

7152 Dicing Saw





#### **Features and Benefits**

**Advanced Process Capabilities** 

- Dice up to 30mm thick product
- Spindles of 2.5 KW high power using 5" blade OD
- Large Z clearance
- Microscope with high Depth of focus (DOF)

# **Other Key Features of Importance**

- Highest Dicing Process Speeds
- Air bearing feed axis (X)
- 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

#### **Ease of Use**

The 7152 operates with the ADT intuitive New Graphic User Interface (NGUI) and includes two touch - screens: 19" monitor for the main screen and 17" monitor maintenance screen.

### **Leading Market Segments**

- Sonar
- Medical
- Optical

## **Leading Applications**

- PZT
- Crystal
- Glass
- · Ceramic



# 7152 Dicing Saw for Heavy Duty Deep-cut Processing

# **Specifications**

| Workpiece Size      | Up to 200 mm X 200 mm, ø 200 mm  |
|---------------------|--|
| Spindle             | Air-bearing, DC-brushless<br>30,000 rpm / 2.5 KW                             |
| Blade Size          | 4.2" - 5"  |
| Y Axis:             |  |
| Drive               | Ball bearing lead screw with stepper motor                                   |
| Control             | Linear encoder   |
| Resolution          | 0.1 µm   |
| Cumulative Accuracy | ±1.5 μm  |
| Indexing Accuracy   | 1.0 µm   |
| X Axis:             | Air Slide  |
| Drive               | Ball bearing lead screw with DC-brushless motor                              |
| Feed rate           | Up to 600 mm/sec   |
| Z Axis:             |  |
| Drive               | Ball bearing lead screw with stepper motor                                   |
| Control             | Rotary encoder   |
| Resolution          | 0.2 µm   |
| Accuracy            | 2.0 µm   |
| Repeatability       | 1.0 µm   |
| Stroke              | 50 mm  |
| Z Linear Encoder    | Optional   |
| 30 mm Z Clearance   | Standard   |
| θ Axis:             |  |
| Drive               | Closed-loop, Direct-drive DC brushless                                       |
| Accuracy            | 4 arc-sec  |
| Repeatability       | 4 arc-sec  |
| Stroke              | 380°   |
| Vision System       | Digital camera, High bright LED illumination (vertical & oblique) X30 or X60 |
| Utilities:          |  |
| Electrical          | 200-240 VAC, 50/60 Hz, single phase  |
| Air                 | 260 L/min @ 5.5 bar  |
| Spindle Coolant     | 1.1 L/min tap water  |
| Cutting water       | Up to 3 L/min  |
| Dimensions:         |  |
| WxDxH               | 965 mm x 1300 mm x 1600 mm   |
| Weight              | 900 kg   |
| Environmental:      |  |
| Temperature         | Typical room temperature: 20°C - 25°C  |
| Humidity            | < 70% (relative, non-condensing)   |
| Floor               | Floor must be vibration free   |

Note: Specifications are subject to change without notice.















