CLEVELAND
Model: 3VK 3 Axis CNC Rigid Head Vertical Knee Mill

MACHINE FEATURES:
3HP Spindle Motor
R8 Spindle Taper
Programmable 50 to 5,000 rpm spindle speed
Auto Lubrication
Coolant System w/Chip Tray
Specification:
- 3HP Spindle Motor, R8 Spindle Taper
- Programmable 50 to 5,000 rpm spindle speed with HI-LO gear
- Hardened & Ground with turcite-B coating guide way
- Precision ballscrews for high accuracy and long lasting
- FC30 Meehanite Casting main frame with annealed & stress relieved for long term reliability
- Anti rust chrome quill
- Rigid ram with cnc head stock
- Manual knee travel 16"
- Box ways design on Y axis to provide maximum rigidity & stability
- Standard way cover on three axes
- Tool box & Tools
- Precision APEC class7 spindle bearing to ensure spindle run out within 0.0002
- Automatic lubrication system
- Built-in Quartz work light
- Hard limit switch
- 3 axis controller

Table:
- 10” x 50”
- Longitudinal travel (X axis): 31”
- Cross travel: 14 1/2”
- Z axis travel cnc quill: 5” (manual), 4” (cnc)
- Knee travel (manual): 16”
- Quill diameter: 3.375” (86 mm)
- Spindle nose to table top (D): 0.75”-16.75” (20 - 426mm)
- Load capacity: 600 lb
- Spindle taper: R8 (Opt. #30 Taper)
- Spindle Speed (r. p.m.): 70 to 5000 rpm with Hi/Lo gear
- Transmission of spindle & motor: Timing Belt
- Spindle center to column front surface: 6.875” to 27.875’ (175 - 707mm)
- Spindle motor/max torque: 3 HP (Std.) 5 HP (Opt.)
- KVA rating: 4 KVA, 15 amps
- Coolant pump (optional): 1/8 Hp
- Lubrication pump: One shot
- Power requirement: 4 KVA, 3 Phase 208-230 voltage
- Length x Width x Height: 108” x 77” x 92”
- Net Weight: 3,100 lbs. (1420 Kgs)

Standard Accessories Information:
- Tools & box
- 29in/lbs DC motor
- CENTROID 3 AXIS M400S CONTROL
- Leveling bolts & plate
- Draw bar
- Coolant system
- Way cover
- Automatic lube system
- Halogen work light
- Operation manual
- R8 spindle
- USB 2.0, RS 232

Additional Accessories Information:
- Power requirement 4 KVA 3 phase 208V/230Vmax
- Air requirement With opt. power draw bar 90 - 100 psi
- Type of oil for Way oil / Pneumatic oil Mobil Vactra #2 / Air tool oil
- Coolant capacity 7 Gallons

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