



AC SERIES

CNC TAPPING CENTER

(Travelling Column)

Nothing But The Best

1000 AC₃

750 AC₃

700 AC₃S

鑫天九精機

GRAND SEIKI

700 AC₃ S



GRAND SEIKI MACHINERY CO., LTD.



AC SERIES

750 AC_B 1000 AC_B 700 AC_B S

CNC TAPPING CENTER (Travelling Column)



750 AC_B

- Table size: 900 x 400 mm
- Column-moving
- X/Y/Z-axis travel: 750 x 400 x 300 mm
- BT30 direct-drive spindle



1000 AC_B

- Table size: 1100 x 400 mm
- Column-moving
- X/Y/Z-axis travel: 1000 x 400 x 300 mm
- BT30 direct-drive spindle



Reinforced structure for excellent stability

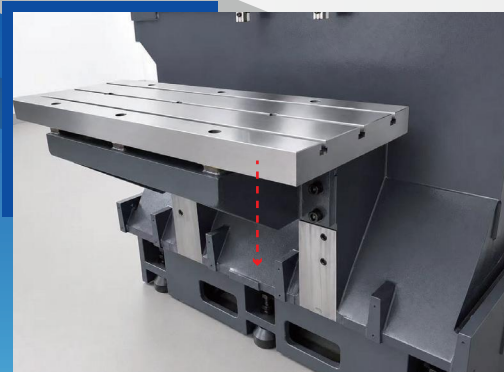
The machining area is completely isolated from the three-axis drive area, effectively preventing chips and coolant generated during machining from affecting accuracy and service life, while enhancing overall machine quality and performance.



The X-axis linear guideways feature a stepped height design with a wide-span balanced support structure, enhancing structural rigidity and overall stability.

Features

- The three-axis drive area is completely separated from the machining area for easy maintenance and cleaning
- Dual worktable height options available
- Optional wall-mounted 4th axis helps improving chip evacuation without affecting travel
- Built-in coolant tank with front chip collection tray
- Lightweight servo tool magazine for fast tool changes
- Direct chip drop design prevents chip accumulation
- P-grade linear guideways and C3-grade ball screws for all three axes
- Z-axis equipped with roller linear guideways
- High-rigidity cast iron



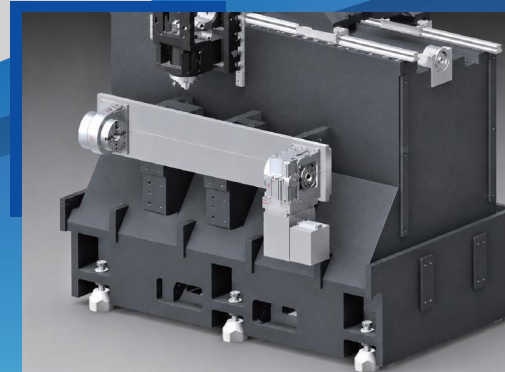
Adjustable Table Height

Adjustable table height to meet various workpiece and fixture requirements



Space-Saving Design and Easy Maintenance

The transformer and oil cooler are integrated within the machine footprint for easy maintenance, space saving, and reduced factory costs.



Side-Mounted 4th Axis

- Effectively eliminates the impact on machining travel after installing the 4th axis.
- Less chip accumulation, making workpiece replacement easier.
- Reduces clamping time and improves machining efficiency.



Direct Chip Drop Design

- The chips are flushed by coolant and fall directly into the chip collection tray, forming a direct chip drop evacuation system.
- This design prevents chip accumulation during machining, improves the working environment, and extends machine service life.

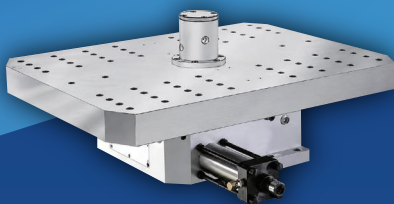


Features

- Dual-station Rotary Table for high machining efficiency and reduced labor cost
- Three-axes drive area completely separated from the machining area for easy maintenance, servicing and cleaning
- Lightweight servo tool magazine for fast tool change
- Direct chip drop design prevents chip accumulation
- P-grade linear guideways and C3-grade ball screws on all three axes
- Z-axis roller linear Guideway
- High-rigidity cast iron

700 AC S

- Rotary Table
- Dual-Station Rotary Table Size: 700×400 (mm)×2pcs
- Column-Moving
- X/Y/Z-axis travel: 700×400×300 (mm)
- BT30 Direct-Drive Spindle



Dual-Station Rotary Table

- Enables simultaneous machining and loading/unloading to maximize productivity
- Reduces idle time and increases machine utilization
- Shortens cycle time for high-efficiency mass production
- Enhances operator safety by separating machining and loading/unloading areas

