

Microcut CNC horisontal boring & milling center HBM Table type Series

Best
Quality



MICROCUT's CNC horizontal boring & milling center type HBM is equipped with a large working table supported with large diameter bearings with high indexing accuracy. The generous dimension of the hydraulic clamping system enables the capability for heavy cutting.

All major structural components are made from Meehanite licensed casting iron. X-, Y- and Z-axes are box way design, perfect for heavy duty, high accuracy machining and high reliability. One-piece bed design ensures high rigidity and vibration resistance.

Distinctive features:

- Spindle and sleeve are made from chrome alloyed steel
- Spindle and quill are driven by the servo unit and lubricated by sintered bronze to ensure durability and longevity
- Rotary table with large-diameter bearings
- All bearing surfaces are coated with low-friction pad
- Linear scales on three axes ensure exact axial positioning under fluctuation (option)
- C3 class ballscrews with double nuts on X/Y/Z-axes
- All ballscrew nuts are preloaded to ensure less tension deforming, and the ballscrews are with thermal compensation

Standard equipment:

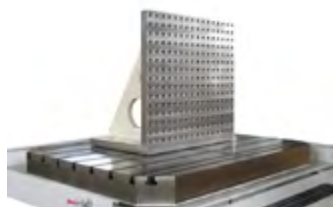
- Heidenhain, Fanuc or Siemens control with standard software functions
- Auto power off
- Spindle vibration monitoring
- Chip auger for table
- Coolant system
- Hydraulic system
- Auto lubrication system
- Program end and alarm lamp
- Work lamp
- MPG box
- Machining leveling plate
- Oil level detector unit
- Alarm for oil level
- CE marking declaration conformity for EU

Microcut CNC horizontal boring & milling center HBM Table type Series

Best
Quality

Optional equipment:

- Automatic tool changer
- Angular block
- Support stand and rotary arm (HBM-4)
- Safety module
- Air conditioner
- CTS unit
- Oil skimmer
- Power transformer
- Table guard for CTS
- Safety guard for operator
- Tool setting probe
- Work piece probe
- EMC
- Available controls:
10,4" colour display Fanuc or Siemens, 15" colour display Heidenhain



Angular block



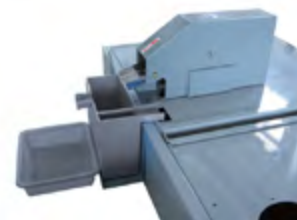
Table guard
with folding
door



Safety module



CTS unit



Oil skimmer

		HBM-3	HBM-4
Table size	mm	1250 x 1500	1250 x 1500
Table height	mm	1290	1120
Max. table load	kg	5000	5000
Rotary table indexing degree	degr.	1° (std.) / 0,001° (opt.)	1° (std.) / 0,001° (opt.)
X-axis travel	mm	2000	2200
Y-axis travel	mm	1700	1600
Z-axis travel (RAM)	mm	1400	1600
W-axis (quill) travel	mm	550	550
Spindle output	kW	15-18,5	15-18,5
Spindle torque	Nm	740	740
Spindle gear range		2 steps (auto)	2 steps (auto)
Rapid feed X-axis	m/min.	15	12
Rapid feed Y-axis	m/min.	15	12
Rapid feed Z-axis	m/min.	12	12
Rapid feed W-axis	m/min.	6	6
ATC arm type- tools	Nos.	28/40/60	28/40/60
L x W x H	mm	6950 x 4600 x 3900	7750 x 4715 x 3700
Weight	kg	25500	22500