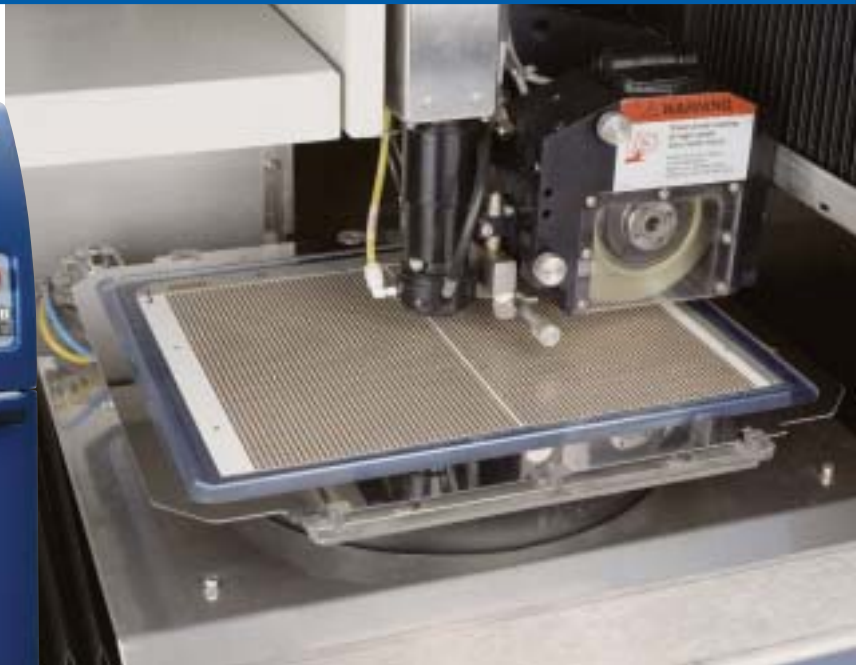


Large Area Capability for 7100 Series *pro*- Model Dicing Systems



Available for both *proVectus* (2" spindle) and *proFortis* (4" spindle) systems, Large Area capability allows not only semi-automatic processing of 12" wafers, but also singulation of large PCBs or hard and brittle glass and ceramic substrates in the 7100 Series' compact footprint.

- Allows Dicing of 12" x 12" Substrates (without frame) or 12" Diameter Wafers (with frames)
- Available on the 2" spindle *proVectus* or 4" spindle *proFortis*
- Does not increase footprint of 7100 Series base architecture
- Increased theta precision for high accuracy over long cut lengths
- Spacious load and unload area for large substrates and 12" wafers
- Excellent for singulating large PCBs or ceramic substrates
- Stationary, non-contact height compensation for 2" or 4" systems
- Customized chuck configurations

Filling Big Shoes With a Small Footprint

Large Area capability, for the *proVectus* and *proFortis* Models of the 7100 Series Dicing Systems, was developed primarily for those customers interested in semi-automatic processing of 12" wafers or singulation of large PBGA and CBGA substrates. Increased X, Y and theta axis travel are combined with closed-loop Y and theta axis control to allow the highest level of precision needed for long cuts over large distances. What's more, the *proFortis* system with Large Area capability and a 4" spindle is the industry's only solution for large hard and brittle ceramic and glass panels.



7100 Series Large Area Capability

Specifications

*pro***V***ectus*

4"
*pro***F***ORTIS*

Work Piece Size	305 mm (12") diameter - with frames 305 mm x 305 mm (12" x 12") rectangular - without frames	
Blade Size	2" - 3"	4" - 5"
Spindle	Air bearing, DC-brushless 60,000 RPM / 1.2 KW	Air bearing, DC-brushless 30,000 RPM / 2.5 KW
Indexing Axis (Y)	Ball bearing lead screw with stepper motor	
Drive	Linear encoder	
Control	345 mm	
Stroke	0.2 µm	
Resolution	1.5 µm	
Cumulative accuracy	1.0 µm	
Indexing accuracy		
Feed Axis (X)	Ball bearing lead screw with DC-brushless motor	
Drive	Up to 350 mm/sec	
Feed rate		
Cut Depth Axis (Z)	Ball bearing lead screw with stepper motor	
Drive	0.2 µm	
Resolution	2.0 µm	
Accuracy	1.0 µm	
Repeatability	50 mm	
Stroke		
Rotary Axis (θ)	Closed-loop, direct-drive, DC-brushless	
Drive	4 arc-sec	
Accuracy	4 arc-sec	
Repeatability	350°	
Stroke		
Vision System	Digital camera, Fire-Wire technology, bright LED illumination (vertical & oblique) Magnification from x60 to x240	
Utilities	200-240 VAC, 50/60 Hz, Single phase	
Electrical	350 L/min @ 5.5 bar	
Air	1.1 L/min tap water	
Spindle coolant	Up to 7 L/min	
Cutting water (DI/ tap)		
Dimensions (HxWxD)	1600 x 1000 x 1300 mm	
Weight	900 Kg	

For sales, service and manufacturing locations, visit:

www.adt-co.com

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