Machine Name : Horizontal Machining Center

Brand : US wheeler

Machine Model : HM6300

Stock No. : 813541

Ex-factory Date : 2026



Main Technical Parameters:

CNC system: FANUC Oi-MF Plus
Worktable size: 630 × 630 mm
Worktable indexing: 1° × 360°
Maximum worktable load capacity: 1,500 kg
Number of T-slots: 5
T-slot dimensions (width × pitch): 18 × 125 mm
Three-axis travel (X × Y × Z): 1,100 × 800 × 900 mm
Maximum workpiece swing diameter: Ø1,200 mm
Distance from spindle centerline to worktable surface: 130–930 mm
Distance from spindle nose to worktable center: 170–1,070 mm
II. Spindle Configuration
Spindle diameter: Ø190 mm
Spindle taper: BT50
Spindle drive system: Belt-driven (3/4)
Spindle speed: 50–6,000 rpm
Main motor power: 15 / 18.5 kW
Main motor torque (rated / maximum): 143 / 236 N·m
III. Feed System and Accuracy
Servo motor drive system: Direct drive
Cutting feed rate: 1–10,000 mm/min
Minimum feed increment: 0.001 mm
Rapid traverse rate (X / Y / Z): 24 / 24 / 24 m/min
B-axis rotational speed: 10 rpm
Positioning accuracy (X / Y / Z): 0.015 mm
B-axis positioning accuracy: ±50 arcsec
- Repeatability (X / Y / Z): 0.01 mm
- B-axis repeatability: ±40 arcsec
IV. Operating Requirements and Machine Specifications
Power capacity: 35 kVA
Lubricating oil tank capacity: 4 L
Coolant tank capacity: 300 L
Air supply pressure: 6–8 bar

Overall dimensions (L × W × H): 5,005 × 4,000 × 3,050 mm
Machine weight: Approx. 11,500 kg
V. Tool Magazine Configuration
Tool magazine type: ATC robotic-arm disc-type
Tool selection method: Bidirectional random-access preselection
Tool magazine capacity: 30 tools
Tool holder type: P-50T 45°
Maximum tool length: 400 mm
Maximum tool weight: 18 kg
Maximum tool diameter (full magazine / adjacent empty pocket): Ø112 / Ø200 mm
Tool-to-tool change time (T-T): 5.5 seconds
VI. Standard Configuration
1. FANUC CNC system with 10.4-inch display
2. Power transformer
3. Ethernet interface, USB port and CF card slot
4. Electrical cabinet heat exchanger
5. Automatic centralized lubrication system
6. Fully enclosed sheet-metal safety enclosure
7. Axis protective covers
8. Electrical cabinet dust protection
9. Three-color signal tower light
10. Separate electronic handwheel (MPG)
11. LED work light
12. Workpiece cooling system
13. Spindle tool release button
14. Foundation bolts and leveling pads
15. Pneumatic air filtration unit
16. Internal four-screw and chain-type chip conveyor system
17. Coolant tank and chip collection trolley
18. Automatic tool magazine door
19. Machine base flushing system
20. Hydraulic station
21. Cleaning air gun and water gun

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伺服轴	伺服电机驱动方式	-	直联驱动
	切削进给速度	mm/min	1-10000
	最小进给量	mm	0.001
快移速度	X/Y/Z	m/min	24×24×24
	B轴	r/min	10
定位精度	X/Y/Z	mm	0.015
	B轴旋转	秒	±50"
重复定位精度	X/Y/Z mm		0.01
	B轴旋转	秒	±40"
工作条件	电力容量	KVA	35
	润滑油容量	L	4
	水箱切削液容积	L	300
	气源压力	Bar	6~8
外形尺寸	长度×宽度×高度	mm	5005×4000×3050
机床重量	(约)	kg	11500
控制系统	FANUC 0i MF Plus		

2、刀库参数：

刀库	刀库形式	ATC机械手圆盘式	
	选刀方式	双向预选刀	
	刀库容量	30	把
	刀柄类型	P-50T 45°	
	最大刀具长度	400	mm
	最大刀具重量	18	kg
	最大刀盘直径(满刀/邻空刀	ø 112/ø200	mm
	换刀时间（T-T）	5.5	s

3、机床标准配置

	内 容		
1	发那科数控系统：0.4寸屏	11	变压器
2	电气柜热交换器	12	以太网通信接口、USB、CF卡插槽
3	自动给油润滑装置	13	灯万按钮
4	钣金全防护罩	14	地脚螺栓及垫块
5	各轴防护罩	15	气动过滤装置

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