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
Operation manual
Auto lube system
USB 2.0 port
Leveling bolts & plate
Full metal enclosure
Halogen work light
RS-232 interface
Auto lubrication / Coolant system
Air blast, coolant flush gun
120 GB solid state hard drive
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
VISE-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
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

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**