

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	Column side rear splash guard	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

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: 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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