



H SERIES VERTICAL MACHINING CENTER

High productive machining

The H series Vertical Machining Center integrates many fine and exclusive features to provide a new level of machining performance. It let you enjoy all the economy and efficiency of excellent machining with a reasonable price.

RIGID CONSTRUCTION

- The Certified MEEHANITE casting Technique are adopted on all major components, offering close grain composition, high tensile strength, as well as long-term wearing resistance.
- All 3 axis square box guide-ways are flame hardened and precision ground.
- All mating surfaces of guide ways are precision scraped and coated with TURCITE-B and antifriction lining material.
- Z-axis counter weight balanced to ensures smooth movement during rapid travel and cutting feed.
- High precision ball screws on all three axes are direct driving from axis servo motors to eliminate backlash.



[Specification](#)

SPECIFICATION

ITEM	VH-650
HEAD STOCK	
Spindle Speed	80~8000 R.P.M.
Spindle Diameter	∅2.5" (∅65mm)
Spindle Taper	CAT-40 (BT-40 Option)
Spindle Motor (/30 min)	15HP
TABLE	
Table Size	31.4"X17.7" (800mmX450mm)
Max. Load	880 lbs (400kgs)
T-Slot No./Pitch	3/4.9" (3/125mm)
T-Slot Wide	0.7" (18mm)
TRAVEL	
X Axis	25.5" (650mm)
Y Axis	19.6" (500mm)
Z Axis	20.4" (520mm)
Spindle Nose to Table	4.7"~25.5" (120~650mm)
Spindle Center to Column Front	21.2" (540mm)
Column Rail Face to Table Center	11.4"~31.1" (290~790mm)
AXIS FEED	

Rapid Feed rate of X,Y Axis	590.5"/min (15000mm/min)
Rapid Feed rate of Z Axis	590.5"/min (15000mm/min)
Cutting Feed rate	196.8"/min (5000mm/min)
ATC	
Max. Tool Diameter	∅3.1" (∅80mm)
Max. Tool Length	11.8" (300mm)
Max. Tool Weight	15.4 lbs (7kgs)
GENERAL INFORMATION	
Machine Weight (approx.)	10978lbs (4990kgs)
Floor Space (WxDxH)	98.7"X85.5"X106.2" (2508X2180X2700mm)
Coolant Tank	200 L
Positioning	±0.0002"/11.8" (±0.005mm/300mm)
Repeatability	±0.00012" (±0.003mm)
Air Pressure Required	85 PSI (6 kg/cm ²)

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

STANDARD ACCESSORIES

- Coolant system
- Rigid tapping
- Remote MPG
- 4th axis wire ready
- High Power Work clamp
- Spindle air blast
- Carousel type ATC (16 Tools)
- Fully enclosed splash guard
- Leveling bolts and pads
- Automatic power off(M30)
- Automatic lubrication system
- Tool box wit adjustment tools
- RS-232 interface
- Floating tool unclamp
- User's program memory 320M
- Fanuc 0i-MB controller
- Two Years controller warranty

OPTIONAL ACCESSORIES

- 10,000/12000 R.P.M. spindle
- Arm type ATC(24 tools)
- Carousel type ATC(20 tools)
- Spindle cooler
- 2-speed gearbox
- Coolant through spindle with filter system
- Coolant through tool holder
- 4th axis rotary table
- Chip conveyor and cart(Chain/Spiral type)
- Memory upgrades
- Heat exchanger for electrical cabinet
- Transformer(15KVA)
- Water Curtain package (Graphite machining)
- CNC controller

Mitsubishi 64SM/65SM
Fanuc 0i-MA/21iM

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