PRO 160C
Precision Optics Centering

- CNC Centering of Spheres & Aspheres
- Exceptional Precision and Repeatability
- Easily Perform Multiple Operations
- Advanced Optical Centering Technology

SAVE TIME
- Automatic bell clamping technology minimizes setup time
- Complete multiple operations in a single cycle, freeing technician to run several machines simultaneously
- Quick change high speed tool spindles reduces setup time

MAKE MONEY
- Efficient centering of spheres and aspheres from 5-200 mm
- Laser alignment with transmission for optical glasses or ceramics and optional reflection alignment for UV materials
- Capable of truncations, facets, steps, bevels, tapers, and freeform edge shaping

QUALITY & RELIABILITY
- Highest quality machine components
- Centering bells manufactured with care by OptiPro
- Rigid granite base designed for excellent stability ensures highest quality and control

EASY-TO-USE SOFTWARE
- Interactive 3D simulation of part program with collision detection
- Edge Detection feature for quickly applying desired bevels
- Center thickness compensation ensures accurate bevels & sag flats

Grinding Polishing UltraSmooth Finishing Measuring Advanced Process Development Training
# Specifications*  PRO 160C

## Workpiece
- Optimal Diameter Range
- Maximum Workpiece Height

- Up to 200 mm (7.87”)
- Up to 70 mm (2.76”)

## Work Spindle
- Spindle Speed
- Hydro-Expansion Chuck
- C-Axis Position and Hold
- Precise Clamping Pressure

- 0 - 200 rpm
- 25 mm (Standard & Custom Bells Available)
- Standard
- Up to 1,000 N

## Tool Spindle
- Tool Holder Style
- Maximum Tool Diameter
- Maximum Tool Weight
- Tool Spindle Speed
- Spindle Power

- Quick Change HSK63F
- 220 mm (8.66”)
- 6 kg (13.2 lbs.)
- 1,000 - 12,000 rpm
- 7 kW (9.5 hp)

## Travels
- X1 - Axis Travel
- X2 - Axis Travel
- Z1 - Axis Travel
- Z2 - Axis Travel
- Z3 - Axis Travel
- C1 - Axis Travel
- C2 - Axis Travel
- Repeatable Positioning Accuracy

- 95 mm (3.74”)
- 95 mm (3.74”)
- 180 mm (7.08”)
- 180 mm (7.08”)
- 85 mm (3.35”)
- 360° Continuous
- +/- 0.001 mm

## Communication Interface
- Ethernet
- USB

- Standard
- Standard

## Machine Dimensions
- Width
- Depth
- Height
- Weight

- 1,278 mm (50.3”)
- 2,032 mm (80”)
- 2,282 mm (89.8”)
- 2,494 kg (5,500 lbs.)

## Facility Requirements
- Electrical
- Air Supply

- 480V Wye +/- 10%, 58A
- 100PSI, 5 CFM clean dry air

## Laser Alignment with Transmission
- Optional

## Laser Alignment with Reflection
- Optional

## Center Thickness Compensation
- Standard

## Truncation Grinding
- Optional

* Specifications subject to change. Contact OptiPro for the latest specifications.