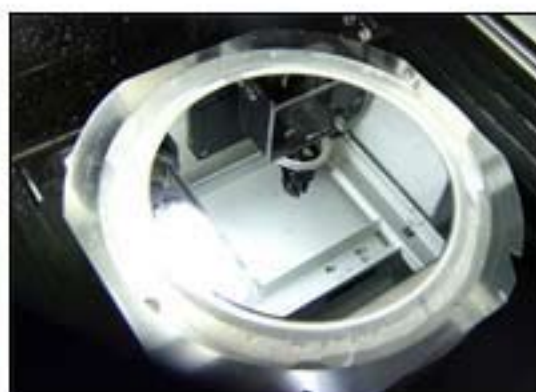


&gt;&gt;NDS&lt;&lt;

&gt;&gt;PDS &lt;&lt;

**NDS-150**

### → FEATURES

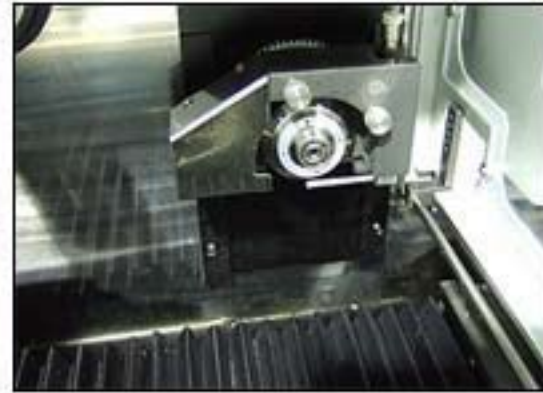
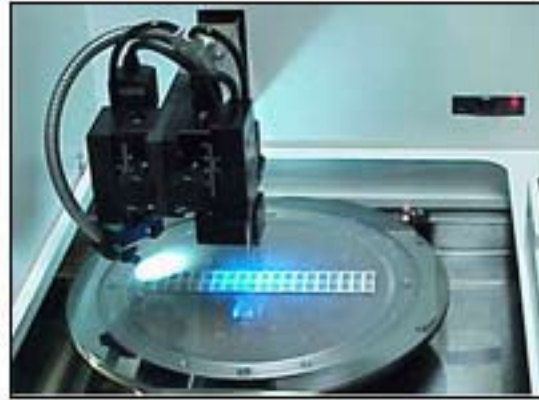
- User friendly PC based control system
- Simple to input process parameter
- Easy of operation and maintenance
- Wide range of application uses
- Contact and non-contact sensor for cutting depth control
- Blade wear-compensation and life-time counter
- Joystick axis controller for easy alignment
- Special program for irregular pitch and depth device

### → APPLICATION

Silicon Wafer, GaAs Wafer, SAW Filter, LiNbO<sub>3</sub>, LiTaO<sub>3</sub>, Sapphire, LD, LED, IC Chip, NTC Sensor, Optic parts

### → SPECIFICATION

Model	NDS-150	
Air Spindle	50,000rpm 1.5kW	
Workpiece Size	max φ 152.4 mm	
X-axis	Useable stroke	160 mm
	Cut speed	0.1-400 mm/sec
Y-axis	Useable stroke	160 mm
	Indexing step	0.0002 mm
	Accuracy (single pitch)	0.002 mm
Z-axis	Accuracy (cumulative pitch)	0.005/160 mm
	Useable stroke	50 mm (for 2" blade)
θ axis	Repeating accuracy	0.001 mm
	Rotation angle	100 deg or 380 deg
Dimension(W x D x H)	720x1,000x1,500 (mm)	
Weight	600kg	



NDS models are developed for various kinds of semiconductor wafer and substrate of electronic and optical devices such as GaAs/Gap, Silicon Wafer, Ferrite, NTC, Glass Substrate, LiNbO<sub>3</sub>, Sapphire

➔ **FEATURES**

User friendly PC based control system Simple to input process parameter Easy operation and maintenance

➔ **SPECIAL FUNCTION**

Contact and non-contact sensor for cutting depth control Blade wear-compensation and life-time counter Joystick axis controller for easy alignment Special program for irregular pitch and depth device

➔ **APPLICATION**

Silicon Wafer, GaAs Wafer, Saw Filter, LiNbO<sub>3</sub>, LiTaO<sub>3</sub>, Sapphire, LD, LED, IC Chip, NTC Sensor, Optic parts

➔ **SPECIFICATION**

Model	NDS-200	
Air Spindle	50,000rpm 1.5kW	
Workpiece Size	max φ 200 mm	
X-axis	Useable stroke	210 mm
	Cut speed	0.1-400 mm/sec
Y-axis	Useable stroke	210 mm
	Indexing step	0.0002 mm
	Accuracy (single pitch)	0.002 mm
Z-axis	Accuracy (cumulative pitch)	0.005/210 mm
	Useable stroke	50 mm (for 2" blade)
θ axis	Repeating accuracy	0.001 mm
	Rotation angle	100 deg or 380 deg
Dimension(W x D x H)	650x860x1170 (mm)	
Weight	250kg	



➔ APPLICATION

Micro-BGA, CSP

➔ SPECIFICATION

Model	PDS-250	
Air Spindle	50,000rpm 2.2kW	
Workpiece Size	max φ 250mm x 250mm	
X-axis	Useable stroke	250 mm
	Cut speed	0.1-400 mm/sec
Y-axis	Useable stroke	250 mm
	Indexing step	0.0002 mm
	Accuracy (single pitch)	0.002 mm
	Accuracy (cumulative pitch)	0.005/210 mm
Z-axis	Useable stroke	50 mm (for 2" blade)
	Repeating accuracy	0.001 mm
θ axis	Rotation angle	100 deg or 380 deg
Vision Unit	Auto Alignment System	
Dimension(W x D x H)	1,020x1,060x1,410 (mm)	
Weight	1,000kg	



➔ SPECIFICATION

Model	PDS-500	
Ball Bearing + Built in Motor	30,000 rpm	
Workpiece Size	300 x 300	
X-axis	Useable stroke	620 mm
	Feed Rate	Max 1000mm/min
Y-axis	Useable stroke	400 mm
	Feed Rate	Max 1000mm/min
Z-axis	Useable stroke	120 mm
	Feed Rate	Max 1000mm/min
θ axis	Useable stroke	360°
	Feed Rate	25 rpm
Operation System	Windows XP	
Dimension(W x D x H)	1480 x 1460 x 1620 (mm)	
Weight	3,500kg	