CLEVELAND
VERTICAL CNC BED MILL MODEL: E8EC

MACHINE FEATURES:
- Centroid M400 control with 15” LCD
- 10 HP spindle motor NST40/NMTB 40 or CAT40 spindle taper
- ISO 9001 quality assurance
- 6000 rpm spindle speed
- Hardened & ground with Turcite-B coating guide way
- Double nut precision ball screws hardened & ground for high accuracy and long lasting
- FC30 Meehanite casting main frame with annealed & stress relieved for long term reliability
- 100% laser tested for positioning accuracy & repeatability
- Box ways design on Y & Z axis to provide maximum rigidity & stability
- Standard way covers on all three axes
- Tool box & tools
- Coolant system
- Central lubrication system
- Built-in Quartz work light
- Portable hand wheel (opt)
- AUTOMATIC TOOL CHANGER (opt)
- FULL ENCLOSURE (opt)

Specification
Table: .......................................................... 18” x 56.7” (460x1440 mm)
Longitudinal travel: ........................................... 50” (1270 mm)
Cross travel: .................................................. 22” (560 mm)
Vertical travel: ................................................ 24” (610 mm)
Spindle nose to table top (D): .......................... 4.9” to 29” (127 - 737 mm)
Load capacity: .............................................. 2420 lbs (1000 kgs)
Spindle taper: ................................................. NMTB40 or CAT40
Spindle speed: .............................................. 60 to 6000 rpm
Transmission of spindle & motor: ..................... Belts
Spindle center to column front surface: ............ 23.6” (600 mm)

Feed Rate
Rapid feed rate: ........................................... X/Y/Z: 150 ipm
Cutting feed rate: ........................................ 1 to 120 ipm

Motor
Spindle motor/max torque: ......................... 10 HP / 7.5 kW
Servo motors on XYZ: ............................. 1kW - AC
Coolant pump: ........................................ 1/8 Hp
Lubrication pump: .................................... 150 W
Power requirement: .................................... 17 KVA, 3 Phase 208V to 230V (Max)

Automatic Tool Changer (Optional)
No. of tools: ............................................. Optional
Max tool diameter: ..................................... 3.5” (90 mm)
Max tool weight: ....................................... 15 lbs (7 kgs)

Dimension & Weight
Length x Width x Height: ........................... 143.7” x 93.7” x 95.5”
Net weight: ............................................. 8030 lbs (3650 kgs)
Standard Accessories
Tools & box  Leveling bolts & plate  RS-232 interface
Operation manual  15" color LCD  Splash guard
Auto lube system  Halogen work light  120 GB solid state hard drive
USB 2.0 port  Coolant system  Shop floor programming/Conversational

Optional Machine Accessories
CK-105  52pcs Clamping Kit slot: 0.71" (18mm) stud: 5/8-11
CP-MIST  Mist Coolant System
TG-CNC  Table Guard-E5/E6/E8 EC&FC
TRAN-17KVA  Transformer: 17KVA (440-480V)
UG-MT10-15  Upgrade Motor from 10 to 15HP
ATC-16  16 Tools - ATC Umbrella with software
C40RK-45  Retention Knob Cat40, 45degree 20pcs
Enclosure  Full Enclosure
UG-RPM80  Upgrade from 6,000 to 8,000 RPM
Riser Block  10" riser block for Engine block job shop
UG-Servo-1  Upgrade from DC 29in/lbs to 40in/lbs
VISE-6  6" Angle Vise W/ Swivel Base (Import)

Optional Software Accessories
10620  Compression tapping
10610  User definable Macros and sub programs [M98 & G65]
10851  Cutter compensation
10360  4th axis software
10630  Unlimited part program size
10730  Intercon off-line conversational program (for your desktop PC)
10810  Rigid tapping [G74 & G 84] (includes 10620)
10850  Coordinate system rotation (CSR)
10625  Scaling and mirroring [G50 & G51]
10814  DXF in, CAD drawing input software
10660  BCD tool change output
10740  Engraving software

Digitzing & Probing
10405  DP-4 probing package w/ CSR (10850)
12486  DP-7 probing package w/ CSR (10850)
10770  2D & 3D digitizing software (requires 10405)
10220  TT-1; Tool touch off kit
12468  TT-2; Tool touch off kit
10772  Tool room package (10405 & 10220 & 10600 work coordinate)

Manual Pulse Generators (MPG)
11069  100 Step MPG

Additional Accessories Information
Power requirement: ........................................... 17 KVA 3 phase 208V to 230V (Max)
Air requirement: ................................................ With opt. power draw bar 90 - 100 psi
Type of oil for way oil / oil chiller / pneumatic oil: Mobel Vectra #2/ Shell Tellus 32/ Air tool oil
Coolant capacity: ........................................... 7 Gallons

**WE RESERVE THE RIGHT TO CHANGE DESIGN, COLOR, SPECIFICATIONS, OR PRICE WITHOUT NOTICE**

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