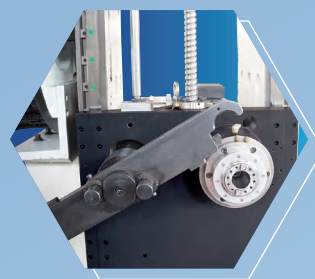




**GRAND
SEIKI**

Nothing But The Best



HS 500

CNC HORIZONTAL MACHINING CENTER



GRAND SEIKI MACHINERY CO., LTD.



HS 500

CNC HORIZONTAL MACHINING CENTER



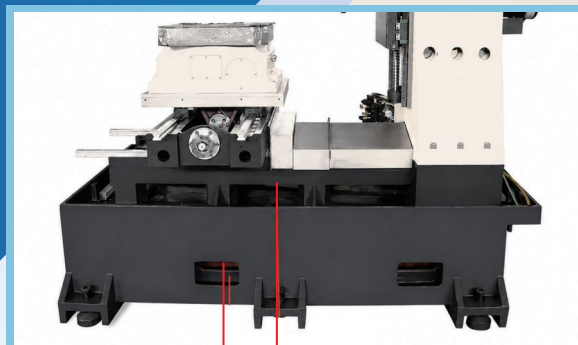
- Table size: 500 x 500 mm
- Saddle-Moving
- X/Y/Z-axis travel: 650 x 500 x 500 mm
- BT40 direct-drive spindle



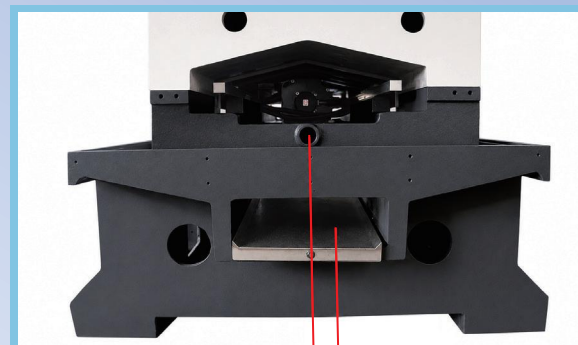
- Machine Dimensions with Chip Conveyor (Opt.): 3155x2884x2891 (mm)



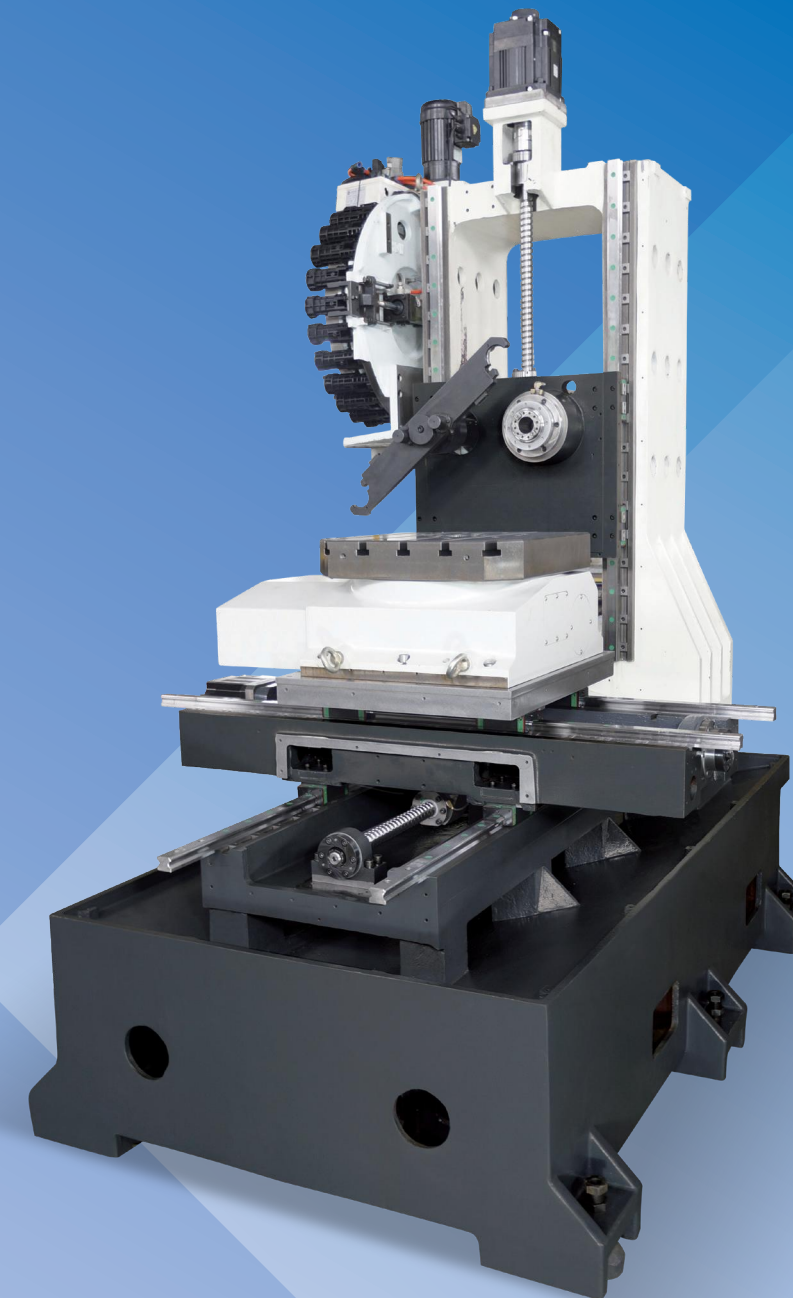
- 1° rotary table
- High-precision, high-rigidity rotary table



