### TR SERIES SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>TR-200</th>
<th>TR-320</th>
<th>TR-600</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>X Travel</strong></td>
<td>14&quot;</td>
<td>20&quot;</td>
<td>30&quot;</td>
</tr>
<tr>
<td><strong>Y Travel</strong></td>
<td>14&quot;</td>
<td>16&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td><strong>Z Travel</strong></td>
<td>20&quot;</td>
<td>22&quot;</td>
<td>25&quot;</td>
</tr>
<tr>
<td><strong>C Travel</strong></td>
<td>360°</td>
<td>360°</td>
<td>360°</td>
</tr>
<tr>
<td><strong>A Travel</strong></td>
<td>0 - 110°</td>
<td>0 - 120°</td>
<td>0 - 120°</td>
</tr>
<tr>
<td><strong>Table Load (Evenly Distributed)</strong></td>
<td>4,000 lbs.</td>
<td>6,000 lbs.</td>
<td>8,000 lbs.</td>
</tr>
<tr>
<td><strong>Platter Size</strong></td>
<td>8&quot; ø</td>
<td>12&quot; ø</td>
<td>24&quot; ø</td>
</tr>
<tr>
<td><strong>Maximum Workpiece Diameter</strong></td>
<td>10.5&quot;</td>
<td>23.62&quot;</td>
<td>32.67&quot;</td>
</tr>
<tr>
<td><strong>Maximum Workpiece Height</strong></td>
<td>9&quot;</td>
<td>12&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td><strong>Table Top to Floor</strong></td>
<td>28&quot;</td>
<td>30&quot;</td>
<td>28&quot;</td>
</tr>
</tbody>
</table>

#### MACHINE CAPACITY

- Spindle Speed (RPM): 60 - 12,000 RPM (15K, 21K, 30K Opt)
- Tool Type/Taper: BIG PLUS CAT-40 (BT-40)
- Spindle Nose to Table (Max - Min): 22" - 4" 26" - 4" 29" - 4"
- Spindle Center to Column: 14" 18" 26"

#### SPINDLE

- Motor HP (Peak): 20 HP 30 HP 30 HP
- Spindle Speed (RPM): 60 - 12,000 RPM (15K, 21K, 30K Opt)
- Spindle Torque: 95 ft/lbs. @ 350 RPM

### ATC

- Tool Storage Capacity: 24-Station High Speed Arm Type (40 tool)
- Tool Change Time: 1.5 Seconds
- Max. Tool Diameter (full): 3.2"
- Max. Tool Diameter (adjacent empty): 5.9"
- Max. Tool Weight: 15.4 lbs.
- Max. Tool Length: 13"

### PERFORMANCE

- Positioning Accuracy X, Y, Z: +/- 0.0002"
- Positioning Repeatability X, Y, Z: +/- 0.0001"
- Resolution: 0.0001"
- Tilting Accuracy (A Axis): 30 Arc/Sec
- Rotary Accuracy (C Axis): 15 Arc/Sec
- Rapid Traverse: 1,200 X, Y, Z
- Cutting Feed Rate: 0.001 - 1,200 IPM
- Servo Type: AC Digital Brushless

### GENERAL INFO

- Air Pressure Requirements: 90 PSI - 5 CFM
- Coolant Capacity: 90 Gallons
- Coolant Flow: 9 GPM
- Door Open Width: 28" 35" 48"
- Power Requirements: 40 AMP 380-500 VAC 3 Phase (220 VAC optional)
- Shipping Dimensions* (WxDxH): 83"x76"x72" 93"x86"x76" 127"x87"x87"
- Operating Dimensions (WxDxH): 83"x76"x85" 93"x86"x89" 127"x104"x110"
- Machine Weight: 8,500 lbs. 10,500 lbs. 12,500 lbs.

* Requires some disassembly to meet these minimum dimensions. Contact factory for more information.

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