



**CNC HORIZONTAL BORING, MILLING & DRILLING
MACHINES WITH SPINDLE DIAMETER 110MM**

— COLUMN MOVING TYPE —

X - 2000 / 3000 / 4000 mm

Y - 1500 mm

Z - 1500 mm

W - 550 mm

B - $4 \times 90^\circ \sim 0.001^\circ$

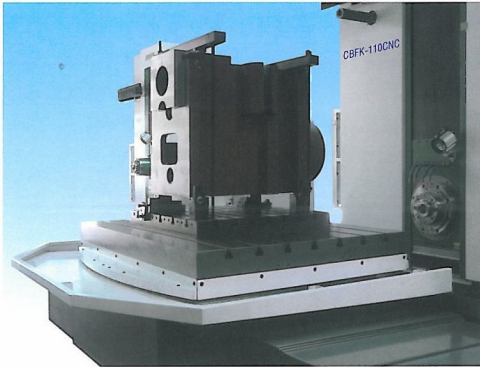


CBFK-110CNC



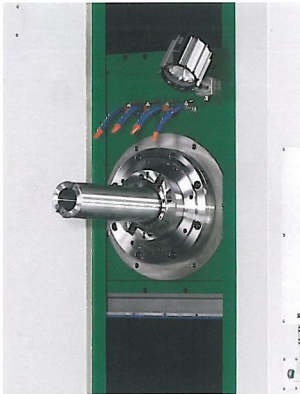
THE LEADER IN QUALITY AND RELIABILITY
~SINCE 1973~

CREATING A COMPETITIVE ADVANTAGE:



Main Feature:

- Digital infinitely variable AC drive technique, high power.
- Headstock with a projected main bearing system and precision spindle bearings.
- Nitrided axially traversing boring spindle with speeds up to 2500 rpm
- Backlash-free ball screws for all box way traversing axes.
- Wide machine bed for the longitudinal traverse of the table.



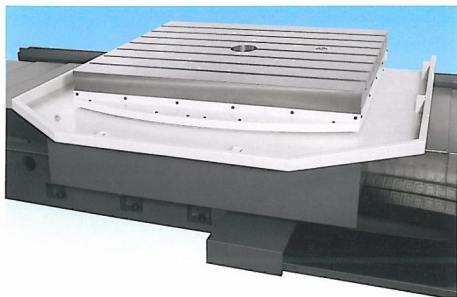
- The 550 mm spindle extension reduces the distance between the spindle nose and the center of the work table efficiently.
- The high precision spindle has an inner diameter of 110 mm



- X,Y and Z axes with linear scales as standard for high precision machining.

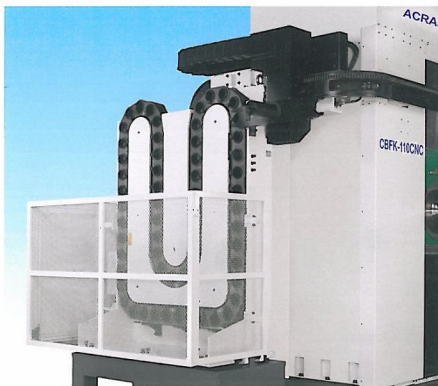


- Super sized coolant unit cooling spindle and gear box simultaneously.



- 1500 × 1200 mm rotary work table.
- Rotary setting in 0.001° increments.
- Additional table locking at any 90° increment to improve angular accuracy.
- Loading capacity up to 5000 kg.

- The auto tool changer system improves the machining efficiency.
 - Magazine capability of 60 tools.
 - Clamping by hydraulic.
- BT-50 or CAT-50 tapers are available.



Various state-of-the-Art CNC controllers to choose from:



Fanuc 18i / 21i



Heidenhain i TNC-530



Siemens 840D



Selca 4045D / PD / 4060D

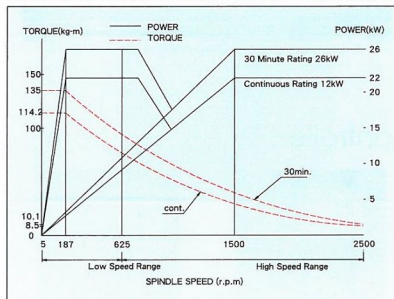
MODEL

CBFK-110CNC

Table	Table size	1500 × 1200 mm	
	T slot (width X no. X pitch)	22H8 × 7 × 150 mm	
	Max. load capacity	5000 kg	
	Auto indexing	0.001/Full B-axis Every 90 deg with locating pin	
Travel	Table height from ground	1050 mm	
	B-axis rapid feed	2 rpm	
	X-axis (Transverse travel of table)	2000 mm	Optional 3000, 4000 mm
	Y-axis (Vertical travel of spindle head)	1500 mm	
	Z-axis (Longitudinal travel of column)	1500 mm	
	W-axis (Spindle axial)	550 mm	
Spindle	Spindle nose to table center	-130 ~ 1920 mm	
	Spindle center to table top	0 ~ 1500 mm	
	Spindle nose	BT50	
	Spindle diameter	110 mm	
	Max. torque of spindle	135 kg-m	
Feeds	Speed / 2 ranges (auto)	Lo-Speed	5 ~ 625 rpm
		Hi-Speed	625 ~ 2500 rpm
	Rapid X, Y, Z, W - axis	10 / 10 / 10 / 5 m/min	
	Feed rate of X, Y, Z - axis	1 ~ 6000 mm/min	
	Feed rate of W - axis	1 ~ 5000 mm/min	
A.T.C.	X,Y, Z ballcrew (Dia. / Pitch)	63 / 10 mm	
	W-axis ballscrew (Dia. / Pitch)	40 / 10 mm	
	Magazine capacity	60 pcs	
	Pull stud	MAS-P50T-1	
	Max. tool length	400 mm	
Motors	Max. tool weight	25 kg	
	Max. tool diameter	125/250 mm	
	Tool selection	Random selection	
	Tool change time (approx)	13 sec	
	Spindle motor (continuous / 30 minute)	22 / 26 kW	
General information	Servo motor for X / Y / Z / B / W	6 / 6 / 6 / 7 / 7 kW	
	Centralized lubrication pump	150 W × 2 pcs	
	Hydraulic pump	3.7 kW	
	Spindle oil cooler pump	1.18 kW	
	Coolant pump	1.34 kW	
	Pneumatic required	6 kg/cm ²	
	Coolant tank	250 L	
	Machine dimension	4480 × 5510 × 3720 mm	
	Machine weight (approx.)	23500 kg	
	CNC control	Fanuc 18i-MB	

● Specification subject to change without notice

FANUC i Series Spindle Motor Power & Torque Diagram



STANDARD ACCESSORIES

1. Absolute Linear scales on X,Y,Z and W-axis
2. Absolute angle encoder on B-axis
3. Spindle oil cooler
4. Centralized auto lubrication system
5. Programmable coolant system
6. Programmable air blow
7. Heat exchanger for cabinet
8. Work lamp
9. Screw type chip conveyor
10. M30 Automatic power off
11. Portable MPG handwheel
12. Alarm lamp
13. RS-232 interface port
14. Tool box with adjustment tools
15. Leveling blocks and bolts

OPTIONAL ACCESSORIES

1. Coolant through spindle
2. Chain type chip conveyor with bucket
3. Spindle extension sleeve
4. Table splash guard cover
5. Transformer for power input not 220V



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