

DS830 Precision Dicing Saw



DS830 precision dicing machine uses the DS-300 software control system, imported high-resolution lens and camera to enhance graphics alignment accuracy and efficiency. DS830 is applicable to the cutting process of silicon, PCB, ceramic, glass, lithium niobate, alumina and quartz.

Features

- Graphical and simulative display of cutting process
- Water and gas curtain employed to reduce cutting powder residue
- Multi-angle water spray
- Broken Blade Detector (BBD) option

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Specifications		
- Сросинский по	Workpiece size	Ф200mm □180mm
Configuration and performance	Groove depth	≤4mm or customize
	Table flatness	±0.005mm/150mm
	Alignment system	80x straight light + ring light (40x 210x optional)
Spindle	Revolution speed range	10000~50000 rpm
	Output power	1.5kW(2.2kW optional)
X axis	Drive mode	Servo motor
	Max. stroke	380mm
	Stroke resolution	0.001mm
	Feed speed range	0.1~400mm/s
	Drive mode	Step motor + grating closed-loop control system
Y axis	Max. stroke	210mm
	Stroke resolution	0.0005mm
	Single-step positioning accuracy	≤0.003mm/5mm
	Index positioning accuracy	≤0.005mm/210mm
Z axis	Drive mode	Step motor
	Max. stroke	30mm
	Stroke resolution	0.001mm
	Repeatability accuracy	0.002mm
Θ axis	Drive mode	DD motor
	Max. rotating angle	380°
	Angle resolution	0.0002°
Basic specification	Power supply	Single phase, AC220V±10%
	Power consumption	0.9kW (processing)
		0.8kW (warming up)

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HISTORY TO SQUARESTANCES		
	Compressed air	Pressure: 0.55~0.8Mpa; average flow rate: 350L/min
	Cleaning water	Pressure: 0.2~0.4Mpa; flow rate 3.0L/min
	Cooling water	Pressure: 0.2~0.4Mpa; flow rate 1.5L/min
	Exhaust air rate	1.8m³/min (ANR)
	Overall dimensions W×D×H	775mm×960mm×1650 mm
	Weight	600kg

Environmental Conditions

- Use clean, oil-free air (dew point below -15, 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 °C 25 °C), indoor humidity no more than 80% and no condensation.
- Keep cutting water and cleaning water 2°C above room temperature (fluctuations within ±1°C). Keep temperature of cooling water the same as room temperature.
- 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.
- · Please follow the product manual of our company.

Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.



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