

LINE UP

Twin Table NC Router **NCW-516**

This large dual table machine with 4 ATC heads, accelerates like a small CNC router



4-Router, 4-Piggyback Router

With this machine you can use the tables individually to load while you work, or combine them by programmed command to cut a very large part.

The wide bridge on this machine has several vertical members and internal bracing so deflection and vibration are not a problem, even during high speed cutting. Each ATC head has a carousel for 10 tools and we can change tools in other heads while we continue to cut with the other.

■ Specifications

(unit: mm)

Model		NCW-516-2162	NCW-516-2462
Stroke	X-axis	2,100 (6.9')	2,400 (7.9')
	Y-axis	6,200 (20.3')	
	Z-axis	350 (13.8')	
	U-axis	2,100 (6.9')	2,400 (7.9')
Table	Size	1,600X2,600 (5.2'X8.5')X2pcs.	2,100X2,600 (6.9'X8.5')X2pcs.
	Clamp	Suction(1 room)	
Head	No. 1,2,3,4	Front type ATC12kw, 3,000~18,000rpm, BT30(10tools) Collet Max. ϕ 20 (3/4")	
Head Lub.		Oil Mist	
Head Cooling		Forced Air Cooling	
Head Pitch		Fixed 637.5 (25")	
Daylight		200 (7.9')	
Tool. Chng. Stroke		150+80 (5.9'+3.1')	
Blower		7.5kwX2 required	
NC System		SHODA-FANUC	
Dimensions	WDXH	9,800X4,300X3,000 (32'X14.1'X9.8')	9,800X4,600X3,000 (32'X15'X9.8')

NOTE: Specifications and designs are subject to change without notice to improve product performance.



■ **NC-516 Specifications:** NC Router machine (Automatic tool change ATC system)

Unit: mm (inch)

Stroke	X (table movement)	1,600 (63)	Spindle lubricating system	Micro-fog lubrication system	
	Y (head left & right movement)	3,200 (126)		Feeding speed	Max. 24,000 mm/min
	Z (head up & down movement)	350 (13.8)		Blower	7.5 kW
Table area		1,600 × 2,100 (63 × 82.7)		Overall dimensions (Width × Depth × Height)	6,480 × 3,100 × 2,780 (255 × 122 × 109)
Head construction	No. 1 ATC head	8.5 kW (2P) 3,000 ~ 12,000 r.p.m. High frequency motor with an inverter. 90° turning. Spindle nose: BT40		Automatic tool changing system	Tool storage capacity: 12 Tool changing system: Fixed address random system Tool maximum diameter: φ130 Tool maximum length: 260 Tool maximum weight: 8 kg (Total weight: 60 kg)
	No. 2 spindle for routing and profiling	12 kW (2P) 3,000 ~ 18,000 r.p.m. High frequency motor with an inverter. Collet chuck			
	No. 3 spindle for routing and profiling	12 kW (2P) 3,000 ~ 18,000 r.p.m. High frequency motor with an inverter. Collet chuck		NC system	SHODA FANUC 3 axis control/ Simultaneous 3 axis control
	No. 4 spindle for routing and profiling	12 kW (2P) 3,000 ~ 18,000 r.p.m. High frequency motor with an inverter. Collet chuck			

■ **NCW-516 Specifications:** NC Router machine twin table type

Stroke	X1, X2 (table movement)	1,600 (63)
	Y (head left & right movement)	3,200 (126)
	Z (head up & down movement)	250 (9.8)
Table area		1,600 × 2,100 (63 × 82.7) 2 units
Head construction	No. 1 spindle for routing and profiling	12 kW (2P) 3,000 ~ 18,000 r.p.m. High frequency motor with an inverter. Collet chuck
	No. 2 spindle for routing and profiling	12 kW (2P) 3,000 ~ 18,000 r.p.m. High frequency motor with an inverter. Collet chuck
	No. 3 turning head	12 kW (2P) 3,000 ~ 12,000 r.p.m. High frequency motor with an inverter. 90° turning. Spindle nose: BT40
	No. 4 spindle for routing and profiling	12 kW (2P) 3,000 ~ 18,000 r.p.m. High frequency motor with an inverter. Collet chuck
	No. 5 spindle for routing and profiling	12 kW (2P) 3,000 ~ 18,000 r.p.m. High frequency motor with an inverter. Collet chuck
	No. 6 boring head	0.75 kW (2P), 3,450 r.p.m. Single spindle (No. 1 spindle: piggyback)
	No. 7 boring head	0.75 kW (2P), 3,450 r.p.m. Single spindle (No. 4 spindle: piggyback)

Unit: mm (inch)

Spindle lubricating system	Micro-fog lubrication system
Feeding speed	Max. 24,000 mm/min
Blower	7.5 kW × 2 units
Overall dimensions (Width × Depth × Height)	5,850 × 3,100 × 2,700 (230 × 122 × 106)
NC system	SHODA FANUC 4 axis control/simultaneous 4 axis control

Router (Quick Change Type)



BT30 Router with BT20 Piggyback Router



ATC



Front Type ATC (10 tools)



Quick Arm Type ATC (8 Tools)

HEAD OPTIONS

SHODA

Shoda's standard NC routers come with 4 parallel heads, but heads can be added or deleted according to your requirement. Different head configurations are more effective for batch production and other configurations work best for just-in-time kit production, or dynamic nesting of parts from full sheets. The following pages show some of the large variety of heads that are available optimize your production.

