MACHINE FEATURES:

- Centroid M400 control with 15” LCD
- 10 HP spindle motor, CAT40 spindle taper
- 8,000 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 & Z axis to provide maximum rigidity & stability
- Standard way covers on all three axes
- Tool box & tools
- Coolant system
- Central lubrication system
- Built-in Quartz work light
- Portable hand wheel (opt)
- AUTOMATIC TOOL CHANGER (opt.)
- FULL ENCLOSURE (opt.)

Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table</td>
<td>16.5” x 63” (420x1600 mm)</td>
</tr>
<tr>
<td>Longitudinal travel</td>
<td>51” (1300 mm)</td>
</tr>
<tr>
<td>Cross travel</td>
<td>24.5” (630 mm)</td>
</tr>
<tr>
<td>Vertical travel</td>
<td>24” (610 mm)</td>
</tr>
<tr>
<td>Spindle nose to table top (D)</td>
<td>5” to 30” (120-750 mm)</td>
</tr>
<tr>
<td>Load capacity</td>
<td>2000 lbs (980 kgs)</td>
</tr>
<tr>
<td>Spindle taper</td>
<td>NMTB40 or CAT40</td>
</tr>
<tr>
<td>Spindle speed</td>
<td>60 to 8000 rpm</td>
</tr>
<tr>
<td>Transmission of spindle &amp; motor</td>
<td>Belts</td>
</tr>
<tr>
<td>Spindle center to column front surface</td>
<td>25.5” (660 mm)</td>
</tr>
</tbody>
</table>

Feed Rate

- Rapid feed rate: X/Y/Z: 250 ipm AC
- Cutting feed rate: 1 to 120 ipm

Motor

- Spindle motor: 10 HP / 7.5 kW
- Feed motors on XYZ: 2 kW - AC Servo
- Coolant pump: 1/8 Hp
- Lubrication pump: 150 W
- Power requirement: 15 KVA, 3 Phase 208V to 230V (Max)

Automatic Tool Changer

- No. of tools: OPT
- Max tool diameter: 3.5” (90 mm)
- Max tool weight: 15 lbs (7 kgs)

Dimension & Weight

- Length x Width x Height: 165” x 84” x 105”
- Net weight: 8360 lbs (3800 kgs)
**Standard Accessories**

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tools &amp; box</td>
<td>Leveling bolts &amp; plate</td>
<td>RS-232 interface</td>
</tr>
<tr>
<td>Operation manual</td>
<td>15&quot; color LCD</td>
<td>Splash guard</td>
</tr>
<tr>
<td>Auto lube system</td>
<td>Halogen work light</td>
<td>120 GB solid state hard drive</td>
</tr>
<tr>
<td>USB 2.0 port</td>
<td>Coolant system</td>
<td>Shop floor programming/Conversational</td>
</tr>
</tbody>
</table>

**Optional Machine Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CK-001</td>
<td>52pcs Clamping Kit</td>
</tr>
<tr>
<td>CP-MIST</td>
<td>Mist Coolant System</td>
</tr>
<tr>
<td>UP-15H</td>
<td>Upgrade spindle motor to 15 Hp</td>
</tr>
<tr>
<td>ENCLOSURE</td>
<td>Full Enclosure</td>
</tr>
<tr>
<td>SEMI-ENCLOU</td>
<td>Semi Enclosure</td>
</tr>
<tr>
<td>CHIP</td>
<td>Chip Auger</td>
</tr>
<tr>
<td>16ATC</td>
<td>16 T magazine Umbrella with software</td>
</tr>
<tr>
<td>C40RK-45</td>
<td>Retention Knob Cat40, 45degree 20pcs</td>
</tr>
<tr>
<td>TG-CNC</td>
<td>Table Guard</td>
</tr>
<tr>
<td>TRAN-17</td>
<td>Transformer: 28KVA (440~480V)</td>
</tr>
<tr>
<td>VISE-6</td>
<td>6&quot; Angle Vise W/ Swivel Base (Import)</td>
</tr>
</tbody>
</table>

**Optional Software Accessories**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10620</td>
<td>Compression tapping</td>
</tr>
<tr>
<td>10610</td>
<td>User definable Macros and sub programs [M98 &amp; G65]</td>
</tr>
<tr>
<td>10851</td>
<td>Cutter compensation</td>
</tr>
<tr>
<td>10360</td>
<td>4th axis software</td>
</tr>
<tr>
<td>10630</td>
<td>Unlimited part program size</td>
</tr>
<tr>
<td>10730</td>
<td>Intercon off-line conversational program (for your desktop PC)</td>
</tr>
<tr>
<td>10810</td>
<td>Rigid tapping [G74 &amp; G 84] (includes 10620)</td>
</tr>
<tr>
<td>10850</td>
<td>Coordinate system rotation (CSR)</td>
</tr>
<tr>
<td>10625</td>
<td>Scaling and mirroring [G50 &amp; G51]</td>
</tr>
<tr>
<td>10814</td>
<td>DXF in, CAD drawing input software</td>
</tr>
<tr>
<td>10660</td>
<td>BCD tool change output</td>
</tr>
<tr>
<td>10740</td>
<td>Engraving software</td>
</tr>
<tr>
<td>10405</td>
<td>DP-4 probing package w/ CSR (10850)</td>
</tr>
<tr>
<td>12486</td>
<td>DP-7 probing package w/ CSR (10850)</td>
</tr>
<tr>
<td>10770</td>
<td>2D &amp; 3D digitizing software (requires 10405)</td>
</tr>
<tr>
<td>10220</td>
<td>TT-1; Tool touch off kit</td>
</tr>
<tr>
<td>12468</td>
<td>TT-2; Tool touch off kit</td>
</tr>
<tr>
<td>10772</td>
<td>Tool room package (10405 &amp; 10220 &amp; 10600 work coordinate)</td>
</tr>
</tbody>
</table>

**Manual Pulse Generators (MPG)**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11069</td>
<td>100 Step MPG</td>
</tr>
</tbody>
</table>

**Additional Accessories Information**

- Power requirement: ........................................ 20 KVA 3 phase 208V to 230V (Max)
- Air requirement: ......................................... With opt. power draw bar 90 - 100 psi
- Type of oil for way oil / oil chiller / pneumatic oil: ---- Mobil Vectra #2/ Shell Tellus 32/ Air tool oil
- Coolant capacity: ........................................ 7 Gallons

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