- Direct Chip Drop Design for Efficient Chip Evacuation
- Integrated Forklift Pockets for Easy Transportation

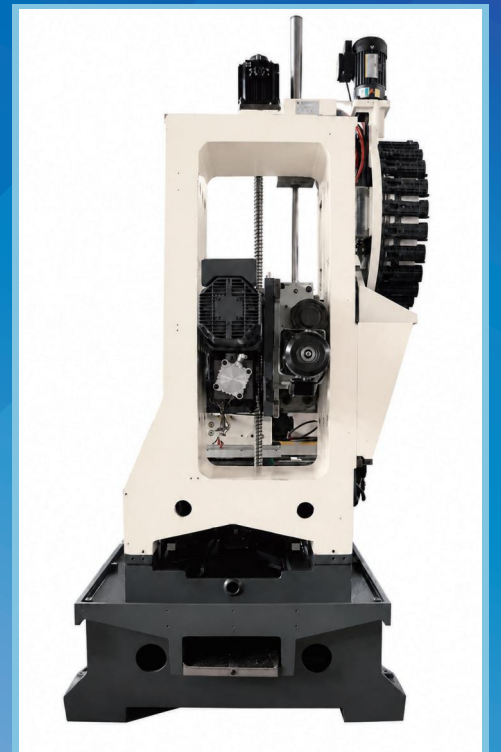


- Rear Stainless-Steel Chip Discharge Chute
- X-axis and Z-axis Oil/Coolant Separator

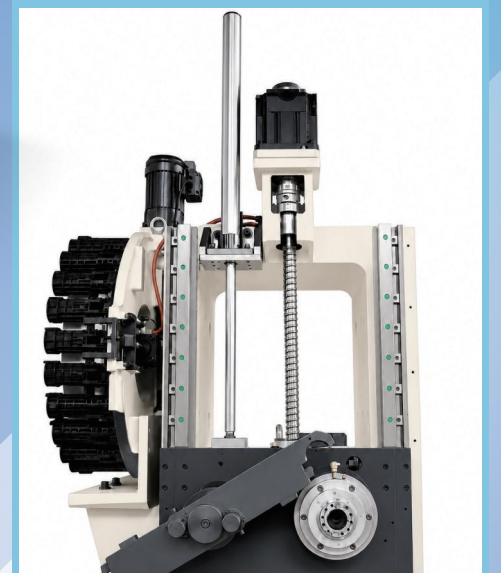


Features

- Built-in oil cooler, hydraulic unit, and transformer for space-saving
- Tool magazine with automatic door and full enclosure to prevent chips from entering the magazine.
- Surround flushing system with stainless steel chip chute for smooth chip evacuation
- Fully enclosed sheet metal guarding
- Rotary control panel for convenient operation
- Hydraulic clamping indexing table for heavy-duty cutting
- Hirth coupling indexing table for high positioning accuracy



