

CLEVELAND

VERTICAL CNC BED MILL MODEL: BM-630H

MACHINE FEATURES:

- Centroid M400 control with 15" LCD
- 15 HP spindle motor, CAT40 spindle taper
- 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: | 24" x73" (610x1854 mm) |
| Longitudinal travel: | 59" (1500 mm) |
| Cross travel: | 33.5" (850 mm) |
| Vertical travel: | 28" (710 mm) |
| Spindle nose to table top (D): | 4.7" to 28.3" (120-720 mm) |
| Load capacity: | 3300 lbs (1500 kgs) |
| Spindle taper: | BT40 or CAT40 |
| Spindle speed: | 60 to 8000 rpm |
| Transmission of spindle & motor: | Belts |
| Spindle center to column front surface: | 25.5" (650 mm) |
| T slot: | 0.7*5*2.7" mm |

Feed Rate

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

Motor

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|---------------------------------|------------------------------------|
| Spindle motor/max torque: | 15 HP |
| Feed motors on XYZ: | 2 kW - AC Servo |
| Coolant pump: | 1/8 Hp |
| Lubrication pump:..... | 150 W |
| Power requirement: | 20 KVA, 3 Phase 208V to 230V (Max) |

Automatic Tool Changer

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|--------------------------|----------------|
| No. of tools: | OPT |
| Max tool diameter: | 3.5" (90 mm) |
| Max tool weight: | 15 lbs (7 kgs) |

Dimension & Weight

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|--------------------------------|----------------------|
| Length x Width x Height: | 175" x 105" x 115" |
| Net weight: | 11000 lbs (5000 kgs) |

Standard Accessories

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|------------------|------------------------|---------------------------------------|
| 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

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|-------------|---|
| CK-105 | 52pcs Clamping Kit |
| CP-MIST | Mist Coolant System |
| 16ATC | 16 T magazine - Umbrella with Software |
| ENCLOSURE | Full Enclosure |
| SEMI-ENCLOU | Semi Enclosure |
| CHIP | Chip Auger |
| C40RK-45 | Retention Knob Cat40, 45degree 20pcs |
| TG-CNC | Table Guard |
| TRAN-17KVA | Transformer: 28KVA (440~480V) |
| Riser Block | 10" riser block for Engine block job shop |
| WISE-6 | 6" Angle Vise W/ Swivel Base (Import) |

Optional Software Accessories

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| 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: 20 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: 16 Gallons

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

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