



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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