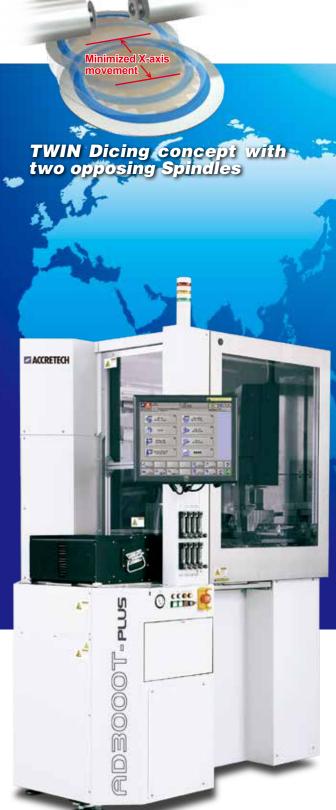


FULLY AUTOMATIC DICING MACHINE

AD3000T-PLUS

Fast, refined and innovative



Fully automatic dicing machines for Φ 300 mm wafers

Opposing 2-axis spindles are arranged diagonally, ensuring high maintainability while achieving space savings Available for a broad range of dicing applications from semiconductors to electronic devices

Space-saving design

Unique diagonal layout design

Accessible from the front for all the work from normal operation to maintenance

High-performance, high-power spindle as standard

Rating: 1.8 kW, Max. rotation speed: 60,000 rpm
Available for dicing a broad range of materials from silicon to difficult-to-cut materials

Enhanced productivity (throughput)

Gate-shaped structure + X-, Y-, and Z-axis servo motors Achieves both a small footprint and high throughput High rigidity and low vibration for improved cutting quality

Operability

17-inch touch panel + GUI (Graphical User Interface)
The machine can be operated with ease and comfort just by touching icon buttons

The operation method is the same as the familiar AD/SS series

Tokyo Seimitsu developed Japan's first wafer dicing machine, Model A-WD-75A, in 1970, making a tremendous contribution to the success of the semiconductor industry in its early days by providing more precise and more efficient die separation process technology. A wealth of technological resources we have accumulated over five decades enables us to lead the world in dicing technology with our next-generation dicing machine, Model AD3000T-PLUS, which combines the latest fluidics, mechatronics, and energy conservation techniques.

TOKYO SEIMITSU CO., LTD.

AD3000T-PLUS

Features

1 Enhanced productivity (throughput)

2-axis spindle design with two opposing spindles enables waste-free dicing with minimized X-axis movement.

X axis 1,000 mm/sec, Y axis 300 mm/sec, and Z axis 80 mm/sec The X, Y, and Z axes are all equipped with servo motors for higher axis speeds.

Optimized control software and 3-axis synchronous control reduces dicing time. 2 optical cutter (OPC) setting units are provided as standard components. Setting up the cutters simultaneously leads to a shorter standby time.

High-performance, high-power spindle as standard

Rating: 1.8 kW, Max. rotation speed: 60,000 rpm.

High-torque spindle with a rating of 2.2 kW also available as an option. Available for dicing a broad range of materials from silicon to difficult-to-cut materials.

Operability

17-inch touch panel + GUI (Graphical User Interface)

The machine can be operated with ease and comfort just by touching icon buttons.



▲ GUI operation screen

4 A variety of option settings

Intermediate dressing function, built-in UV irradiation system, barcode reader, automatic recipe switchover function, ionizer, etc. Smaller optional unit sizes and optimized interior design allow the major optional units to fit into the compartment.

5 More than 10,000 recipes can be stored in HDD

USB port as standard

USB memory devices can be used as external memory.

Specifications

Max. workpiece size		Ф 305 mm
Max. number of frames		12 inch (SEMI G74-0699)
Spindle	Rotation	60,000 min-1
		80,000 min-1 (Option)
	Max. blade diameter	Φ 60 mm (2-Inch)
		Φ 80 mm (3-Inch) (Option)
	Rating	1.8 KW
X axis	Available cutting range	310 mm
	Max. Speed	1,000 mm/s
Y1/Y2 axes	Available cutting range	310 mm
	Max. Speed	300 mm/s
	Resolution	0.078 μm
	Accuracy	0.002 mm / 310 mm
Z1/Z2 axes	Stroke	35 mm
	Resolution	0.002 μm
	Max. Speed	80 mm/sec
	Repeatability	0.001 mm
θ axis	Range of rotation	380°
Misc	Voltage	3 Phase AC200 to 220 V ±10 % (Transformer adoptable)
	Power consumption	6.0 kVA (MAX)
	Air pressure	0.55 ∼ 0.7 MPa
	Avg. Air consumption	210 L/min (0.55 MPa)
	Avg. Clean air consumption	140 L/min
	Cutting water and others (pressure)	0.3 ∼ 0.5 MPa
	Supply water Max flow	Cutting water: 10.0 L/min Water curtain: 3.0 L/min Others: 0.6 L/min
	Cooling water (pressure)	0.3 ∼ 0.5 MPa
	Cooling water (max. flow)	3.4 L/min (0.3 MPa)
	Exhaust	5.0 m ³ / min more
Dimensions (W x D x H)		1,290 mm x 1,530 mm x 1,900 mm
Weight		1,360 kg

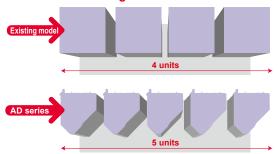
Space-saving design

Unique diagonal layout design.

Accessible from the front for all the work from normal operation to maintenance.

If multiple units are installed side by side, there is no need for side service clearance. Up to 5 AD2000T/S units can be installed in a space that can accommodate no more than 4 existing models.







The large door and spacious working chamber offer improved maintainability

The machine is accessible from the front for operating all routine work such as blade replacement and maintenance.



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