# 7900 DUO SERIES



The ADT 7900 series Dicing Saws has two facing spindles that can simultaneously dice wafers or packages at high throughput. ADT 7900 series is a high accuracy system that can dice product at high performances and low cost of operation.

### Basic machine models:

- ▶ 7900 Duo up to 8" wafer
- ▶ 7920 Duo up to 10" X 10"
- ▶ 7930 Duo up to 12" X 10" or 12" round

### Features and Benefits

- Flexibility Supports Hub and Hubless up to 3-inch OD's
- Spindles of 2.4 kW high power (for challenging applications)
- Superior vision system with continuous zoom magnification
- Intuitive operation interface using a large 17" touch screen monitor

### Other Key Features of Importance

- Highest Dicing Process Speeds Lowest Cost
- Air bearing feed axis (X)
- Fast automatic alignment and cut positioning for increased throughput
- Automatic Kerf inspection and quality analysis for maximum precision
- Process data logging and statistical analysis

- Fast & Simple Blade Change
- SECS GEM platform ready
- Full access to any area of the system for easy maintenance access
- Low cost of ownership
- Small foot print

### **Leading Applications**

- Silicon wafers / discrete devices
- Silicon carbide (SiC)
- MEMS
- SAW devices
- Glass wafer
- Packaging (QFN, LED...)

Design: STUDIO BAHIR

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### **Specifications**

Machine Model	7900 Duo	7920 Duo	7930 Duo
Workpiece Size	up to 8" X 8"	up to 10" X 10"	up to 12" X 10" and 12" round
Spindle	Two facing spindles 60,000 rpm / 1.2 KW / 0.25 Nm Rated torque		
Blade Size	2" - 3"		
V1 / Y2 Axis Drive Control Resolution Cumulative Accuracy Indexing Accuracy Cutting range	200mm	Ball bearing lead screw Linear encoder 0.1 µm 1.5 µm 1.0 µm 250 mm	300mm
X Axis Drive Feed Rate Cutting range		Air Slide Ball bearing lead screw Up to 600 mm/sec 410 mm	
Z1 / Z2 Axis Drive Resolution Repeatability Max. stroke	Ball bearing lead screw 0.2 µm 1.0 µm 40mm		
Ø Axis Drive Repeatability Stroke	Closed-loop, Direct-drive 4 arc-sec 350°		
Vision System	Digital camera, High bright LED illumination (vertical & oblique)Continuous Digital Magnification from x70 to x280 or from x35 to x140 (optional)		
Standard Features	Automatic alignment, Automatic Kerf inspection, Automatic Y offset correction		
User Interface	Flat 17" touch screen, GUI (Graphic User Interface), Multilanguage support, Keyboard & Mouse, Win 7 OS		
Options	BBD (Broken Blade Detector), High power spindle up to 2.4KW, Barcode reader, Dress station, High Definition Optics, Geometric Model Finder (GMF), Dicing Floor Management (SECS/GEM), Customization		
Utilities Electrical Air Spindel Coolant (per spindle) Cutting water (per spindle)	200-240 VAC, 50/60 Hz, single phase 260 L/min @ 5.5 bar 1.1 L/min Up to 3 L/min		
<b>Dimensions</b> WxDxH Weight	875 x 975 x 1450 mm 900 kg		
Environmental	Room Temperature: 25 C $\pm$ 1 C (77 F $\pm$ 1.8 F) Humidity: Less than 70% relative humidity (non-condensing). Cutting water / Spindle Water Temperature $\pm$ 1 C ( $\pm$ 1.8 F) Floor must be vibration free		
Note: Specifications are subject to change without notice.			

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