- Asymmetrical column support structure integrated with the base for higher rigidity
- Tool magazine side vertically supported by the base, with extended support on the opposite side
- Symmetrical design of the spindle and tool magazine cam box improves Y-axis stability and extends ball screw life



- Integrated spindle head and cam box design
- Center-positioned ball screw design extends service life
- Auxiliary nitrogen counterbalance cylinder balances spindle head load
- Integrated spindle and cam box structure shortens tool arm rotation radius for faster tool changes

Specifications

Item		Model	Unit	HS 500
Travel	X-axis		mm	650
	Y-axis		mm	500
	Z-axis		mm	500
	Distance from spindle nose to table top		mm	137~637
Table	Table size		mm	500 x 500
	Max. loading capacity		kgs	500
	Minimum indexing increment		deg	1
	Positioning accuracy		arc-sec	10
	Repeatability accuracy		arc-sec	2
	Drive method		—	Servo Motor
	T-slot		mm	18h7
Axis Drive	Rapid traverse rate		m/min	48 / 36 / 48
	Cutting feed rate		mm/min	0.001~12000
	X/Y/Z motor power		kw	3.0 / 3.0 / 3.0
Spindle (Direct Drive)	Spindle diameter		mm	126
	Max. spindle speed		rpm	12000
	Spindle taper		—	BT40 x 45°
	Spindle motor power		kw	7.5 / 5.5
ATC Unit	Tool storage capacity		T	24
	Max. tool diameter		mm	80
	Max. tool length		mm	300
	Max. tool weight		kgs	8
	Tool change time (T-T)		sec.	4.6 (T~T)
General	Machine height		mm	2891
	Floor space (Width x Depth)		mm	2180 x 2884
	Machine weight		kgs	7250

■ Specifications are subject to change without prior notice. The actual machine shall prevail.

Standard Equipment

- Mitsubishi Controller
- 12,000 RPM (Direct-Drive Spindle)
- Spindle Oil Cooling & Temperature Control System
- Spindle Air Blowing Device
- 24T Automatic Tool Changer
- Tool Cooling System
- Automatic Lubrication System
- Surrounding Automatic Chip Flushing System
- Full Enclosed Heat-Isolated Electrical Cabinet
- Transformer
- LED Work Light
- Three-Color Tower Light
- Air Gun & Water Gun
- Tool Box
- Full Enclosed Enclosure

Optional Equipment

- Fanuc Controller
- Coolant Through Spindle
- BBT Dual-Contact Spindle
- 30T Arm-Type Tool Magazine
- Tool Length Measurement
- Tool Breakage Detection System
- M Codes
- Air-Conditioning System for Electrical Cabinet
- Workpiece Air Blowing Device
- Oil Mist Collector
- Automatic Door
- Chip Conveyor
- Oil/Water Separator
- Safety Light Curtain
- Linear Scales on Three Axes
- Safety Door Lock

Machining Capacity (HS 500 with Mitsubishi Controller)

Machining Material	Drilling		Tapping		Milling	
	Max.	Min.	Max.	Min.	MRR	Width×Depth×Feed
Aluminum Alloy(A6061)	31	1.65	M24 x 3.0	M2 x 0.4	425 cc/min	63 x 4.5 x 1500
Medium Carbon Steel(S45C)	26	1.65	M22 x 2.5	M2 x 0.4	126 cc/min	63 x 2.0 x 1000
Stainless Steel (SUS430)	26	1.65	M16 x 2.0	M2 x 0.4	113 cc/min	63 x 1.8 x 1000
Cast Iron(FC-25)	31	—	M24 x 3.0	—	202 cc/min	63 x 4.0 x 800



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