# CLEVELAND

**VERTICAL CNC BED MILL MODEL: BM-430H**

## MACHINE FEATURES:
- Centroid M400 control with 15” LCD
- 7.5 HP spindle motor, CAT40 spindle taper
- Programmable 50 to 8,000 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: | 13.7” x 50” (350x1270 mm) |
| Longitudinal travel: | 31.5” (800 mm) |
| Cross travel: | 15.7” (400 mm) |
| Vertical travel: | 17.7” (450 mm) |
| Spindle nose to table top (D): | 4.7” to 22.4” (120-570 mm) |
| Load capacity: | 880 lbs (400 kgs) |
| Spindle taper: | CAT40 |
| Spindle speed: | 60 to 8000 rpm |
| Transmission of spindle & motor: | Belts |
| Spindle center to column front surface: | 17.7” (450 mm) |

### Feed Rate
- Rapid feed rate: X/Y/Z: 250 ipm AC
- Cutting feed rate: 1 to 120 ipm

### Motor
- Spindle motor: 7.5 HP / 5.5 kW
- Feed motors on XYZ: 1 kW - AC
- Coolant pump: 1/8 Hp
- Lubrication pump: 150 W
- Power requirement: 15 KVA, 3 Phase 208V to 230V (Max)

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

### Dimension & Weight
- Length x Width x Height: 110.6” x 94.5” x 96.8”
- Net Weight: 5500 lbs (2500 kgs)
Standard Accessories
- Tools & box
- Operation manual
- Auto lube system
- USB 2.0 port

Options
- RS-232 interface
- 15" color LCD
- Halogen work light
- Coolant system

Optional Machine Accessories
- CK-001: 52pcs Clamping Kit
- CP-MIST: Mist Coolant System
- ENCLOSURE: Full enclosure
- 16ATC: 16 T Magazine - Umbrella with software
- C40RK-45: Retention Knob Cat40, 45degree 20pcs
- TG-CNC: Table Guard
- TRAN-17KVA: Transformer: 17KVA (440~480V)
- 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

Digitizing & 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: .............................. 15 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: ---- Mobil 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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