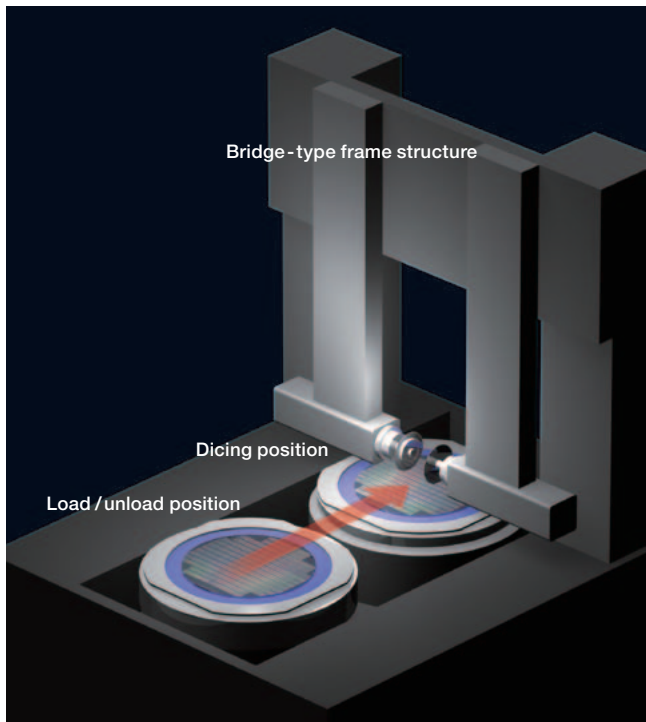
*Throughput varies depending on the workpiece size and processing parameters.

High processability

While a small footprint, the same as the DAD3350, handles maximum workpieces up to ø8 inch/250 mm sq. Also, by mounting a different blade on each spindle and using step cut to dice in 2 stages, it is possible to process workpieces requiring high quality.



Automatic Dicing Saw DAD3650



Enhanced ease of use

- Realizes intuitive operation thanks to the same GUI* as the DAD3350, the industry-standard automatic dicing saw for 8-inch wafers.
- Using a 19-inch LCD touch panel, enables operation while constantly checking the machine and blade conditions.
- Consolidates basic equipment access at the front for operation and workpiece or blade replacement.
- Reduces operator stress by installing the automatic alignment function as standard.

*GUI: Graphical User Interface

Environment-conscious design

The DAD3650 is a green procurement compliant product*, not containing the 15 hazardous chemical substances listed in "List of DISCO Restricted Substances" including the six substances specified in the EU RoHS Directive.

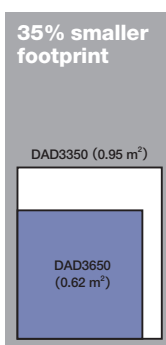
*A green procurement compliant product refers to products that satisfy DISCO's green procurement standards and conforms to EU RoHS Directives.



Top menu



Stop Correction Screen



DAD3650 Specifications

Workpiece size	mm	ø8-inch / 250 mm square
X-axis	Cutting range	mm 260
	Transfer speed input range	mm/s 0.1 - 1000
Y1-axis and Y2-axis	Cutting range	mm 260
	Index step	mm 0.0001
Z1-axis and Z2-axis	Positioning accuracy	mm 0.003/260 (Single error) 0.002 or less/5
	Max. stroke	mm 32.2 (for 2" blade)
Z1-axis and Z2-axis	Moving resolution	mm 0.00005
	Repeatability accuracy	mm 0.001
θ-axis	Max. blade size	mm ø58
	Max. rotating angle	deg 320
Spindle	Output	kW 1.8 at 60,000 min ⁻¹
	Rated torque	N·m 0.29
	Revolution speed range	min ⁻¹ 6,000 - 60,000
Applicable tape frame	-	2-8-1
Utilities	Power supply	V 200 - 240 V AC ±10 %, 3-phase <small>For other than the above voltages, a transformer is necessary.</small>
	Power consumption	-
	When processing	kW 1.3
	During warm-up	kW 1.2
	Air pressure	MPa 0.5 - 0.8
	Average air consumption during operation	L/min(ANR) 235
	Cutting water	-
	Water pressure	MPa 0.2 - 0.4
	Max. consumption flow rate	L/min 8.0
	Cooling water	-
	Water pressure	MPa 0.2 - 0.4
	Consumption flow rate	L/min 4.0 at 0.3 MPa
	Exhaust duct capacity	m ³ /min 2.5
	Machine dimensions (W×D×H)	mm 790 × 790 × 1,890
	Machine weight	kg Approx. 1,100 (without transformer for overseas use) Approx. 1,170 (with transformer for overseas use)

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.



DISCO CORPORATION

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