Router



Router 30,000rpm



Tornado Dust Hood



Piggyback Router 30,000rpm



Piggyback Router



NC Tilting Router
(± 45 deg.)



Horizontal Double Ended Router
(0 - 90 or 180 deg.)



Manual Tilting Router
(0 - 90 deg.)

Boring



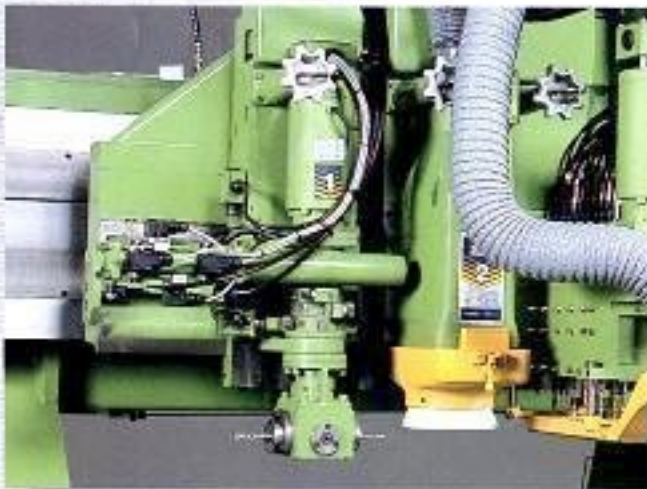
5-Spindle Horizontal Double Ended Boring (0 - 90 deg. Rotation)



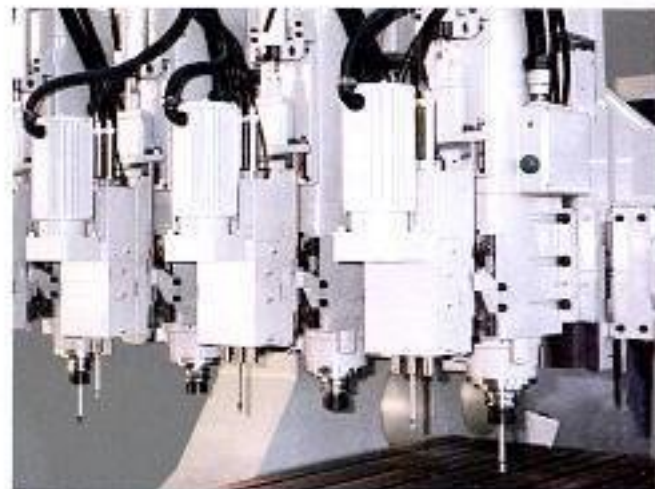
Piggyback Single Spindle Boring



20-Spindle Gang Boring



4-Direction Horizontal Boring (0 - 90 deg. Rotation)



Piggyback 3-Spindle Independent Boring



L-shaped 11-Spindle Independent Boring



L-shaped 21-Spindle Independent Boring with Detachable Horizontal Boring Unit

Table & Fixture



NC Controlled Lathe Attachment



Pop-up Table



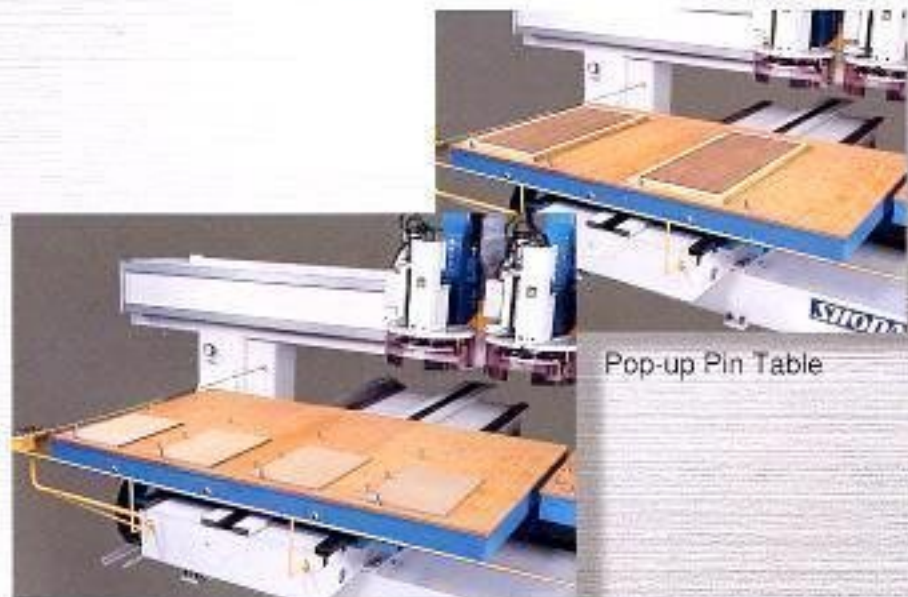
Locator Pins
0 - 90 deg. Rotation



Pop-up Table with Conveyor



Pod Table



Pop-up Pin Table



Work Air Clamp