

## DS9100 Precision Dicing Saw



DS9100 precision dicing saw can be widely used for a variety of processing requirements. The 1.8KW spindle and high rigidity door structure are employed on dicing equipment, so it reduces the impact of spindle vibration on the cutting effect and improves the stability and quality of process. DS9100 is applicable to the cutting process of silicon, PCB, ceramic, glass, lithium niobate, alumina and quartz.

### Features

- Available for workpiece with the dimension of 250 x 250mm
- High rigidity door structure
- With automatic image recognition function
- With NCS (non-contact height measurement) function
- Optional BBD (Broken Blade Detector) function
- Optional tool detection function
- Optional online sharpening function

Specifications		
Configuration and performance	Workpiece size	$\phi 8 \mid \leq 250\text{mm} \times 250\text{mm}$
	Groove depth	$\leq 4\text{mm}$ or customize
	Table flatness	$\pm 0.005\text{mm}/200\text{mm}$
	Alignment system	28x straight light + ring light 280x straight light + ring light(70x 140x optional)
Spindle	Revolution speed range	6000~60000 rpm
	Output power	1.8kW
X axis	Max. stroke	260mm
	Stroke resolution	0.001mm
	Feed speed range	0.1~600mm/s
Y axis	Max. stroke	260mm
	Stroke resolution	0.0001mm
	Single-step positioning accuracy	$\leq 0.002\text{mm}/5\text{mm}$
	Index positioning accuracy	$\leq 0.005\text{mm}/260\text{mm}$
Z axis	Max. stroke	40mm
	Stroke resolution	0.001mm
	Repeatability accuracy	0.002mm
$\Theta$ axis	Drive mode	DD motor
	Max. rotating angle	380°
	Angle resolution	0.0002°
Basic specification	Power supply	Three phases, AC380V $\pm 10\%$
	Compressed air	Pressure: 0.5~0.7Mpa; average flow rate 350L/min
	Cleaning water	Pressure: 0.2~0.4Mpa; flow rate 4.0L/min
	Cooling water	Pressure: 0.2~0.4Mpa; flow rate 1.5L/min (0.3MPa/hour)
	Exhaust air rate	5 m <sup>3</sup> /min (ANR)
	Overall dimensions W×D×H	900mm×1050mm×1800 mm



	Weight	1200kg
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### Environmental Conditions

- Use clean, oil-free air (dew point below -15, residual oil: 0.1 ppm, and filtration rating: 0.01 $\mu$ m/99.5 % or more).
- Keep room temperature fluctuations within  $\pm 1^{\circ}\text{C}$  of the set value (Set value should be between  $20^{\circ}\text{C}$  -  $25^{\circ}\text{C}$ ), indoor humidity no more than 80% and no condensation.
- Keep cutting water and cleaning water  $2^{\circ}\text{C}$  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.

### Contact us

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