

# DAD323

## Automatic Dicing Saw

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## World's Smallest\* Dicing Saw which Supports Diversified Processing from Semiconductor Wafers to Electric Components

Φ150 mm Single spindle

### Diversified Processes

The DAD323 is a single-axis dicing saw with a 2.0 kW high-torque spindle, compatible with workpieces as large as 6 x 6 inches. Adopting the Y-axis scale specification (optional) allows for high-precision index control and processing of difficult-to-process materials, including glass and ceramics. In addition, DAD323 is a versatile model and can be equipped with a 1.8 kW high-rotation spindle (highest rotation speed: 60,000 min<sup>-1</sup>) as an option.

### High productivity

Software operation speed and response speed are improved through adoption of a high-performance MCU. The axis speed is accelerated and throughput is improved by adopting servo motors for all three axes.



	Current(DAD322)	DAD323
X-axis	500	800
Y-axis	150	200
Z-axis	30	80

mm/s

### World's smallest footprint\*

DAD323 is a compact dicing saw with a width of only 490 mm, and greatly contributes to improvements in productivity per unit area when multiple units are lined up.

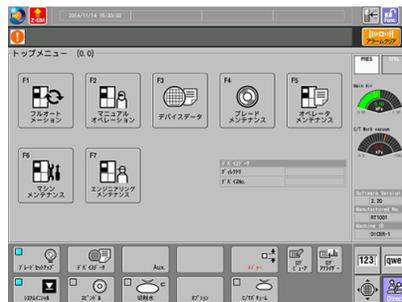
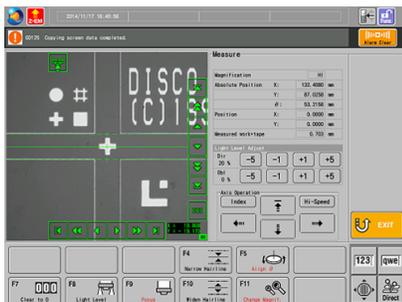
\* Investigated internally

### Ease of operation

- The auto alignment function is included as a standard feature.
- Operation via a 15-inch monitor and a GUI (Graphical User Interface)  
 Large monitor for improved legibility and an increase in the amount of displayable information.  
 Installed with the same user-friendly operating system as the 3000 series (DAD322 compatibility mode is also supported)

Current (DAD322)

DAD323



## Specifications

Specification		Unit	
Max. workpiece size		-	Φ6 inch / 150 mm × 150 mm (user-specified specification)
X-axis	Cutting range	mm	160
	Cutting speed	mm/s	0.1 - 800
Y-axis	Cutting range	mm	162
	Index step	mm	0.0001
	Index positioning accuracy	mm	0.005/160 (Single error)0.003/5
Z-axis	Max. stroke	mm	32.2 (Φ2 inch blades)
	Moving resolution	mm	0.00005
	Repeatability accuracy	mm	0.001
θ-axis	Max. rotating angle	deg	320
Spindle	Output	kW	2.0 at 40,000 min <sup>-1</sup>
	Rated torque	N · m	0.48
	Revolution speed range	min <sup>-1</sup>	3,000 - 40,000
Machine dimensions (W × D × H)		mm	490 × 870 × 1,600
Machine weight		kg	Approx.400

\*Product appearance, features, specifications, and other details may change due to technical modifications.

\*Please read the standard specification sheet thoroughly before use.