

CLEVELAND

VERTICAL MACHINING CENTER MODEL: BM-780H

MACHINE FEATURES:

- Centroid M400 control with 15" LCD
- 20 tools ATC armless
- 20 HP spindle motor, BT40 or 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 axis to provide maximum rigidity & stability
- Telescopic steel way cover on three axes
- Tool box & tools
- Coolant system and air blast system
- Central lubrication system
- Built-in Quartz work light
- Rigid tapping (opt)
- **Portable hand wheel (opt)**



Specification

Table:	32" x 108"
Longitudinal travel:	98"
Cross travel:	33"
Vertical travel:	27.5"
Spindle nose to table top (D):	3.9" - 31.4"
Load capacity:	4400 lbs (2000 kgs)
Spindle taper:	BT40 or CAT40
Spindle speed:	8000 rpm
Transmission of spindle & motor:	Belts
Spindle center to column front surface:	35.4"

Feed Rate

Rapid feed rate:	400 ipm AC
Cutting feed rate:	100 ipm AC

Motor

Spindle motor:	20 HP
Feed motors on XYZ:	3 kW - AC
Coolant pump:	1/4 Hp
Lubrication pump:	150 W
Power requirement:	30 KVA, 3 Phase 208V to 230V (Max)

Automatic Tool Changer

No. of tools:	20
Max tool diameter:	3.54" (90 mm)
Max tool weight:	15.4 lbs (7 kgs)

Dimension & Weight

Length x Width x Height:	91" x 185" x 102" (package size)
Floor size:	194" x 185" x 118"
Net weight:	22,320 lbs (10000 kgs)

Standard Accessories

Tools & box	Leveling bolts & plate	RS-232 interface
Operation manual	Splash guard	Air blast, coolant flush gun
Table guard	Halogen work light	120 GB solid state hard drive
USB 2.0 port	Auto lube/ 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
WISE-6	6" Angle Vise W/ Swivel Base (Import)
C40RK-45	Retention Knob Cat40, 45degree 20pcs
ENCLOSURE	Full Enclosure
SEMI-ENCLOU	Semi Enclosure
CHIP	Chip Auger

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: 30 KVA 3 phase 208V to 230V (Max)
Air requirement: With opt. power draw bar 90 - 100 psi
Type of oil for way oil / pneumatic oil: Mobil Vectra #2/ Shell Tellus 32/ Air tool oil
Coolant capacity: 26 Gallons

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

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