

ADT = Dicing

Advanced Dicing Technologies

7900 Uno (Model 7910)

Automatic, Single-Spindle Dicing System

Configuration

- Spindle: 2"
- Size: 8"

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

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
- Silicon wafers / Discrete devices
- 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)
- MEC - Micro Electronic Components

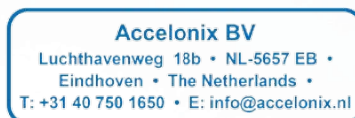


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Specifications

Workpiece Size	8"
Spindle	60,000 rpm / 1.2 KW
Blade Size	2"
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 200 mm
X Axis Drive Feed Rate Cutting Range	Air slide Ball bearing lead screw Up to 600 mm/sec 410 mm
Z Axis Drive Control Resolution Repeatability Stroke	Ball bearing lead screw Rotary encoder 0.2 µm 1.0 µm 30 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 inspection, Automatic Y offset correction
User Interface	Flat 17" touch screen, Intuitive GUI (Graphic User Interface), Multilanguage support, Keyboard & Mouse (optional)
Optional	BBD (Broken Blade Detector), Barcode reader, High power spindle (2.4 KW) Dress station, DFM (Dicing Floor Management)
Utilities Electrical Air Spindle Coolant Cutting Water	200-240 VAC, 50/60 Hz, single phase 260 L/min @ 5.5 bar 1.1 L/min Up to 3 L/min
Dimensions W x D x H Weight	875 x 975 x 1450 mm 830 Kg
Environmental Temperature Humidity Floor	Typical room temperature: 20 °C - 25 °C < 70% (relative, non-condensing) Floor must be vibration free

Note: Specifications are subject to change without notice.



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