



DISCO

Kiru · Kezuru · Migaku Technologies



Automatic Dicing Saw **DAD342**

Compact automatic dicing saw with ultimate usability



Compact and easy-to-use automatic dicing saw for ø8" wafers

The DAD342 is the automatic dicing saw for ø8-inch wafers based on the DAD322, the standard model for ø6-inch wafers. Quite compact since the width is only 650 mm and footprint is two thirds of the DAD3350, the standard dicing saw for ø8-inch wafers.

Enhanced ease of use

- Has the DISCO original OS, which enjoys a good reputation for its high operability in the DAD322
- Equipped with the auto alignment function that has a proven record in higher models
- Realizes intuitive operation using 12.1-inch LCD touch panel and GUI (graphical user interface)

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Cut preparation screen



Data entry screen

High processability

Thanks to the high-output 1.8 kW spindle equal to the DAD3350, the DAD342 can handle hard-to-process materials from silicon to ceramics.

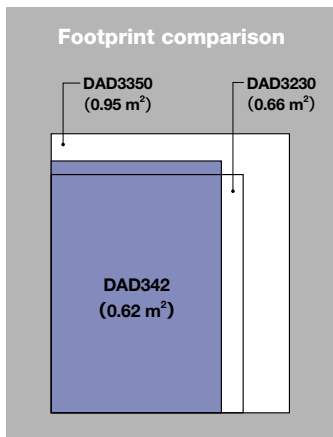
High maintainability

Built-in microscope lens shutter and scope blow function reduce maintenance frequency, which increases the operation rate.

Environment-conscious design

The DAD342 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.



DAD342 Specifications

Workpiece Size	-	ø87/8" square *1
X-axis	Cutting range	mm 210
	Transfer speed input range	mm/s 0.1 ~ 600
Y-axis	Cutting range	mm 210
	Index step	mm 0.0001
	Positioning accuracy	mm 0.003/260 (Single error) 0.002 or less/5
Z-axis	Max. stroke	mm 32.2 (for 2" blade)
	Moving resolution	mm 0.00005
	Repeatability accuracy	mm 0.001
	Max. blade size	mm ø58
θ-axis	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	kW 200 ~ 240 V AC±10 %, 3-phase For other than the above voltages, a transformer is necessary.
	Power consumption	-
	When processing	kW 0.9 (for reference)
	During warm-up	kW 0.8 (for reference)
Air pressure	MPa	0.5 ~ 0.8
Average air consumption during operation	L/min(ANR)	185
Cutting water	-	-
	Water pressure	MPa 0.2 ~ 0.4
	Max. consumption flow rate	L/min 4
Cooling water	-	-
	Water pressure	MPa 0.2 ~ 0.4
	Consumption flow rate	L/min 1.5 at 0.3 MPa
Exhaust duct capacity	m ³ /min	2.5
Machine dimensions (W×D×H)	mm	650 × 950 × 1,600
Machine weight	kg	Approx. 500 (without transformer for overseas use)
		Approx. 550 (with transformer for overseas use)

(*1) A special jig is required for this function.

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.



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