

Microcut machining Center type HM-Series

Best
Quality



MICROCUT horizontal machining center HM-6300 with Fanuc 32iB control, is a T type column moving horizontal machining center providing ISO50 BBT spindle taper with 6000rpm spindle speed and auto 3-step speed changer for high torque throughout within a speed range by automatic control, and 40 tools ATC. In addition the high rigidity and stability of its construction offer customers the maximum productivity and the best profit.

HM is ideal for all kinds of industries, e.g. die and mold, oil and gas, shipbuilding, automotive and aerospace industries.

Distinctive features:

- Rigid spindle with 6000rpm, BBT50 spindle tooling and 3-step speed changer at high speed output
- Extremely large working capacity with table loading capacity
- AC servo motor provides extremely high torque, power and axis force
- Meehanite cast iron construction provides excellent mechanical stability
- Box guideway with hardened and ground X/Y/Z axes offer rigid and rapid feed
- High precision C3 class hollow shaft ballscrew with double nuts
- High indexing accuracy rotary table; 0.001 degree rotary table is available
- Linear scales on axes and angle encoder on B axis give absolute positioning accuracy

Standard equipment:

- CNC control and spindle & servo motor package
- Ground work table with 5 T-slots
- Precision ground ballscrew
- Heavily ribbed cast iron components
- ISO 50 BBT spindle
- Automatic central lubrication
- Coolant system
- Chip drawers
- Telescopic way covers
- Low voltage circuit system
- 1.2 T table loading
- Spindle oil cooler
- Automatic tool changer 40T
- Chip auger
- Hollow ballscrew with oil cooling system for X/Y/Z axes
- Portable MPG
- Reservation for coolant through spindle oil system
- Automatic power off device
- Automatic two pallet changer
- Oil tank
- Fully enclosed guard with working light
- CE marking declaration conformity for EU

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Optional equipment:

- Tool changer (ATC) 60 tools
- Single working table
- Encoder for 3 axes
- CTS system with 20/70 high pressure pump
- Water gun
- Spray cooling on top
- Chip conveyor
- Workpiece probe
- Tool probe
- Oil skimmer
- Air conditioner



Renishaw RTS tool probe



Workpiece probe



Linear scale for X/Y/Z axis



Oil skimmer



Chip conveyor

		HM-6300
Table size	mm	630 x 630
Max. table load	kg	1200 x 2
Travel X axis	mm	1050
Travel Y axis	mm	1100
Travel Z axis	mm	750
B axis index	degr	1/0.001 (opt)
Spindle taper		ISO 50 (7:24) / BBT 50
Spindle speed	rpm	6000
Transmission		Gear box
Spindle step		3 steps (auto)
Guideway type		Box way
Automatic tool changer - tool capacity		40 / 60(opt.)
Max. tool length	mm	610
Weight machine	kg	21000