



Automatic Dicing Saw DAD3650

Ultra compact dual-spindle automatic dicing saw

Small footprint

The optimal design of the DAD3650 combines high functionality and ultra compactness for a dual-spindle automatic dicing saw giving it a footprint 2/3 the size of the widely used single-spindle DAD3350 dicer for ø8-inch wafers.

High throughput

By dicing with 2 spindles simultaneously in dual cut mode, high throughput of as much as twice* that of a single-spindle dicer can be achieved.

*Actual throughput varies depending on the workpiece size and processing parameters.

High processability

While possessing a small footprint, the DAD3650 can be modified to support the same maximum workpiece size (max ø8", 250 mm sq.) as the DAD3350 with a user-specified specification. 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 very high quality.



Enhanced ease of use

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

* GUI: Graphical User Interface

Environmentally-conscious design

The DAD3650 is a green procurement compliant product* which means it does not contain the 15 hazardous chemical substances listed in the "List of DISCO Restricted Substances" and 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.

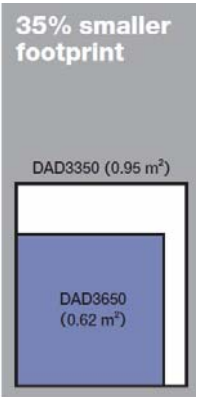
Water conservation is made possible through the adoption of a newly developed, low heat generation spindle, which reduces cooling water consumption by half compared to existing equipment.



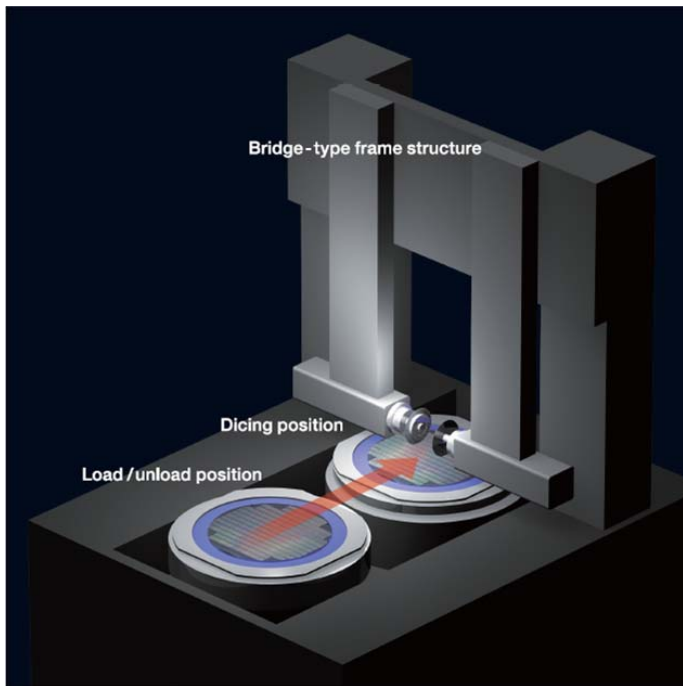
Top menu



Stop Correction Screen



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Specifications			
Specification		Unit	
Workpiece size		-	$\phi 8''$ ($\square 250, \phi 300$ mm/DPR)
X-axis	Cutting range	mm	260
	Cutting speed	mm/sec	0.1 - 1,000
Y-axis	Cutting range	mm	260
	Index step	mm	0.0001
	Index positioning accuracy	mm	0.002/260 (Single error)0.002/5
Z-axis	Max. stroke	mm	32.2
	Moving resolution	mm	0.00005
	Repeatability accuracy	mm	0.001
θ -axis	Max. rotating angle	deg	320
Spindle	Output	kW	1.8
	Rated torque	N·m	0.29
	Revolution speed range	min ⁻¹	6,000 - 60,000
Machine dimensions(W×D×H)		mm	790 × 790 × 1,890
Machine weight		kg	Approx.1,100

Environmental Conditions

- Use clean, oil-free air (dew point between -10 - -20 , residual oil: 0.1 ppm, and filtration rating: 0.01 μ m/99.5 % or more).
- Keep room temperature fluctuations within $\pm 1^{\circ}\text{C}$ of the set value. (Set value should be between 20 - 25 $^{\circ}\text{C}$).
- Keep cutting water and cleaning water 2 $^{\circ}\text{C}$ above room temperature (fluctuations within $\pm 1^{\circ}\text{C}$).
- 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 pressures specified above are gauge pressures.
- * As the above specification may change due to technical modifications.
Please confirm when placing your order.
- * For further information, please contact your local sales representative.