

AUTOMATIC SLICING / DICING MACHINE

DAS110

Accuracy thick material with high capable of cutting 30 mmt to achieve higher throughput than before.



High
power
spindle

Multi-
gang
blades

Auto θ axis
Auto
alignment
system

Applications Example

Suitable materials

Neodymium Magnets, Ceramics, Raw Ceramics, Metals, Glass
Suitable for highly precise cutting of thick materials (30 mmt max)

Suitable products

- Lamination ceramics layer with printed pattern
- Ceramics package
- PZT substrates
- Optical glass

The last fort in cutting

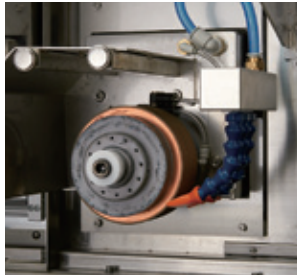


YAC DAS110, Inc.



DAS110

Structure advantages



Multi-gang blades

- Easy to change to single blade
- The number of one cutting largely increases
- Capable for grooving



Auto alignment system

- Cut precision improvement
- Productivity improvement
- Laborsaving

DAS110 Specification

Chuck table		(mm)	200x200
X Axis	Cut stroke	(mm)	200
	Cutting speed range	(mm/sec)	0.1-150
	Max moving speed	(mm/sec)	150
	Drive source		AC Servo motor
Y Axis	Effective stroke	(mm)	200
	Index setting range	(mm)	0.001-200
	Index speed	(mm/sec)	MAX 50
	Linear scale		0.5μm feedback
	Drive source		AC Servo motor
Z Axis	Effective stroke	(mm)	75
	Z height setting	(mm)	0.001-75 (in accordance with chuck table height)
	Min index setting	(mm)	0.001
	Max speed	(mm/sec)	MAX 20
	Drive source		AC Servo motor
W Axis	Chuck table size	(mm)	200x200
	Rotation range	(°)	90 (Right rotation)
	Min resolution	(°)	360/1,966,080
	Drive source		DD Motor (15Nm)
Spindle	Style		Belt drive, ball bearing spindle
	Speed range	(rpm)	1,000-8,000
	Speed control		Spindle inverter
	Motor	(kW)	3.7, Magnet motor
	Blade size		ODφ100-φ152xIDφ40
	Safety interlock		1. Splash cover is locked during spindle rotation 2. Spindle is not rotated while the cover is open
Operation panel	Touch panel		Showing the operation switch, cutting data, parameter setting, error messages, etc.
Accuracy	Table top accuracy	(mm)	0.02/200x200
	X axis straightness	(mm)	Yawing 0.01/200 Pitching 0.01/200
	Y axis index accuracy	(mm)	Accumulative error ±0.01/200 Repeatability ±0.005
	Z axis index accuracy	(mm)	Accumulative error ±0.01/75 Repeatability ±0.005
	Spindle run out	(mm)	Radial direction 0.003 5°/90°
	θAxis index accuracy	(°)	Accumulative error 1.3° Repeatability
		(°)	
Utility	Power		3 phase 200V 50/60Hz
	Power consumption	(kVA)	8kVA
	Air pressure (Option)	(MPa)	0.55
	Air consumption (Option)	(NI/min)	200 (For driving source)
Water Supply Unit	Coolant water pressure	(MPa)	0.3
	Coolant consumption	(l/min)	20
	Power consumption (Option)	(kVA)	2.0kVA (Coolant unit)
Machine size		(mm)	1,120 (W) x1,450 (D) x 1,530 (H)
Machine weight		(kg)	1,000

The specification of this machine have a case to change for improvement.
Please contact our sales for inquiry as to cutting applications.

Our motto is "FAST"

Flexible
Automatic
Slicing
Technology



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