CLEVELAND

MODEL: E320 VERTICAL MACHINING CENTER

MACHINE FEATURES:
10HP Spindle Motor, BT40 or CAT40 Spindle Taper
16 tools ATC Armless
6,000 rpm spindle speed
Hardened & Ground
Turcite-B coating guide way
Table Guard

- CENTROID M400 CNC CONTROL WITH 15” LCD
- 16 tools ATC Armless
- 10HP Spindle Motor, BT40 or CAT40 Spindle Taper
- 6,000 rpm spindle speed
- Hardened & Ground with turcite-B coating guide way
- C3 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
- 4 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.)
### Specification:

**Table:**
16” x 41” (405 x 1040mm)

**Longitudinal travel (X axis):**
33.9” (860mm)

**Cross travel (Y axis):**
20” (510mm)

**Vertical travel (Z axis):**
24” (610mm)

**Spindle nose to table top (D):**
4.8”-28.8” (122-732mm)

**Load capacity:**
1500 lb (680 Kg)

**Spindle taper:**
BT40 or CAT40

**Spindle Speed (r.p.m.):**
6000 rpm

**Transmission of spindle & motor:**
Belts

**Spindle center to column front surface:**
21.7” (550 mm)

**Feed Rate:**
- **Rapid feed rate:** X/Y/Z: 180 ipm DC, 360ipm AC
- **Cutting feed rate:** 1-150 ipm

**Motor:**
- **Spindle motor/max torque:** 7.5HP/38NM
- **Feed motors on XYZ:** 40in-lbs DC, or AC 1 Kw
- **Lubrication pump:** 150W
- **Power requirement:** 14 KVA, 3 Phase 208-230 voltage

**Automatic Tool Changer:**
- **No. of tools:** 16
- **Max. tool diameter:** 3.5” (90 mm)
- **Max. tool length:**
- **Max. tool weight:** 15 lb (7 Kg)
- **Length x Width x Height:** 98.4” x 85” x 90”
- **Net Weight:** 6,820 lbs. (3100 Kgs)

### Standard Accessories:

<table>
<thead>
<tr>
<th>Tools &amp; box</th>
<th>Table guarding</th>
<th>Shop floor programming/Conversational</th>
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<tbody>
<tr>
<td>Leveling bolts &amp; plate</td>
<td>Auto lube system</td>
<td>RS-232 Interface</td>
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<tr>
<td>Air blast, coolant flush gun</td>
<td>Coolant system</td>
<td>USB 2.0</td>
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<tr>
<td>Operation manual</td>
<td>Halogen work light</td>
<td>128 MB solid state hard drive</td>
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### Additional Accessories information:

<table>
<thead>
<tr>
<th>Power requirement:</th>
<th>14 KVA 3 phase 208V/230Vmax</th>
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<tr>
<td>Air requirement:</td>
<td>90 - 100 psi</td>
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<tr>
<td>Type of oil for Way oil/Oil chiller/Pneumatic oil:</td>
<td>Mobil Vactra #2/Shell Tellus 32/Air tool oil</td>
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<tr>
<td>Coolant capacity:</td>
<td>26 Gallons</td>
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