

# 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	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-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)
WISE-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

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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)

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11069	100 Step MPG
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## 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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