

# CLEVELAND

## VERTICAL MACHINING CENTER MODEL: BM-760H

### 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)
- AUTOMATIC TOOL CHANGER (opt.)
- FULL ENCLOSURE (opt.)



### Specification

Table: .....	32" x 86"
Longitudinal travel: .....	78.5"
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 165" x 102" (package size)
Floor size: .....	138" x 110" x 118"
Net weight: .....	16,500 lbs (7,500 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	60GB 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
<u>Digitizing &amp; Probing</u>	
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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