



Automatic Dicing Saw

DAD323

Automatic dicing saw with the world's smallest footprint for high space efficiency

Support for a variety of applications from semiconductor wafers to electronic parts

Support for workpieces as large as 6-inch square wafers

Incorporation of the Y-axis scale specification (option) enables high accuracy index control

Equipped with a high torque 2.0 kW spindle

The DAD323 is highly versatile with support for glass, ceramics and other difficult-to-cut materials. In addition, a high revolution speed 1.8 kW spindle (max revolutions: 60000 min⁻¹) is also selectable as an option.

High productivity

With the implementation of a high performance MCU, the speed of software operation and operation response times have been improved.

The speed of the X, Y, and Z-axes have been improved for increased throughput.

- X-axis return speed is now 800 m/s (increased by 1.6x compared to the current model)

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

(mm/s)

World's smallest footprint*

The DAD323 features an even more compact design featuring a width of only 490 mm.

The reduced profile contributes towards a large increase in terms of productivity per unit area, especially when multiple units are used together.

* Investigated internally

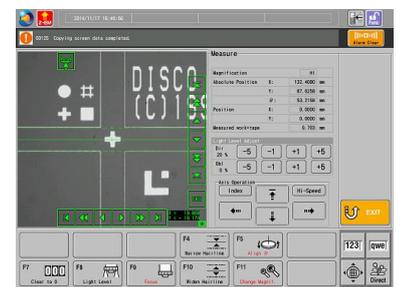


Ease of operation

- 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)



Auto alignment

◆ Comparison of operating panel

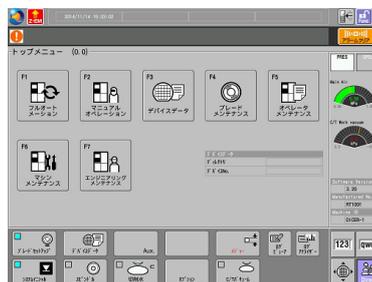


DAD322



DAD323

◆ Operation interface



3000 series



322 compatibility mode

Specification

Workpiece size		-	φ6" / □6" (DPR)
X-axis	Cutting range	mm	160
	Cutting speed	mm/sec	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" blades)
	Moving resolution	mm	0.00005
	Repeatability accuracy	mm	0.001
θ-axis	Max. rotating angle	deg	320
Spindle	Output	kW	2.0at40,000min ⁻¹
	Rated torque	N·m	0.48
	Revolution speed	min ⁻¹	3,000 - 40,000
Machine		mm	490 × 870 × 1,600
Machine weight		kg	Approx.400

Environmental Conditions

- Use clean, oil-free air (dew point between -10 - -20 , residual oil: 0.1 ppm, and filtration rating: 0.01μm/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 and cleaning water 2 °C above room temperature (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 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.