High-Rigidity Structure

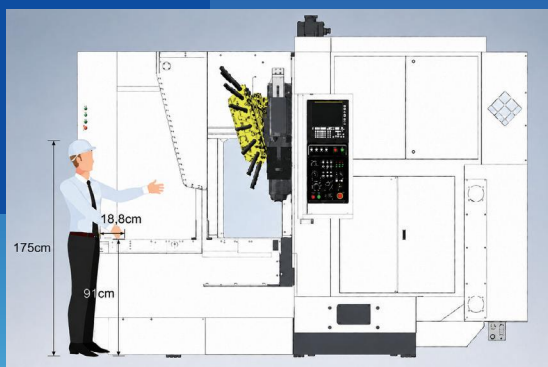


Standard Equipment

- Fanuc Controller
- 12,000 RPM (Direct-Drive Spindle)
- Spindle Oil Cooling & Temperature Control System
- Spindle Air Blowing Device
- 21T Servo Tool Magazine
- Automatic Lubrication System
- Full Enclosed Heat-Isolated Electrical Cabinet
- Transformer
- LED Work Light
- Three-Color Tower Light
- Air Gun & Water Gun
- Tool Box
- Tool Cooling System

Optional Equipment

- Mitsubishi Controller
- 20,000 RPM (Fanuc) / 24,000 RPM (Mitsubishi) (Direct-Drive Spindle)
- Coolant Through Spindle
- Spindle Oil-Mist Lubrication System
- BBT Dual-Contact Spindle
- Tool Length Measurement
- Tool Breakage Detection System
- Fourth Axis
- M Codes
- Air-Conditioning System for Electrical Cabinet
- Workpiece Air Blowing Device
- Full Enclosed Enclosure
- Oil Mist Collector
- Automatic Door
- Safety Door Lock
- Chip Conveyor
- Oil/Water Separator



Ergonomic Design

- Designed in accordance with ergonomic principles. The table height is approximately 91 cm from the floor and about 18.8 cm distance from the operator to the front edge of the table, making loading and unloading easier and more convenient.
- It improves working efficiency and helps reduce occupational injuries.

Specifications

Item \ Model		Unit	750 AC ₃	1000 AC ₃	700 AC ₃ S
Travel	X-axis	mm	750	1000	700
	Y-axis	mm	400		
	Z-axis	mm	300		
	Distance from spindle nose to table top	mm	180~480 (or 330~630)		260~560
	Distance from spindle center to Z-axis guideway	mm	190		
Table	Table size	mm	900 × 400	1100 × 400	700 × 400 (2 pcs)
	Max. loading capacity	kgs	350		700
	T-slot	—	14mm × 3 (slots)		18mm × 3 (slots)
Axis Drive	Rapid traverse rate	m/min	48 / 48 / 48		
	Cutting feed rate	mm/min	0.001~12000		
	X/Y/Z motor power	kw	3.0 / 3.0 / 3.0		
Spindle (Direct Drive)	Spindle diameter	mm	100		
	Max. spindle speed	rpm	12000		
	Spindle taper	—	BT30 × 45°		
	Spindle motor power	kw	7.5 / 5.5		
ATC Unit (Servo-Driven)	Tool storage capacity	T	21		
	Max. tool diameter	mm	100		
	Max. tool length	mm	200		
	Max. tool weight	kgs	3		
	Tool changing time (T-T)	sec.	1.5 (T~T)		
General	Machine height	mm	2800		
	Floor space (Width × Depth)	mm	1885 × 2828	2140 × 2828	2016 × 3200
	Machine weight	kgs	4500	4750	5600

■ Specifications are subject to change without prior notice. The actual machine shall prevail.

Machining Capacity

750 AC₃ / 1000 AC₃ / 700 AC₃ S (with Fanuc Controller)

Machining Material	Drilling		Tapping		Milling	
	Max.	Min.	Max.	Min.	MRR	Width×Depth×Feed
Aluminum Alloy(A6061)	31	0.3	M20 × 2.5	M1 × 0.25	340 cc/min	63 × 1.8 × 3000
Medium Carbon Steel(S45C)	24	1.65	M18 × 2.5	M2 × 0.40	139 cc/min	63 × 1.0 × 2200
Stainless Steel (SUS430)	20	0.92	M14 × 2.0	M1 × 0.25	101 cc/min	63 × 0.8 × 2000
Cast Iron(FC-25)	26	—	M20 × 2.5	—	113 cc/min	63 × 1.0 × 1800



*Driven by Quality
Strengthened by Expertise
Powered by Service
Inspired by Innovation*



Our complete range of tapping centers and machining centers is engineered for high-speed machining, rapid tool changes, and versatile manufacturing applications. Widely used in automotive, 3C electronics, watchmaking, medical, new energy, and precision component industries, our machines deliver outstanding productivity, accuracy, and reliability. In addition, we provide comprehensive machining solutions and full-process manufacturing support tailored to customer requirements.



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