8020 SERIES

Fully Automatic Twin Dicing System



ADT 8020 Dicing Saw has two facing spindles that can simultaneously dice wafers at high throughput. ADT 8020 is a high accuracy system that can dice product up to 8" in diameter, at high performances and low cost of operation.

Configuration

- Spindle: 2"-3"
- Size: 8"

Features and Benefits

- Flexibility Supports Hub and Hubless blades up to 3".O.D.
- Spindles of 1.8 kW or 2.4 kW high power (for challenging applications)
- Superior vision system with continuous zoom magnification

vanced Dicing Technologies

 Intuitive operation interface using a large 19" touch screen monitor

Ease of Use

The 8020 operates with the ADT intuitive New graphic User Interface (NUI), and includes two touch-screens: a 19" monitor for the main screen and a 17" monitor maintenance screen. The maintenance screen assist with performing system setup procedures, blade change and some basic maintenance operations.

Other Key Features of Importance

Highest Dicing Process Speeds – Lowest Cost

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8020

- 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 with a locking spindle shaft
- SECS / GEM platform ready
- Full access to any area of the system for easy maintenance access

Leading Applications

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

Design: STUDIO BAHIR

8020 Fully Automatic Twin Dicing System

Specifications

Ø 8"
Two facing spindles Max. 60,000 rpm / 1.2 KW
2" - 3"
Ball bearing lead screw
Linear encoder for each Y axis
0.1 μm 1.5 μm
1.0 µm
210 mm
Air Slide Air Slide
Ball bearing lead screw
Up to 600 mm/sec 210 mm
21011111
Ball bearing lead screw
0.2 µm
1.0 µm
30 mm (for 2.188" blade OD)
Classification District the
Closed-loop, Direct-drive 4 arc-sec
350
USB3 camera, High bright LED illumination (vertical & oblique)
Full rinse and dry cycle
100-2,000 rpm
Atomized cleaning capabilities
Slot to slot integrity
Inspection drawer
Automatic alignment
Automatic Cut verify
Automatic Kerf insprction Automatic Y offset correction
2 touch screens: 19" monitor as main screen and 17" monitor for maintenance
NUI (New Graphic User Interface)
Multilanguage support
Win7 OS
BBD (Broken Blade Detector)
High power spindle up to 2.4KW or 1.8KW at 60 KRPM
Barcode reader UV station
USB3 camera with Continuous Digital Magnification from x70 to x290
Dress station
Dress cassette
ESD Kit
High Definition Optics Geometric Model Finder (GMF)
Dicing Floor Management (SECS/GEM)
Customization
200-240 VAC, 50/60 Hz, single phase
500 L/min @ 5.5 bar
1.1 L/min Up to 3 L/min
1,015 mm X 1,460 mm X 1,820 mm
1300 kg
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



www.adt-co.com



Factories and R&D Center – Israel

Advanced Dicing
Technologies Ltd.
Hi-Tech Park (south), PO Box 87,
Yokneam 2069202
Tel: 972-4-8545222
Fax: 972-4-8550007

China

Advanced Dicing
Technologies Ltd.
PuDong, Shanghai
China
Tel: 86-21-5093-9293
Fax: 86-21-5093-9890
Email: china_support@adt-co.com

Taiwan

Advanced Dicing Technologies Ltd. New Taipei City, Taiwan Tel: 886-2-2608-2027 Fax: 886-2-2608-3710 Email: adt-tw@adt-co.com

North America

Advanced Dicing
Technologies Inc.
East Coast Office - Horsham, PA
Tel: 215-773-9155
West Coast Office - Tempe, AZ
Tel: 480-666-9620
Email: ADT-USA-Sales@adt-co.com