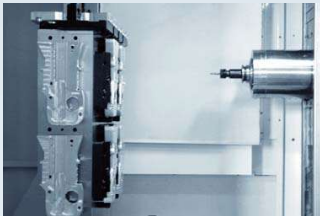
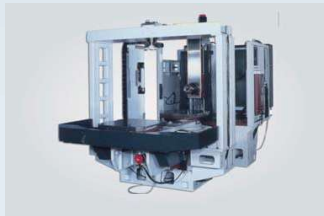
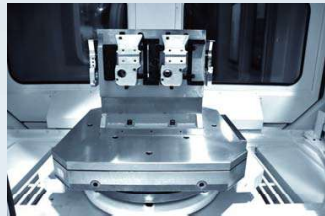


Horizontal Machining Center MDH Series



Specification	Unit	MDH40P	MDH50PS	MDH50	MDH50A	MDH65S	MDH65	MDH65A	MDH80S	MDH80	MDH80A	MDH100S	MDH125
Table													
Worktable size (L*W)	mm	400×400	500×500	500×500	500×500	630×630	630×630	630×630	800×800	800×800	800×800	1000×1000	1250×1250
No. of Pallet		2	2	Single table	2	2	Single table	2	2	Single table	2	2	2
Table type		IT Opt:BRT		IT Opt:BRT		IT Opt:BRT		IT Opt:BRT		IT Opt:BRT		IT Opt:BRT	
Table indexing		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)		IT (1°×360°) BRT (0.001°×360°)	
Table indexing time	S	1.9(90°)		1.7(90°)		1.7(90°)		1.7(90°)		4.5(90°)		5(90°)	
Pallet changing time	S	5		6		6		12		12		12.5	
Max. table load	Kg	400		800		800		1300		2000		3000	
Travel													
X/Y/Z axis travel	mm	630/620/710		780/750/800		1050/900/900		1050/900/800		1400/1100/1050		1400/1100/1000	
X/Y/Z axis guide way type		Linear roller guideway											
Distance from table surface to spindle center	mm	80~700		80~830		80~980		80~980		80~1180		70~1470	
Distance from spindle nose to table	mm	150~860		150~950		200~1100		300~1100		200~1250		250~1250	
Feedrate													
Rapid traverse of X/Y/Z axis	m/min	60		54		54		54		45		45	
Max. cutting feed rate	m/min	20		20		20		20		20		20	
Spindle													
Spindle taper		No.40 (7:24)		No.50 (7:24)		No.50 (7:24)		No.50 (7:24)		No.50 (7:24)		No.50 (7:24)	
Max spindle speed	rpm	10000(Direct-Drive) Opt:12000(Direct-Drive)		8000(Motorized) Opt:12000(Motorized) Opt:6000(Gear drive)		8000(Motorized) Opt:12000(Motorized) Opt:6000(Gear drive)		8000(Motorized) Opt:12000(Motorized) Opt:6000(Gear drive)		8000(Motorized) Opt:12000(Motorized) Opt:4000(Gear drive) Opt:24000(Gear drive)		6000(Motorized) Opt:8000, 12000(Motorized) Opt:6000(Gear drive)	
Spindle motor power (Continuous/30 min)	kw	10000rpm:7.5/11 12000rpm:7.5/11		8000rpm:18.5/22 12000rpm:25/30 6000rpm:22/26		8000rpm:18.5/22 12000rpm:25/30 6000rpm:22/26		8000rpm:18.5/22 12000rpm:25/30 6000rpm:22/26		8000rpm:25/30 12000rpm:25/30 4000rpm:22/26 24000rpm:30/37		6000rpm:37/55 8000rpm:25/30 12000rpm:25/30 6000rpm:22/26	
ATC													
Tool magazine capacity	T	40		40		40		40		40		40	
Tool shank type		BT40		BT50		BT50		BT50		BT50		BT50	
Max. tool length	mm	350		500		500		500		500		500	
Max. tool weight	Kg	8		25		25		25		25		25	
Max. tool diameter (w/o adjacent tools)	mm	Φ82(Φ150)		Φ115(Φ270)		Φ115(Φ270)		Φ115(Φ270)		Φ115(Φ270)		Φ115(Φ270)	
Tool changing time(T-T)	s	1.2		2		2		2		2.5		2.5	
Accuracy													
X/Y/Z axis positioning accuracy	mm	0.008		0.008		0.010		0.010		0.010		X:0.015 Y:0.012 Z:0.012	
X/Y/Z axis repeatability accuracy	mm	0.005		0.005		0.006		0.006		0.006		X:0.007 Y:0.007 Z:0.007	
CNC controller													
CNC controller		FANUC 31i		FANUC 31i		FANUC 31i		FANUC 31i		FANUC 31i		FANUC 31i	
General													
Machine dimension (L×W×H)	mm	992×2588×2771	992×2588×2771	912×3008×3128	1490×3200×3115	1421×3200×3125	1645×3342×3358	1650×3342×3358	1910×3500×3342	1910×3602×3307	1653×3717×3021	1653×3717×3021	8180×6067×3702
Machine weight	Kg	8000	8000	15000	14000	15000	18000	16500	18500	24000	21000	24500	32500

Standard configurations

- Spindle with two speed range
- Core-cooled ball screws
- Chain type tool magazine
- Screw type chip conveyor(Double-side mounted)
- Auto lubrication system
- Rigid tapping
- Heat exchanger

Optional

- Built-in rotary table(BRT)
- Ceiling shower
- High volume flushing system
- Tool probe & work piece probe
- Air conditioner
- Oil-water separator system
- HEIDENHAIN linear scale
- Chain-type chip conveyor
- Gear box spindle
- Mist collector
- 60T/80T/120T Chain type tool magazine(60T/80T MDH125)
- Coolant-through spindle coolant system and high-pressure unit