



FULLY AUTOMATIC DICING MACHINE

AD2000T/S

Fast, refined and innovative



TWIN Dicing concept with two opposing Spindles

World's smallest Dicing Machine

Achieved smallest footprint possible utilizing our own core technology.

World's most efficient Dicing Machine

Delivering fast X-axis (Up to 1,000mm/sec) and Y-axis (Up to 300mm/sec) processing speed.
Low Cost of ownership.

Introducing refined Graphic User Interface

Tokyo Seimitsu was the first to Introduce TWIN Dicing Machine equipped with GUI and now refined GUI is available with HELP function as a standard feature for ease of operation.

Ease of maintenance

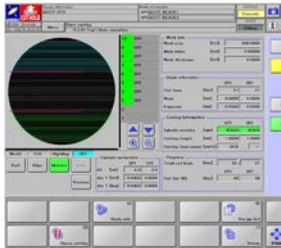
Widen front access door help improve routine maintenance with ease-of-maintenance in mind.



Tokyo Seimitsu has introduced Japan's first Wafer Dicing Machine, Model A-WA-75A in 1970 and tremendous contribution was made to success of Semiconductor industry with die separation process technology and its long term evolution with precision processing. Vast resource accumulated on Dicing Technology over four decades has enabled us to introduce next generation of Dicing machine, Model AD2000T with latest technology in FLUIDIC ENGINEERING, MECHATRONICS ENGINEERING and ENERGY CONSERVATION to lead the world with Dicing technology.

TOKYO SEIMITSU

Main Features

- 1 Optimized spacing by utilizing all components and optional unit well within the compartment
- 2 Standard Spindles up to 60,000rpm
- 3 Enhanced throughput
 - ① X axis 1,000mm/sec, Y axis 300mm/sec, and Z axis 80mm/sec
 - ② Two Optical Cutter-Set units
 - ③ The Worlds' smallest blade-to-blade distance
- 4 17" LCD touch panel and new GUI
 GUI (Graphical User Interface) with simple layout and large touch-buttons allow users' interactive operation
 

New GUI ▶
- 5 Easy and simple Kerf check function
 (AI kerf check function)
- 6 Over 10,000 recipes storable
- 7 USB port as standard
 (USB memory device can be used as external memory)
- 8 Ease-of-maintenance
 Wide maintenance door and front-side accessibility allows easy of routine maintenance
- 9 Optimized vacuum controller
 Reduces 50% of air consumption compared with existing model

Specifications

Max. work size		φ 200mm
Max. number of frames		8inch
Spindle	Rotation	60,000 min-1
	Max. blade diameter	Φ58mm (2-Inch)
	Rated Output	1.8KW
X axis	Available cutting range	260mm
	Max. Speed	1000mm/sec
Y1/Y2 axes	Available cutting range	260mm
	Max. Speed	300mm/sec
	Resolution	0.078μm
	Accuracy	0.002mm/210mm
Z1/Z2 axes	Stroke	34mm
	Resolution	0.002μm
	Max. Speed	80mm/sec
	Repeatability	0.001 mm
θ axis	Range of rotation	380°
Misc	Voltage	3 Phase AC200~220V ±10% (Transformer adoptable)
	Power consumption	6.0kVA (MAX)
	Air pressure	0.55~0.7MPa
	Avg. Air consumption	210L/min (0.55MPa)
	Cutting Water, and others (pressure)	0.3~0.5MPa
	Cutting Water, and others (Max Flow)	Cutting Water:10.0L/min Others:3.6L/min
	Cooling Water (pressure)	0.3~0.5MPa
	Cooling Water (Max Flow)	3.4L/min (0.3MPa)
	Exhaust	5.0m ³ / min more
Size (W*D*H)		1080mmX1190mmX1900mm
Weight		1100kg

Notes) ·Specifications of the Consumption, Cutting water and Cooling water are for AD2000T.
 ·All specifications above may be changed without notice.



Maintenance



The large door and processing space increased the maintainability.