

# CLEVELAND

## VERTICAL MACHINING CENTER MODEL: BM-880H

### MACHINE FEATURES:

- **Centroid control with 15" LCD**
- **20 tools ATC armless**
- **20 HP spindle motor, CAT50 spindle taper**
- **6,000 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
- Auto lubrication system
- Built-in work lamp
- Rigid tapping (opt)
- **Portable hand wheel (opt)**



### **Specification**

Table: .....	32" x 126"
Longitudinal travel: .....	118"
Cross travel: .....	35.4"
Vertical travel: .....	29.5"
Load capacity: .....	4850 lbs
T-slot: .....	0.7" x 7 x 3.93"

### **Spindle Head**

Spindle taper: .....	CAT50
Spindle speed: .....	6000 rpm
Feed rate: .....	393 ipm
Ballscrew (X.Y-axis) / (Z-axis) : .....	D3.14" / D2.48"
Rapid travel (X.Y-axis) / (Z-axis): .....	393" ipm / 787" ipm

### **Motor**

Spindle motor: .....	20 HP
Feed motors on XYZ: .....	AC 3kW
Coolant pump: .....	1 HP
Lubrication pump:.....	150 W
Power requirement: .....	35 KVA, 3 Phase 208V to 230V (Max)

### **Automatic Tool Changer**

No. of tools: .....	20
Max tool diameter: .....	3.54"
Max tool weight: .....	15.4 lbs

### **Dimension & Weight**

Length x width x height: .....	240" x 89" x 100"
	94" x 88" x 59"
	70" x 88" x 43"
Net weight: .....	32180 lbs / 2425 lbs / 1763 lbs

### Standard Accessories

Work lamp - 110V	Coolant pump	Auto lubrication system -110V
Chip tray + tank	X/Y/Z axis telescopic cover	Heat exchanger for electrical cabinet
Tool box	<b>Column side rear splash guard</b>	20 tools ATC armless

### Optional Machine Accessories

ARM24T	Arm ATC 24T
ARM40T	Arm ATC 40T
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

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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: ..... 35 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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