

HF-500A

HORIZONTAL HIGH SPEED CUTTING
MACHINING CENTER



Twinhorn[®]

<http://www.twinhorn.com.tw>

MACHINE SPECIFICATION

	Model	HF-500A
Travel	X axis travel	500mm (19.7")
	Y axis travel	420mm+140mm tool change travel (16.5"+5.51")
	Z axis travel	380mm (14.96")
Spindle	Spindle nose to B axis center	100 - 480mm (3.94" - 18.9")
	Spindle center to B axis surface	90 - 510mm (3.54" - 20.08")
	Spindle taper	7/24 No. 30
	Spindle driven type & revolution	Direct Driven : 12000rpm
	Spindle diameter	50mm (1.97")
Table	Table size (LxW)	380 x 380mm (14.96" x 14.96")
	Min. division	0.001 degree
	Center hole	Ø60H7
	Servo motor	mitsubishi HF - 154T - A48
	Reducer ratio	1:120
	Max. speed of rotary table	16.6rpm
	Rotating torque	48kg-m
	Cutting capacity	85kg-m (35kg/cm ²)
	Max. loading	200kgf (440lbs)
	Accumulate division accuracy	20sec
	Repeatability accuracy	± 2sec
Feedrate	Rapid feedrate (X/Y/Z)	48 / 48 / 48m/min (1890 ipm)
	Cutting federate	10 m/min (394 ipm)
	Y axis counter weight balance	N/A
	Ball screw diameter & pitch	32mm,P16
Accuracy	Positioning	VDI 3441 P0.014mm (JIS B6338 ± 0.004mm/300mm)
	Repeatability	VDI 3441 P50.010 (JIS B6338 ± 0.003mm)
ATC	Tool shank	BT30
	Tool number	20
	Tool change time	60Hz : T-T 5sec (adjacent)
	Pull stud	MAS 403 P30T-1 45°
	Max. tool diameter w/ adjacent tool	60mm (2.4")
	Max. tool diameter w/o adjacent tool	100mm (4")
	Max. tool length	200mm (7.9")
	Max. tool weight	3kg (6.6lbs)
Motor	Tool selection method	random
	Spindle motor	MITSUBISHI SJ-VL11-02ZT (12000rpm)(2.2kW(cont.) / 3.7kW(15min))
	Axial motor X/ Y/ Z	XZ : MITSUBISHI HF154T-A48 (1.5kW) Y : MITSUBISHI HF204BS-A48 (2kW)
	Coolant pump motor	0.56kW
	Side flushing pump motor	1.27kW
General Information	Controller (Std.)	MITSUBISHI M70
	Power capacity	10kVA
	Air pressure capacity	5-6 kg/cm ² , 150L/min
	Machine dimension (WxDxH)	1500 x 2500 x 2450mm (59.1" x 98.4" x 96.5")
	Machine weight	3500kg (7700lbs)

*Specifications and design characteristics are subject to change without prior notice.

STANDARD FEATURES

- Spindle oil cooler
- Coolant tank
- Fully enclosed splash guard
- Work lamp
- Auto lubrication system
- Pilot lamp
- Spindle air blast
- Auto side flushing device
- Spindle air seal
- Work air blast
- Coolant system
- Rigid tapping
- Heat exchanger for electrical cabinet
- Tool and tool box
- Leveling bolt & pads
- Mechanical manual, part lists, Operating manual, Electrical manual, Test report, operator's manual and maintenance manual of the controller
- Eyebolt
- Safety switch

OPTIONAL FEATURES

- BT30 pull stud
- Auto tool length measurement
- Coolant through spindle
- Oil skimmer
- Air gun
- Coolant gun
- Transformer
- Coolant switch
- Portable MPG

Controller

- FANUC 0i-MC(B)
- Spindle motor: FANUC α2/15000i (2.2kW(cont.) / 3.7kW(15min))
- Axial motor X/ Y/ Z: X,Z : FANUC β8/3000is (1.2kW)
- Y : FANUC β12/3000isB (1.8kW)
- B : FANUC β8/3000is (1.2kW)



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