

CLEVELAND

VERTICAL CNC BED MILL MODEL: BM-660H

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:	29.9" x 72" (760x1830 mm)
Longitudinal travel:	66.9" (1700 mm)
Cross travel:	33.4" (850 mm)
Vertical travel:	27.5" (700 mm)
Spindle nose to table top (D):	4.7" to 33.4" (120-850 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:	0.62*3*2.36" mm

Feed Rate

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

Motor

Spindle motor/max torque:	15 HP / 10 kW
Feed motors on XYZ:	3 kW - AC Servo
Coolant pump:	1/8 HP
Lubrication pump:	150 W
Power requirement:	30 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:	194.7" x 125.7" x 118.5"
Net weight:	18,700 lbs (8300 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
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

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
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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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