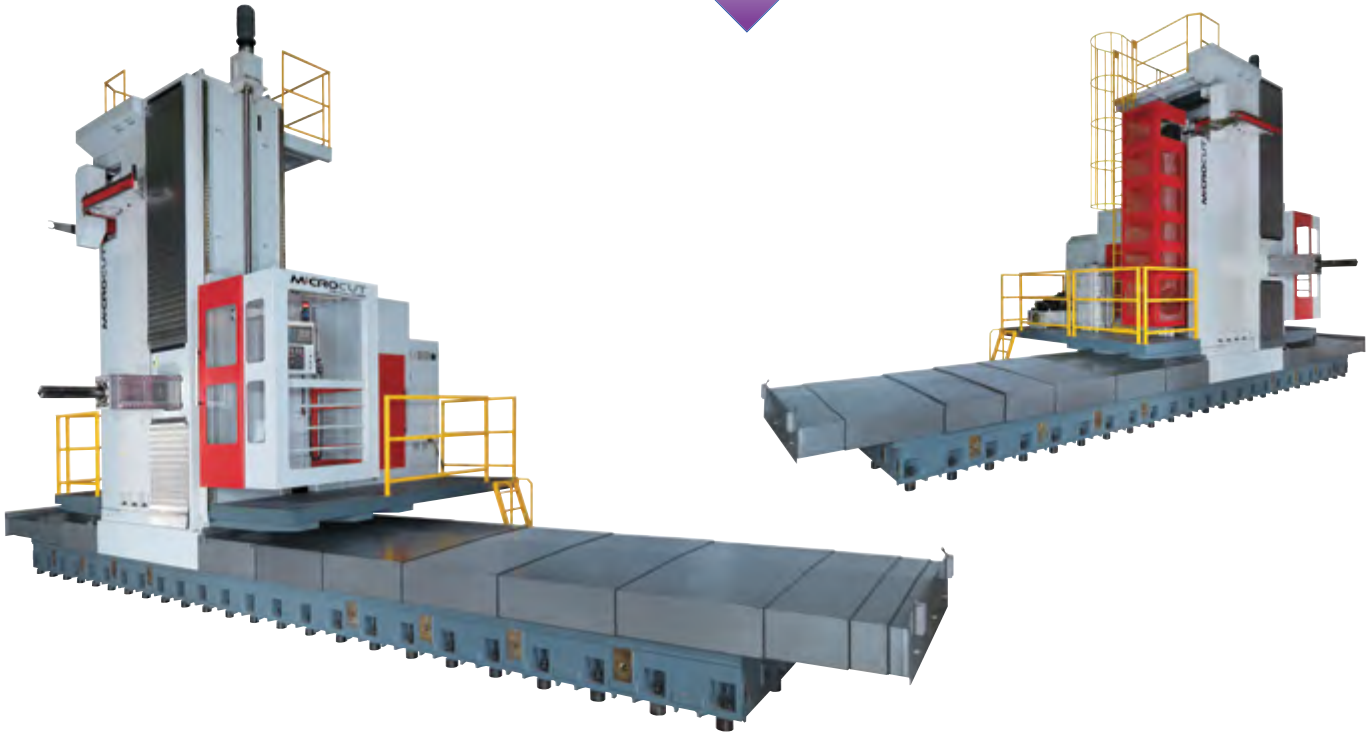


Microcut floor type CNC horizontal boring & milling center HBM-RF type Series

Best
Quality



MICROCUT's floor type CNC horizontal boring & milling center type HBM-RF has high practicality on milling, drilling, boring and threading, suitable for the workpieces with complex shape, e.g. windmill cabinet, parts used in railway industry and components with high-torque performance used in aerospace industry. However, a variety of table combinations are available to meet all industries' demands. A variety of optional milling heads are available for various processes.

A hydraulic compensation mechanism is provided to ensure the linearity of the RAM's spindle and the accuracy of the machine, also called Straightness Compensation Technology "SCT".

Distinctive features:

- Linear guideway structure RAM
- Extra long travel
- Camlock design for rapid clamping/unclamping of multi-angle head/facing head
- X-axis is rack transmission with roller-type linear guideway to give super stability during heavy loading machining with high speed
- Y-axis guideway is the box way design, integrated with cast iron column, offers strong structure and high rigidity
- V- & Z-axes with roller-type linear guideways provide optimised geometrical accuracy and decrease vibration
- Rotary-type or fixed-type working table selectable for different workpieces
- Interface available for various heads

Standard equipment:

- Heidenhain iTNC530 HSCI, Fanuc 31iMB or Siemens 840D sl control
- Spindle and servo motor package
- Precision ground ballscrew
- ISO50 spindle
- Coolant system
- Spindle speed 2000~3000rpm
- CE marking declaration conformity for EU
- Heavily ribbed cast iron components
- Automatic central lubrication
- Telescopic covers
- Low voltage circuit system

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Best
Quality

Optional equipment:

- Tool setting probe RENISHAW OTS
- Workpiece probe RENISHAW RMP-60
- Tool setting probe BLUM TC-54-20
- Workpiece probe BLUM TC-60
- Angle milling head
- Universal milling head
- NC facing head



Linear guideway RAM



Universal head



Right angle milling head



Hydrostatic RAM



Facing head



Facing head

		HBM-RF
Table size	mm	2500 x 2500
Table height	mm	1415
Max. table load	T	20 T
X-axis travel	mm	6,000/8,000/10,000/12,000/14,000/16,000
Y-axis travel	mm	3200
Z-axis travel (RAM)	mm	800
W-axis (quill) travel	mm	700
Spindle speed	RPM	2500
Spindle output	kW	Fanuc 37/45
Spindle torque	Nm	2362
Spindle gear range		2 steps (auto)
Quill diameter (W-axis)	mm	Ø140
Rapid feed rate X/Y/V/Z/W-axes	m/min.	10/10/10/10/10
X-axis guideway type		Linear / 65 mm (roller)
Y-axis guideway type		Box way
V-axis guideway type		Linear / 65 mm (roller)
Z-axis guideway type		Linear / 45 mm (roller)
W-axis guideway type		Linear / 25 mm (roller)
ATC arm type- tools	Nos.	60
Weight	kg	43000