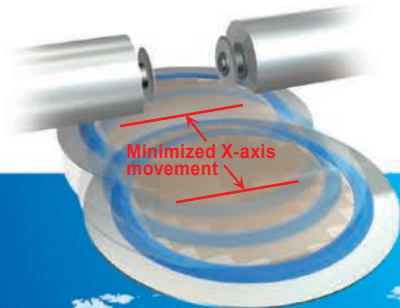




FULLY AUTOMATIC DICING MACHINE

# AD3000T

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.  
Size reduced down to 68% by comparison.

## **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**

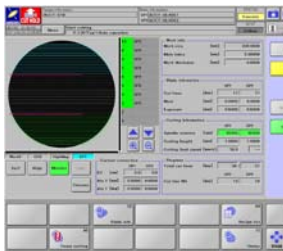
Widen front access door help improve routine maintenance with ease-of-maintenance in mind.



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 precession processing. Vast resource accumulated on Dicing Technology over four decades has enabled us to introduce next generation of Dicing machine, Model AD3000T 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 (80,000rpm as optional)
- 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
 
- 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

New GUI ▶

**Specifications**

Max. work size		Φ305mm
Max. number of frames		12inch (430Φ)
Spindle	Rotation	60,000 min-1 OP:80,000 min-1
	Max. blade diameter	Φ60mm (2-Inch)
	Rated Output	1.8KW
X axis	Available cutting range	310mm
	Max. Speed	1000mm/s
Y1/Y2 axes	Available cutting range	310mm
	Max. Speed	300mm/s
	Resolution	0.078μm
	Accuracy	0.002mm/310mm
Z1/Z2 axes	Stroke	34mm
	Resolution	0.002μm
	Max. Speed	80mm/sec
	Repeatability	0.001mm
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 Water curtain:3.0L/min Others:0.6L/min
	Cooling Water (pressure)	0.3~0.5MPa
	Cooling Water (Max Flow)	3.4L/min (0.3MPa)
	Exhaust	5.0m <sup>3</sup> / min more
Size (W*D*H)		1290mmX1530mmX1900mm
Weight		1300kg

**Maintenance**



**Set up space**

Tokyo Seimitsu has succeeded with footprint reduction by comparison with existing model

