The Fryer CM Series is the perfect tool for toolroom, job shop and secondary operations. Built on a solid cast iron platform and using high precision ballscrews, spindle and ATC, the CM can hold the demanding tolerances that industry requires. Programming is accomplished with industry standard G code or Siemens advanced ‘Shop Mill’ programming. Equipped with an impressive list of standard features the CM Series is by far the best compact milling machine available today.

Specifications

- 15” x 10” x 15” travels
- 7.5 HP – 8,000 RPM
- 8 tool ATC
The CM series is ideal for many industries. Toolrooms like the small size and simple conversational programming. Job shops like the easy set-up keys and the ability to move the machine easily to where it is needed. Mold shops like the 30,000 RPM spindle option and graphite protection package. See how the CM series can be customized to your application.

Specifications

- 20” x 13” x 20” travels
- 7.5 HP – 8,000 RPM
- 10 tool ATC
Rugged Construction

- Precision ground ballscrews
- Cast iron construction
- Steel cutting capacity
- Precision linear ways

40 Taper Spindle

- 8,000, 10,000, 12,000 or 15,000 RPM
- Built-in coolant nozzles
- 7.5 HP or 15 HP spindle motors
- CAT or BT-40
- Thin spindle coolant
Automatic Tool Changer

- 8 or 10 Tool - 40 taper
- 20 tool arm type available
- Fast 5 second change time
- Large 3.5” maximum tool diameter

Pallet Jack

- Move easily to where a spindle is needed
- Park next to larger machine as 2nd Op
- Easy to level and set-up
5 Axis Rotary Table

- 6” compact trunnion table
- Full 5 Axis or 3+2 operation
- Perfect for multi-sided machining or complex 5 Axis parts

High Speed Spindle

- Liquid cooled with refrigeration
- 30 taper, 21,000, 30,000 RPM continuous duty
- Air/ oil lubrication
Siemens 828 CNC

The advanced Siemens CNC is the perfect control for toolroom and production alike. It includes G code and conversational programming as well as advanced graphics. Animated set-up screens, USB, high speed machining and tool life management make it the most versatile CNC available.

- Conversational programming
- G code programming
- Solid model 3D graphics
- High speed machining
- Fast set-up cycles
- USB file transfer
- PC control simulator (available)

Fanuc Oi CNC

The industry standard Fanuc Oi CNC is the perfect control for production use. The Fanuc CNC control system is used on millions of machines worldwide. Featuring USB file transfer, high speed machining and tool life management. It also features available full 4th axis contouring and electronic probing making it the most versatile CNC available.

- Fanuc reliability
- G code programming
- High speed machining
- Fast set-up cycles
- USB file transfer
- Tool life management
# CM SERIES SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specifications</th>
<th>CM-15</th>
<th>CM-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Travel</td>
<td>15&quot;</td>
<td>20&quot;</td>
</tr>
<tr>
<td>Y Travel</td>
<td>10&quot;</td>
<td>13&quot;</td>
</tr>
<tr>
<td>Z Travel</td>
<td>15&quot;</td>
<td>20&quot;</td>
</tr>
<tr>
<td>Ballscrew Size</td>
<td>0.630&quot;</td>
<td>1.00&quot;</td>
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<tr>
<td>Table Load (Evenly Distributed)</td>
<td>350 lbs.</td>
<td>450 lbs.</td>
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<tr>
<td>Table Size</td>
<td>10&quot; x 32&quot;</td>
<td>12&quot; x 24&quot;</td>
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<tr>
<td>T-Slots (No./Width)</td>
<td>3 / 0.630&quot;</td>
<td>3 / 0.630&quot;</td>
</tr>
<tr>
<td>Table Top to Floor</td>
<td>32&quot;</td>
<td>30&quot;</td>
</tr>
</tbody>
</table>

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

**SPINDLE**

- Motor HP (Peak): 7.5 HP
- Spindle Speed (RPM): 60 - 8,000 RPM (10K, 12K, 15K, 21K, 30K optional)
- Spindle Torque (max): 35 ft/lbs. @ 350 RPM
- Tool Type/Taper: CAT 40 (BT option)
- Spindle Nose to Table (Max to Min): 4" - 19" | 3" - 23"
- Spindle Center to Column: 11" | 15"

**ATC**

- Tool Storage Capacity: 8 Station | 10 Station (20 optional)
- Tool Change Time: 5 Seconds
- Max. Tool Diameter (full): 3.5"
- Max. Tool Weight: 10.4 lbs.
- Max. Tool Length: 8"
- Positioning Accuracy: +/- 0.0002"
- Positioning Repeatability: +/- 0.0001"
- Resolution: 0.0001"
- Rapid Traverse: 500 IPM (1,200 optional)
- Cutting Feed Rate: 0.001 - 400 IPM (1,200 optional)
- Servo Type: AC Digital Brushless
- Axis Thrust (Peak): 2,200 lbs. X, Y, Z

**PERFORMANCE**

- Air Pressure Requirements: 90 PSI; 3 CFM
- Coolant Capacity: 10 Gallons
- Coolant Flow: 2 Gal/Min
- Power Requirements: 40 AMP; 200-250 VAC 3 PHASE (380-500 optional)
- Door Open Width: 23" | 30"
- Shipping Dimensions* (WxDxH): 55" x 52" x 71" | 65" x 80" x 80"
- Operating Dimensions (WxDxH): 55" x 52" x 80" | 65" x 80" x 80"
- Machine Weight: 2,350 lbs. | 4,300 lbs.

**GENERAL INFO**

- Made in USA

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Specifications subject to change without prior notice.

<table>
<thead>
<tr>
<th>CM-15</th>
<th>CM-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Width (A)</td>
<td>55&quot;</td>
</tr>
<tr>
<td>Overall Depth (B)</td>
<td>52&quot;</td>
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<tr>
<td>Maximum Machine Height (C)</td>
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<tr>
<td>Door Width (D)</td>
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<tr>
<td>Console Height (E)</td>
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<tr>
<td>Electrical Cabinet Swing (F)</td>
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