<table>
<thead>
<tr>
<th>TC-V SERIES SPECIFICATIONS</th>
<th>TC-40V</th>
<th>TC-80V</th>
<th>TC-120V</th>
<th>TC-160V</th>
<th>TC-240V</th>
<th>TC-320V</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Travel</td>
<td>40&quot;</td>
<td>80&quot;</td>
<td>120&quot;</td>
<td>160&quot;</td>
<td>240&quot;</td>
<td>320&quot;</td>
</tr>
<tr>
<td>Y Travel</td>
<td>26&quot;</td>
<td>24&quot; (32&quot;)</td>
<td>24&quot; (32&quot;)</td>
<td>24&quot; (32&quot;)</td>
<td>24&quot; (32&quot;)</td>
<td>24&quot; (32&quot;)</td>
</tr>
<tr>
<td>Z Travel</td>
<td>28&quot;</td>
<td>24&quot;</td>
<td>24&quot;</td>
<td>24&quot;</td>
<td>24&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>Table Load (Evenly Distributed)</td>
<td>8,000 lbs.</td>
<td>8,000 lbs.</td>
<td>10,000 lbs.</td>
<td>10,000 lbs.</td>
<td>14,000 lbs.</td>
<td>18,000 lbs.</td>
</tr>
<tr>
<td>Table Size</td>
<td>60&quot; x 24&quot;</td>
<td>80&quot; x 24&quot;</td>
<td>120&quot; x 24&quot;</td>
<td>160&quot; X 24&quot;</td>
<td>240&quot; X 24&quot;</td>
<td>320&quot; x 24&quot;</td>
</tr>
<tr>
<td>T-Slots (No./Width)</td>
<td>5 / .787&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table Top to Floor</td>
<td>38&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SPINDLE

- **Motor HP (Peak):** 30.0 HP (40.0 HP Optional)
- **Spindle Speed (RPM):** 60 - 8,500 RPM (6K, 10K, 12K, 15K Optional)
- **Spindle Torque (max):** 155 ft/lbs @ 350 RPM (204 ft/lbs w/opt 40 HP motor; 800 ft/lbs w/opt 40 HP motor and gearbox)
- **Tool Type/Taper:** CAT 40    (CAT 50 Optional)    (BT Option)
- **Spindle Nose to Table (Max - Min):** 30" - 2" 28" - 4" 28" - 4" 28" - 4" 28" - 4" 28" - 4"
- **Spindle Center to Column:** 28" 24" (32") 24" (32") 24" (32") 24" (32") 24" (32")

### ATC

- **Tool Storage Capacity:** 24 Station Arm Type   (30 and 40 tool optional)
- **Tool Change Time:** 3.0 seconds   (4 sec 50 taper)
- **Tool Change Time Chip to Chip:** 4.0 seconds   (6 sec 50 taper)
- **Max. Tool Diameter (full):** 3.20"   (5.90" 50 taper)
- **Max. Tool Dia. (adjacent empty):** 6.25"   (9.50" 50 taper)
- **Max. Tool Weight:** 15.4 lbs.   (30 lbs 50 taper)
- **Max. Tool Length:** 13"   (16" 50 taper)
- **Positioning Accuracy:** +/- 0.0002"   +/- 0.0002"   +/- 0.0002"   +/- 0.0002"   +/- 0.0003"   +/- 0.0003"
- **Positioning Repeatability:** +/- 0.0001"   +/- 0.00001"   +/- 0.00001"   +/- 0.00001"   +/- 0.000015"   +/- 0.000015"
- **X Axis Drive Type:** Ballscrew Ballscrew Ballscrew Ballscrew Rack & Pinion Rack & Pinion
- **Rapid Traverse:** 1,000 X, Y, Z
- **Cutting Feed Rate:** .001 - 600 IPM
- **Servo Type:** AC Digital Brushless
- **Axis Thrust (Peak):** 4,955 lbs. X, Y, Z

### PERFORMANCE

- **Air Pressure Requirements:** 90 PSI - 5 CFM
- **Coolant Capacity:** 100 Gallons
- **Coolant Flow:** 5 GPM
- **Servo Type:** AC Digital Brushless
- **Axis Thrust (Peak):** 4,955 lbs. X, Y, Z
- **Cutting Feed Rate:** .001 - 600 IPM
- **Spindle Speed (RPM):** 60 - 8,500 RPM (6K, 10K, 12K, 15K Optional)
- **Spindle Torque (max):** 155 ft/lbs @ 350 RPM (204 ft/lbs w/opt 40 HP motor; 800 ft/lbs w/opt 40 HP motor and gearbox)
- **Tool Type/Taper:** CAT 40    (CAT 50 Optional)    (BT Option)
- **Spindle Nose to Table (Max - Min):** 30" - 2" 28" - 4" 28" - 4" 28" - 4" 28" - 4" 28" - 4"
- **Spindle Center to Column:** 28" 24" (32") 24" (32") 24" (32") 24" (32") 24" (32")

### GENERAL INFO

- **Power Requirements:** 40 AMP 400 - 500 VAC 3 PHASE (80 amp)
- **Operating Dimensions (WxDxH):** 160"x138"x118" 200"x138"x118" 245"x138"x118" 310"x138"x118" 375"x138"x118" 440"x138"x118"
- **Machine Weight:** 30,000 lbs. 32,000 lbs. 34,000 lbs. 40,000 lbs. 46,000 lbs. 50,000 lbs.

---

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

© 2019 Fryer Machine Systems, Inc. rev 042519 Specifications subject to change without prior notice.