

Microcut CNC horizontal boring & milling center HBM-T type Series

Best
Quality



MICROCUT's CNC horizontal boring & milling center type HBM-T is equipped with a powerful gear box driven spindle, ensuring a high spindle speed, and ISO50 spindle taper. The flexibility of the machine makes it suitable for many different workpieces carrying a weight of up to 10000 kg. The HBM-T can be equipped with numerous technological accessories and various control systems.

Roller type linear guideway takes loads and enables movement in all directions.

Distinctive features:

- Spindle construction with 2 pcs. NN bearings at the front and rear
- Spindle and quill are driven by the servo unit and lubricated by sintered bronze to ensure durability and longevity
- Rotary table with integrated hydraulic clamping force
- All major structural components are made from Meehanite licensed casting iron
- Linear scales on three axes ensure exact axial positioning under fluctuation
- C3 class ballscrews with double nuts on X/Y/Z/W-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
- Spindle and servo motor package
- Large fully ground work table with 9 T-slots
- Precision ground ball screw
- Heavily ribbed cast iron components
- ISO50 spindle
- Heavy duty radius type metal enclosure with removable slide
- Auto central lubrication
- Coolant system
- Chip drawers
- Telescopic way covers
- 3000 rpm spindle
- Low voltage circuit system
- CE marking declaration conformity for EU

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Optional equipment:

- Automatic tool changer
- Angular block
- Safety module
- Air conditioner for electric cabinet
- Oil skimmer
- Table guard for CTS
- Safety guard for operator
- EMC
- Chip conveyor
- Heat exchanger
- Coolant through spindle device
- Spindle extension sleeve
- Right angle milling head
- Universal head
- Facing head
- Lifting device
- Automatic pallet changing system
- Portable MGP
- Available controls:
10,4" colour display Fanuc or Siemens, 15" colour display Heidenhain



Automatic pallet
changing system



Heidenhain
iTNC530 HSCI



Siemens 840D sl



Fanuc 31i/32i

All systems provide full control of 5 axes, especially Heidenhain control comes with spindle rotation function.

		HBM-3T	HBM-4T	HBM-5T	HBM-5TL
Table size	mm	1400 x 1600	1400 x 1600	1800 x 2200	2500 x 2500
Table height	mm	1280	1280	1365	1415
Max. table load	kg	8000	8000 (10000 opt.)	15000 (20000 opt.)	20000
Rotary table indexing	degr.	0,001°	0,001°	0,001°	0,001°
X-axis travel	mm	2000 (3000 opt.)	2000 (3000 opt.)	3500 (4500/5500 opt.)	3500 (4500/5500 opt.)
Y-axis travel	mm	2000	2000	2600 (3200 opt.)	3200 (2600 opt.)
Z-axis travel	mm	1400 (1700 opt.)	1400	1400 (2000 opt.)	2000 (1400 opt.)
W-axis (quill) travel	mm	550	700	700	700
Spindle output	kW	15/18,5	22/30 ; 37/56	37/45 ; 37/56	37/45 ; 37/56
Spindle torque	Nm	740	3002/4093	1942/2362	1942/2362
Spindle gear range		2 steps	2 steps	2 steps	2 steps
Rapid feed X-axis	m/min.	10	10	10	10
Rapid feed Y-axis	m/min.	10	10	10	10
Rapid feed Z-axis	m/min.	10	10	10	10
Rapid feed W-axis	m/min.	6	8	8	8
ATC arm type- tools	Nos.	40T	60T	60T	60T
Weight	kg	43000	40000/42000	49000 - 58000 (depending on X travel)	