Design Your Own Centering Bells
Available in Toolbox™ Design Software

- Precisely manufactured with state-of-the-art metalworking equipment in-house by OptiPro’s team of machinists
- Made from one solid piece of 100% Tungsten Carbide for added integrity
- High quality centering bells minimize any damage risk to the clamped optic
- Available in 12mm and 25mm shaft sizes with a 6-8 week delivery
- Centering bells are customizable for specific job requirements

Tungsten Carbide Centering Bells
Achieve Exceptional Centering Results

- Achieved Results
- Quality Assurance
- Unmatched Performance
- Customer Satisfaction
Exceptional precision and repeatability.

Efficient centering of precision optics can noticeably increase your bottom line. Watch parts go out the door faster with the exceptional precision, production, and repeatability of the PRO 160C CNC optical centering machine. Save time and money with fast job setups, optimal cycle times, and quick turnaround times. Accomplish fast and precise centering of spheres and aspheres or perform truncations, facets, steps, bevels, tapers, and freeform edge shaping. Whether your job requires precision centering of glass, ceramics, or IR materials, the advanced capabilities of the PRO 160C will help your company prosper.

High Performance Machines
Engineered for precision and repeatability

- Rigid granite base for excellent stability and consistent part-to-part accuracy
- High quality machine components including quick-change high speed HSK63F tool spindles and tungsten carbide centering bells
- Tungsten carbide centering bells made by OptiPro with precision to minimize any damage risk to the surface of the clamped optic

Intelligent Software Technology
C Series Software: User-friendly yet highly capable

- Clear and simple interface guides the operator through all aspects of optical centering
- For parts that have multiple geometric features, more than one operation can be completed in a single cycle
- 3D animation preview of the part program displays the wheels and part geometry as you build the program and detects any potential collisions

Capabilities

○ Standard ○ Available — N/A

PRO 160C: CNC centering machine

- Standard Features:
  - Center Thickness Compensation
- Optional Features:
  - Non-Rotational Correction • Truncation Grinding

Specifications*

PRO 160C

<table>
<thead>
<tr>
<th>Feature</th>
<th>Standard</th>
<th>Available</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workpiece (Maximum Diameter)</td>
<td>Up to 200 mm (7.87&quot;)</td>
<td>up to 70mm (2.76&quot;)</td>
<td></td>
</tr>
<tr>
<td>Work Spindle</td>
<td>200 rpm, 0-200 rpm, 25 mm (Standard and Custom Bells Available)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tool Spindle</td>
<td>Quick Change HSK63F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tool Holder Style</td>
<td>25 mm (8.66&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Tool Diameter</td>
<td>220 mm (8.66&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Tool Weight</td>
<td>13 kg (29 lbs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Tool Spindle Speed</td>
<td>1,000 - 12,000 rpm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spindle Power</td>
<td>7kW (9.5hp)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travels</td>
<td>95 mm (3.74&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X1 - Axis Travel</td>
<td>1,278 mm (50.3&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X2 - Axis Travel</td>
<td>1,278 mm (50.3&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1 - Axis Travel</td>
<td>360° Continuous</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C2 - Axis Travel</td>
<td>360° Continuous</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repeatable Positioning Accuracy</td>
<td>+/- 0.001 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication Interface</td>
<td>Ethernet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Facility Requirements</td>
<td>480V +/- 10%, 58A</td>
<td>10HP, 4-Cii clean dry air</td>
<td></td>
</tr>
</tbody>
</table>

* Specifications subject to change. Contact OptiPro for the latest specifications.
Design Your Own Centering Bells
Available in Toolbox™ Design Software

- Precisely manufactured with state-of-the-art metalworking equipment in-house by OptiPro’s team of machinists
- Made from one solid piece of 100% Tungsten Carbide for added integrity
- High quality centering bells minimize any damage risk to the clamped optic
- Available in 12mm and 25mm shaft sizes with a 6-8 week delivery
- Centering bells are customizable for specific job requirements

CNC Optical Centering Machine

• Developed with the highest precision to ensure accuracy and reliability
• Designed to work seamlessly with other OptiPro systems for complete control
• Robust and durable, built to withstand harsh manufacturing environments

Tungsten Carbide Centering Bells
Achieve Exceptional Centering Results

- Tungsten Carbide Centering Bells
- Achieve Exceptional Centering Results
- Unparalleled Dedication to Customer Success
- Sales
  - Developing Partnerships
- Service
  - Reinforcing Relationships
- Support
  - Ensuring Excellence

Unparalleled Dedication to Customer Success

Sales
Developing Partnerships

Service
Reinforcing Relationships

Support
Ensuring Excellence

www.optipro.com/the-optipro-difference

OptiPro Systems
6368 Dean Parkway
Ontario, NY 14519 USA
585.265.0160
sales@optipro.com
www.optipro.com