



Automatic Dicing Saw DAD322

Evolution of the default compact dicing saw model

Realizes further productivity improvement while inheriting the features of the DAD321 dicing saw, which is used worldwide.

Realizes a throughput improvement of approximately 15% (compared to the DAD321)

Features improved equipment responsiveness with the latest CPU board and improved feed speed of the spindle axis through a refined axis mechanism.

Easier operation

Equipped with an auto alignment function, which has an established reputation on more advanced models, and a GUI to make screen operation easy.

Compact design

14% smaller footprint compared to the DAD321.



Enhanced new functions

Improved maintainability

- Employs a 1.5 kW air spindle shared with the DAD3000 series, which is equipped with a shaft lock function to enable easy blade replacement.
- Lower maintenance frequency and potential equipment utilization improvement with the microscope lens shutter and scope blow functions.

Improved operability

- Using the 10.4" LCD touch panel, it is possible to clearly confirm the workpiece surface when using automatic alignment.



During manual alignment



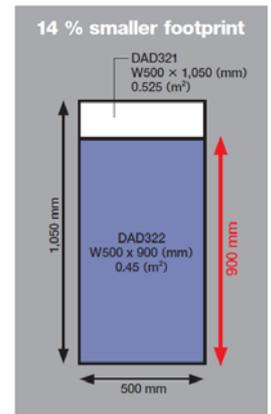
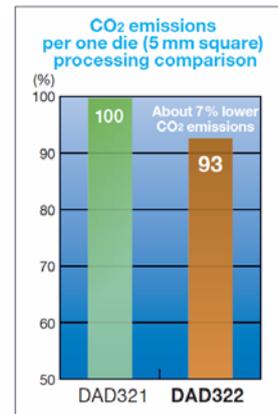
During cut preparation

Environmentally conscious design

- The DAD322 is DISCO's first green procurement compliant product*. It includes six specific materials designated EU RoHS Directives and avoids fifteen hazardous chemical substances.

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

- Compared to the DAD321, the DAD322 has 10 % lower power consumption and about 7 % lower CO₂ emissions per die (5 mm square) processed.
- Conservation of natural resources through a reduction in the amount of materials used. (16 % lower weight compared to the DAD321).



Specifications

Specification	Unit	
Workpiece size	-	φ 6" / □6" (DPR)
X-axis	Cutting range	mm 160
	Cutting speed	mm/sec 0.1 - 500
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 (φ 2" blades)
	Moving resolution	mm 0.00005
	Repeatability	mm 0.001
θ-axis	Max. rotating angle	deg 320
Spindle	Output	kW 1.5
	Rated torque	N·m 0.48
	Revolution speed range	min ⁻¹ 3,000 - 40,000
Machine dimensions(W×D×H)	mm	500 × 900 × 1,600
Machine weight	kg	Approx.420

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 ±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.