

AUTOMATIC CORING MACHINE

DAR810

Various highly precise round shape processing by 1 process was archived !
Able to core it in high efficiency more speedily due to fully automatic.



Able to
core it from
flat plate

The concentric
processing like
a doughnut cut
is also possible

Highly
suitable
for various
encoders

Applications Example

Suitable materials

Various glass, ceramics, quarts, Si, PCB

Suitable products

- Sarvo motor encoder
- Si high power rectifier
- Optical filter
- PZT substrates

The last fort in cutting

DASTech
YAC DASTech, Inc.



DAR810 Structure advantages



Core drill

- Turn high-speed a cylindrical diamond blade
- Less chipping and quick process is achieved



Glass processed samples

- Concentric processing is realized by double blade use
- Applicable to ceramics, Si and various type of materials

DAR810 Specification

Chuck table		(mm)	200×200 (Movable range:200×180)		
X Axis	Feed speed range	(mm/sec)	0.1 ~ 200		
	Index setting range	(mm)	0.001 ~ 200		
	Drive source		AC Servo motor (Linear scale)		
Y Axis	Index setting range	(mm/sec)	0.001 ~ 180		
	Index speed	(mm)	MAX 40		
	Drive source		AC Servo motor (Linear scale)		
Z Axis	Effective stroke	(mm)	75		
	Z height setting	(mm)	0.001 ~ 75		
	Min index setting	(mm)	0.001		
	Max speed	(mm/sec)	MAX 20		
	Processing speed	(mm/sec)	0.06 ~ 20		
	Drive source		AC Servo motor		
θ Axis	Rotation range	(°)	110		
	Min resolution	(°)	360/2,621,440		
	Drive source		DD Motor (15Nm)		
Spindle	Style		Direct drive, ball bearing spindle		
	Speed range	(rpm)	2,000 ~ 12,000		
	Speed control		Spindle inverter		
	Motor	(kW)	2.2 2P		
	Core (Blade) size x Shank	(mm)	ODφ3.1 ~ φ80 x φ20 (Shank Diameter)		
	Safety interlock		1. Spindle stops at the waterproof cover open. 2. Spindle will not rotate with cover unclosed		
Operation panel	Touch panel		Switch function	Cutting data, error message	
Auto handling system			Cassette to cassette, 2 cassettes loading		
Accuracy	Table top accuracy	(mm)	0.02 / 200×200		
	X axis index accuracy	(mm)	Accumulative error	±0.01 / 200	Repeatability ±0.005
	Y axis index accuracy	(mm)	Accumulative error	±0.01 / 180	Repeatability ±0.005
	Z axis index accuracy	(mm)	Accumulative error	±0.01 / 75	Repeatability ±0.005
	Spindle run out	(mm)	Radial direction	0.003	
	θAxis index accuracy	(")	Accumulative error	25" /360°	Repeatability 1.3"
Utility	Power		3 phase 200V 50/60Hz		
	Power consumption	(kVA)	8		
	Air pressure	(MPa)	0.55		
	Air consumption	(l/min)	Driving source : 200 (A.N.R)	Air shower : 1,440 (A.N.R)	
Water Supply Unit	Coolant water pressure	(MPa)	0.3		
	Coolant consumption	(l/min)	30		
	Power consumption	(kVA)	2 (Coolant unit only)		
Spindle cooling	Power consumption	(kVA)	0.8		
Machine body size/weight		(mm) /(kg)	1,975(W) x 1,500(D) x 1,890(H) / 1,000		
Coolant unit/ weight (option)		(mm) /(kg)	1,140(W) x 960(D) x 1,310(H) / 120(empty)		

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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