

# CLEVELAND

## VERTICAL MACHINING CENTER MODEL: E422

### MACHINE FEATURES:

- Centroid M400 control with 15" LCD
- 16 tools ATC armless
- 10 HP spindle motor, BT40 or CAT40 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 and air blast system
- Central lubrication system
- Built-in Quartz work light
- Rigid tapping (opt)
- **Portable hand wheel (opt)**
- **FULL ENCLOSURE (opt)**



### Specification

Table: .....	18.8" x 48.8" (460x1240 mm)
Longitudinal travel: .....	41.7" (1060 mm)
Cross travel: .....	22" (560 mm)
Vertical travel: .....	24" (610 mm)
Spindle nose to table top (D): .....	4.8" to 28.9" (123-733 mm)
Load capacity: .....	2000 lbs (909 kgs)
Spindle taper: .....	BT40 or CAT40
Spindle speed: .....	6000 rpm
Transmission of spindle & motor: .....	Belts
Spindle center to column front surface: .....	23.6" (600 mm)

### Feed Rate

Rapid feed rate: .....	X/Y/Z: 320 ipm AC
Cutting feed rate: .....	160 ipm AC

### Motor

Spindle motor: .....	10 HP
Feed motors on XYZ: .....	1kW-AC
Coolant pump: .....	1/4 Hp
Lubrication pump: .....	150 W
Power requirement: .....	17 KVA, 3 Phase 208V to 230V (Max)

### Automatic Tool Changer

No. of tools: .....	16
Max. tool diameter: .....	3.54" (90 mm)
Max. tool weight: .....	15.4 lbs (7 kgs)

### Dimension & Weight

Length x Width x Height: .....	98.4" x 90" x 90"
Floor size: .....	127.2" x 89.6" x 95.5"
Net weight: .....	9460 lbs (4300 kgs)

### Standard Accessories

Tools & box	Leveling bolts & plate	Auto lubrication / Coolant system
Operation manual	Full metal enclosure	Air blast, coolant flush gun
Auto lube system	Halogen work light	120 GB solid state hard drive
USB 2.0 port	RS-232 interface	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
TRAN-17KVA	Transformer: 17KVA (440~480V)
UG-MT10-15	Upgrade Motor from 10 to 15 HP
UG-RPM80	Upgrade from 6,000 to 8,000 RPM
WISE-6	6" Angle Vise W/ Swivel Base (Import)
C40RK-45	Retention Knob Cat40, 45degree 20pcs
FE-E422	Full Enclosure-E422
CHIP-AG-E3	Chip Auger (only available w/ full enclosure)E320/E422/M320

### 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)

11069	100 Step MPG
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### Additional Accessories Information

Power requirement: .....	14 KVA 3 phase 208V to 230V (Max)
Air requirement: .....	90 - 100 psi
Type of oil for way oil / oil chiller / 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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