



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	39.3"X17.7" (1000mmX450mm)
Max. Load	990 lbs (450kgs)
T-Slot No./Pitch	3/4.9" (3/125mm)
T-Slot Wide	0.7" (18mm)
TRAVEL	
X Axis	33.4" (850mm)
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	Ø3.1" (Ø80mm)
Max. Tool Length	11.8" (300mm)
Max. Tool Weight	15.4 lbs (7kgs)
GENERAL INFORMATION	
Machine Weight (approx.)	11330lbs (5150kgs)
Floor Space (WxDxH)	98.7"X97.6"X106.2" (2508X2480X2700mm)
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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