



# CNC horizontal boring mill

## HBW-FC

Fixed column, machine with B-axis



### Standard configuration

- FANUC 0i-MF CNC controller
- ATC 40 tools
- Glass linear scales for X/Y/Z axes
- Spindle oil cooling
- Automatic power off
- Hydraulic system
- Coolant system
- Automatic lubrication
- Three-color warning light
- Work light
- Electrical handwheel (MPG)
- Heat exchanger for electric cabinet
- Chip conveyor and chip chart
- Leveling pads and bolts
- Operation manual
- Backsplash guard
- Tool kit

- Fixed column construction
- Main spindle with powerful ZF transmission
- Resolution of 1° in the rotary table (opt. 0.001°)
- Glass scales in X/Y/Z axes
- 40-piece tool changer/chain magazine
- FANUC 0i-MF CNC control

### Optional configuration

- Fanuc, Mitsubishi, Siemens or Heidenhain CNC control
- ATC 60/80/120 tools
- Micro coolant
- Custom support tables
- Extension sleeves, 250/300 mm (9.8/11.8")
- Coolant through spindle
- Additional milling heads, 90°
- Work piece measurement
- Tool measurement
- Motor power enlargement
- Table extension



Minimal deflection of spindle extension (W-axis)

Specifications		HBW-FC		
		1612/110	2014/110	2014/130
		63" x 59" travels, 4" spindle	78" x 70" travels, 4" spindle	78" x 65" travels, 5" spindle
Table size	mm	1100x1250x1° (43x49"x1°)		1250x1250x1° (49x49"x1°)
T-slots	mm	22x5 (0.86x0.2")		22x7 (0.8 x0.02")
Max. table load	kg	4000 (8800 lbs)		5000 (11,000 lbs)
Travels	X	1600 (63")		2000 (78")
	Y	0-1500 (0-59") [opt. 1800 (70")]		1800 (70")   1650 (65") [opt. 2150 (85")]
	Z	1200 (47")		1400 (55")
	W	400 (14.75") [opt. 500 (19.6")]		700 (27.5")
Diameter	mm	Ø110 (4")		Ø130 (5")
Speeds	rpm	10~2500 [opt. 3000]	10~2500 [opt. 3000, 4000]	10~2000 [opt. 2500, 3000]
Spindle taper		BT 50 / CAT 50		
Distance spindle center-table	mm	0~1500 (0~59") [opt. 1800 (71")]	0~1800 (0~71")	0~1650 (0~65")
Spindle-table distance	mm	0~1600 (0~63") [opt. -100~1600 (-4~63")]	90~1890 (3.5~74") [opt. -10~1890 (-0.4~74")]	-210~1890 (-8.27~74")
Rapid Feed rate X/Y/Z	m/min	12 (472"/min)		12/10/12 (472/394/472"/min)
Rapid Feed rate W	m/min	10 (394"/min)		6 (236"/min)
Minimum Setting	mm/min	0.001 (0.00004")		
Cutting Feed Rate	mm/min	1~5000 (0.04~197"/min)		
Main spindle motor	kW	18.5 (25 Hp) [opt. 26 (35 Hp)]		
No. of Tools	pieces	32 (40,60)	40 (60)	
Tool Change Time	Sec.	15		
Item No.		1000201	1000202	1000203

\*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.