



7900 Uno (model 7910)

Automatic, Single-Spindle Dicing System

Configuration

- Spindle: 2"
- Size: 200mm

Features & Benefits

- Single spindle
- Low cost-of-ownership
- Small footprint and compact (short height)
- High reliability
- Easy to use, intuitive, touch screen based GUI
- Easy to maintain
- High accuracy (enhanced by advanced error mapping correction)
- Advanced vision automation
- Comprehensive, optimized dicing cycle Yield enhancement and cost saving capabilities
- Kerf inspection and quality analysis
- Blade wear monitoring and projection

- Spindle load monitoring
 Process data logging and statistical analysis
 Compatible with ADT 7900 Twin Spindle Dicing System

Optional Capabilities

- Advanced continuous magnification vision system
- Broken blade detector
- Integrated dressing station
- Variety of porous ceramic chucks (4",5", 6" and 8")
- High power spindle
- Bar code reader
- Dicing Floor Management system (DFM)

Leading Applications

- LED packages and wafers
- Discrete device wafers
- Power device wafers
- Glass wafers

The Ultimate Dicer for

- Universities and research institutes
- IC back-end plants (for 2"-8" wafer dicing production lines)
- LED beginners (for process development, pilot production, R&D)





7900 Duo (model 7900)

Automatic, Twin-Spindle Dicing System

Configurations

- Spindle: 2"
- Size: 150mm or 200mm

Features & Benefits

- Two facing spindles
- Low cost-of-ownership
- Small footprint
- · High accuracy, high throughput, high productivity
- Advanced vision automation
- Comprehensive, optimized dicing cycle
- High reliability and maintainability
- Easy to use, intuitive, touch screen based GUI
- Yield enhancement and cost saving capabilities
- Kerf inspection and quality analysis • Blade wear monitoring and projection
- Spindle load monitoring
- Process data logging and statistical analysis
- Workpiece distortions compensation
- Multi-panel handling

Optional Capabilities

- Partial wafer recognition
- Tape surface detection
- Advanced continuous magnification vision system
- Off-chuck dressing station
- Dicing floor management system (DFM)
- Special configurations
- Variety of chucks
- High power spindle

Leading Applications

- LED wafers
- LED packages
- Discrete device wafers
- Imaging sensors and lenses



7900 Duo (model 7900)

Specifications

Model	7900	7900 LA
Workpiece Size	Up to 8" X 8"	Up to 12" X 10"
Spindle	Two facing each other (blade to blade) 60,000 rpm / 1.2 KW	
Blade Size	2" - 3"	
Y1 / Y2 Axis Drive Control Resolution Cumulative Accuracy Indexing Accuracy Cutting Range	Linear 0.: 1.:	g lead screw encoder 2 µm 5 µm 0 µm 310 mm (per Spindle)
X Axis Drive Feed Rate Cutting Range	Ball bearin	slide g lead screw 30 mm/sec 310 mm
Z Axis Drive Control Resolution Repeatability Stroke	Ball bearing lead screw Rotary encoder 0.2 µm 1.0 µm 35 mm	
Ø Axis Drive Control Repeatability Stroke	Closed-loop, Direct-drive Linear encoder 4 arc-sec 350°	
Vision System	Digital camera, High bright LED illumination (vertical and oblique) Continuous digital magnification from X70 to X280 or from X35 to X140 (optional)	
Standard Features	Automatic alignment, Automatic Kerf insprction, Automatic Y offset correction	
User Interface	Flat 17" touch screen, Intuitive GUI (Graphic User Interface), Multilanguage support, Keyboard & Mouse	
Optionals	BBD (Broken Blade Detector), Barcode reader, High power spindle up to 2.4KW, Dress station, SECS-GEM host communication	
Utilities Electrical Air Water Spindle Cooling	200-240 VAC, 50/60 Hz, single phase 260 L/min @ 5.5 bar 1.1 L/min (per Spindle) Up to 4 L/min (per Spindle)	
Dimensions W x D x H Weight	875 mm x 975 mm x 1,450 mm 900 kg	
Environmental Temperature Humidity Floor	< 70% (relative	perature: 20°C - 25°C , non-condensing) ttion free

Note: Specifications are subject to change without notice.



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Specifications

Workpiece Size	Up to 8" X 8"	
Spindle	60,000 rpm / 1.2 KW	
Blade Size	2" - 3"	
Y Axis Drive Control Resolution Cumulative Accuracy Indexing Accuracy Cutting Range	Ball bearing lead screw Linear encoder 0.2 µm 1.5 µm 1.0 µm 205 mm	
X Axis Drive Feed Rate Cutting Range	Air slide Ball bearing lead screw Up to 600 mm/sec 205 mm	
Z Axis Drive Control Resolution Repeatability Stroke	Ball bearing lead screw Rotary encoder 0.2 µm 1.0 µm 35 mm	
Ø Axls Drive Control Repeatability Stroke	Closed-loop, Direct-drive Linear encoder 4 arc-sec 350°	
Vision System	Digital camera, High bright LED illumination (vertical and oblique) Continuous digital magnification from X70 to X280 or from X35 to X140 (optional)	
Standard Features	Automatic alignment, Automatic kerf insprction, Automatic Y offset correction	
User Interface	Flat 17" touch screen, Intuitive GUI (Graphic User Interface), Multilanguage support, Keyboard & Mouse (optional)	
Optionals	BBD (Broken Blade Detector), Barcode reader, High power spindle (2.4 KW) Dress station, DFM (Dicing Floor Management)	
Utilities Electrical Air Water Spindle Cooling Cutting	200-240 VAC, 50/60 Hz, single phase 260 L/min @ 5.5 bar 1.1 L/min Up to 4 L/min	
Dimensions W x D x H Weight	875 mm x 975 mm x 1,450 mm 830 Kg	
Environmental Temperature Humidity Floor	Typical room temperature: 20°C - 25°C < 70% (relative, non-condensing) vibration free	

Note: Specifications are subject to change without notice.



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