### CLEVELAND VERTICAL MACHINING CENTER MODEL: L1060

- Centroid M400 control with 15” LCD
- Armless type 20 tool ATC
- 15 HP spindle motor, CAT40 / BT40 spindle taper
- 8,000 rpm spindle speed with spindle oil cooler
- Linear guide way on three axes
- 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
- Telescopic steel way covers on all 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>
<thead>
<tr>
<th>X / Y / Z travel:</th>
<th>41.7” / 24” / 26.7”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance from spindle to column:</td>
<td>26.4”</td>
</tr>
<tr>
<td>Distance from spindle to table top:</td>
<td>5.5” ~ 32.2”</td>
</tr>
</tbody>
</table>

### Working Table

<table>
<thead>
<tr>
<th>Size (X / Y):</th>
<th>49.5” / 20”</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-slot:</td>
<td>0.7” x 5 x 3.9”</td>
</tr>
<tr>
<td>Load capacity:</td>
<td>1540 lbs</td>
</tr>
</tbody>
</table>

### Spindle

<table>
<thead>
<tr>
<th>Motor:</th>
<th>15 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed:</td>
<td>8,000 rpm</td>
</tr>
<tr>
<td>Taper:</td>
<td>CAT40 / BT40</td>
</tr>
</tbody>
</table>

### Feed Rate

<table>
<thead>
<tr>
<th>Rapid X / Y / Z:</th>
<th>640 / 640 / 480 ipm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting:</td>
<td>300 ipm</td>
</tr>
</tbody>
</table>

### ATC

<table>
<thead>
<tr>
<th>Tool magazine capacity:</th>
<th>Armless 20 tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. tool dia. / adj. pocket empty:</td>
<td>Ø 3.1” / Ø 5.9”</td>
</tr>
<tr>
<td>Max. tool length:</td>
<td>11.8”</td>
</tr>
<tr>
<td>Max. tool weight:</td>
<td>15.4 lbs</td>
</tr>
</tbody>
</table>

### General

<table>
<thead>
<tr>
<th>Power requirement:</th>
<th>32 KVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumatic tank requirement (min.):</td>
<td>5 ~ 8 (5) kg/cm^2</td>
</tr>
<tr>
<td>Coolant tank capacity (pump):</td>
<td>63.4 gal (1 hp)</td>
</tr>
</tbody>
</table>

### Dimension & Weight

<table>
<thead>
<tr>
<th>L X W X H:</th>
<th>144” x 106” x 116”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight:</td>
<td>14,300 lbs</td>
</tr>
</tbody>
</table>
**Standard Accessories**
- Booster (unclamp) cylinder
- Auto lube
- Air gun & spindle air blast
- Full enclosure
- Coolant system
- Halogen work light
- Telescoping way cover
- Power chain
- Operation manual
- Tools & box
- Spindle coolant unit
- Encoder set
- Screw type chip auger
- Electric cabinet set w/ bracket

**Optional Machine Accessories**
- CK-105 52pcs Clamping Kit slot 0.71" (18mm); stud: 5/8-11
- CP-MIST Mist Coolant System
- UG-RPM100 Upgrade to 10000 rpm (need to be finished in factory)
- UG-MT15 Upgrade to high torque Y and Delta Motor
- VISE-6 6" Angle Vise W/ Swivel Base (Import)
- C40RK-45 Retention Knob Cat40, 45degree 20pcs
- UG-MT15-20 Upgrade Motor from 15 to 20 HP
- CP-SP Coolant Through Spindle

**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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