

New Hermes VMC - Vertical Machining Center



VANGUARD VMC

Designed for multi-dimensional engraving, mold and die making and EDM electrodes, the Vanguard VMC offers a convenient and affordable alternative to massive, expensive machining center.

Not a high-priced, complicated CNC machine, the VMC's compact size and easy-to-operate software make it ideal for smaller machining operations.

Complete machining package includes software, Pentium® computer and manual joystick control

- Vibration-dampening polymer composite machine base
- Full safety enclosure with chip tray, coolant ready
- DC servo feed motors
- High-speed spindle and 220 V (ac) versions available



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Axis Travel:

- X = 12" (304 mm)

- X with ATC = 6.75" (171 mm)
- Y = 6" (152 mm)
- Z = 9" (228 mm)
- Open height = 9.5" (240 mm)
- Open height with ATC = 8" (202 mm)

High Speed Spindle Machine:

- Z Axis = 8.25" (210 mm)

Work Area:

- Table size: 19.5" x 6.25" (495 mm x 158 mm)
- Table load capacity: 100 lbs. (45 kg)
- Three 3/8" T-slots

Accuracies:

- Repeatability: +/- 0.0002" (0.00508 mm)
- Resolution: 0.000020" (0.000508 mm)
- Lead screw: 0.001"/ft. (0.025 mm/300 mm)

Spindle and Spindle Motor:

- Drive motor: 1hp (746 W)
- Motor type: Brushless DC
- Speed range: 0 - 10,000 rpm
- Spindle nose: R8 taper
- Collet capacity: Up to 1" (25 mm)
- Throat: 6.25" (158 mm)

High Speed Spindle Machine:

- Drive motor: 1hp (746 W)
- Motor type: High-frequency induction
- Speed range: 3,000 - 39,000 rpm
- Spindle nose: ER-16

- Collet capacity: Up to .375" (10 mm)
- Throat: 6.25" (158 mm)

Feed Motors:

- Feed rate: 0.1 - 200 ipm (2 - 5,080 mm/min.)
- DC Servo: 24 v, 50 oz. in. (35 Ncm)
- Closed loop: 2,500 line/rev encoder

Power Requirements:

- U.S.: 120 V (ac) (+10%, -15%), 50-60 Hz, 15A
- Int'l: 230 V (ac), 1Ø (+10%, -15%), 50-60 Hz, 10A
High Speed Spindle Machine:
 ---- 230 V (ac), 1Ø (+5%, -15%), 50-60 Hz, 10A

Air Supply Requirements:

- ATC: 75-90 psi (520-620kPa) *High Speed Spindle Machine:*
 ----15-20 psi (104-130 kPa)
- 1/4" NPT female connection provided

Software/Hardware Specifications:

- Complete design/control software package
- Pentium personal computer with 32MB RAM and monitor, Windows 95 and flatbed color scanner included
- 3-D joystick manual control
- Digital Signal Processor motion control board in PC

Overall Dimensions and Weight:

- 41.5" w x 38" d x 40.1" h (1,055 mm x 965 mm x 1,019 mm)
- Net system weight: Approx. 600 lbs. (273 kg)
- Accessories: Shipping weight 11 lbs. (5 kg)