

Fully Automatic Twin Dicing Saw for Wettable Flank Process

Tapeless fully automatic twin spindles saw, designed for precise step-cut wettable QFN. The 80WT performs perfect grooving operation with constant depth of cut, on an uneven surface of the substrate.

Configuration

- Blade O.D.: 2", ,Optional 3" capabilities
- Up to 12" X 12" Square
- Customize chucks for dual panels

Features and Benefits

- Optical Measuring System (OMS) for product mapping
- Automatic cut depth inspection
- Designed for precise Shallow cut
- The 80WT performs perfect grooving operation with constant depth of cut, on an uneven surface of the substrate
- Loading up to 4 QFN magazines Tapeless process
- Automatic loading 2 QFN panels
- Brush deburring

Ease of Use

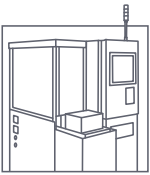
The 80WT operates with the ADT intuitive New Graphic User Interface (NGUI) and includes two touch screens: 19" monitor for the main screen and 17" monitor maintenance screen.

Other Key Features of Importance

- Ionizer Bar – ESD discharge
- Broken blade detection (BBD)
- BARCODE
- Atomizing Jet
- Optional:
 - Brush + high pressure jet
 - Pressure jet
- SECS GEM ready

Leading Applications

- QFN
- WQFN
- DFN



80WT Fully Automatic Twin Dicing Saw

Specifications

Workpiece Size	up to 12" X 12" Square
Spindle	Two facing 1.8 kW, 60,000 rpm
Blade Size	2"
Y1 / Y2 Axis: Drive Control Resolution Cumulative Accuracy Indexing Accuracy Cutting range	Ball bearing lead screw Linear encoder for each Y axis 0.1 µm 1.5 µm 1.0 µm 350 mm
X Axis: Drive Feed rate Cutting range	Air Slide Ball bearing lead screw Up to 600 mm/sec 350 mm
Z1 / Z2 Axis: Drive Resolution Repeatability Max. stroke	Ball bearing lead screw 0.2 µm 1.0 µm 50 mm (for 2.188" blade OD)
θ Axis: Drive Repeatability Stroke	Closed-loop, Direct-drive 4 arc-sec 380°
Vision System	USB3 camera, High bright LED illumination (vertical & oblique)
Cleaning Station: Spinning speed Cleaning Method	Full rinse and dry cycle 100-3,000 rpm Atomized cleaning capabilities
Wafer Handling system	Slot to slot integrity Automatic alignment
Standard Features	Automatic Cut verify Automatic Kerf inspection Automatic Y offset correction
User Interface	2 touch screens: 19" monitor as main screen and 17" monitor for maintenance NGUI (New Graphic User Interface) Multilanguage support Win 10 OS
Options	BBD (Broken Blade Detector) High power spindle up to 2.2KW at 60 KRPM Barcode reader USB3 camera with Continuous Digital Magnification from x70 to x290 Dress station ESD Kit Geometric Model Finder (GMF) Dicing Floor Management Customization
Utilities: Electrical Air Spindle Coolant (per spindle) Cutting water (per spindle)	200-240 VAC, 50/60 Hz, single phase 500 L/min @ 5.5 bar 1.1 L/min Up to 3 L/min
Dimensions: WxDxH	1145 mm × 1687 mm × 1830 mm
Weight	1500 kg
Environmental	Room Temperature: 20°C to 25°C ± 1°C (77°F ± 1.8°F) Humidity: Less than 70% relative humidity (non-condensing) Cutting water / Spindle Water, Temperature ± 1°C (± 1.8°F) Floor must be vibration free

Note: Specifications are subject to change without notice.

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