

DS623 Super Precision Dicing Saw



DS623 super precision dicing machine uses the imported high-power DC spindle and performance is more excellent. The spindle has self-locking function and makes it much easier to replace the blade. DS623 is applicable to the cutting process of silicon, PCB, ceramic, glass, lithium niobate, alumina, quartz and sapphire.

Features

- With dual lens and higher alignment accuracy
- Broken Blade Detector (BBD)
- Grinding machine function
- Automatic edge-searching function
- Data scanning function

Specifications		
Configuration and performance	Workpiece size	$\Phi 160\text{mm} \mid \leq 150\text{mm} \times 150\text{mm}$
	Groove depth	$\leq 4\text{mm}$ or customize
	Table flatness	$\pm 0.005\text{mm}/150\text{mm}$
	Alignment system	70x straight light + ring light (240x optional)
Spindle	Revolution speed range	10000~50000 rpm
	Output power	1.5kW (2.4kW optional)
X axis	Drive mode	Servo motor
	Max. stroke	240mm
	Stroke resolution	0.001mm
	Feed speed range	0.1~500mm/s
Y axis	Drive mode	Step motor + grating closed-loop control system
	Max. stroke	170mm
	Stroke resolution	0.0001mm
	Single-step positioning accuracy	$\leq 0.002\text{mm}/5\text{mm}$
	Index positioning accuracy	$\leq 0.004\text{mm}/170\text{mm}$
Z axis	Drive mode	Step motor
	Max. stroke	30mm
	Stroke resolution	0.001mm
	Repeatability accuracy	0.002mm
Θ axis	Drive mode	Imported DD motor
	Max. rotating angle	380°
	Angle resolution	0.0002°
Basic specification	Power supply	Single phase, AC220V $\pm 10\%$
	Power consumption	0.8kW (processing)
		0.7kW (warming up)



	Compressed air	Pressure: 0.55~0.8Mpa; average flow rate: 450L/min
	Cleaning water	Pressure: 0.2~0.4Mpa; flow rate: 3.5L/min
	Cooling water	Pressure: 0.2~0.4Mpa; flow rate: 1.5L/min
	Exhaust air rate	1.5m ³ /min (ANR)
	Overall dimensions W×D×H	580mm×850mm×1680mm
	Weight	500kg

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 $\pm 1^{\circ}\text{C}$ 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 $\pm 1^{\circ}\text{C}$). 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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