



# CNC Spherical Polishing Machines



PRO 80P



PRO 160P



PRO 160P+

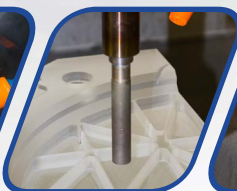


ePX 200

*Innovative Machines for Precision Optics and Technical Ceramics*



CNC Optical  
Grinding Machines



Ultrasonic  
Machining Centers



Optical  
Centering Machines



CNC Spherical  
Polishing Machines



CNC Asphere/Freeform  
Polishing Machines



Planetary  
Polishing Machines



Non-Contact  
Metrology Solutions

# High speed spherical lens and dome polishing

Improve your precision, capability and predictability along with your bottom line. With OptiPro's CNC spherical optics polishing machines, you can reduce cycle times, increase quality, and take on high volume production jobs with confidence. Experience repeatability for plano and spherical optics production and the power to polish hemispherical domes. The PRO 80P, PRO 160P, PRO 160P+ and ePX 200 can handle a variety of materials including optical glasses, optical ceramics, and metals. Larger workpieces up to 200mm in diameter? No problem. We have the right polishing solution for you.



## High Performance Machines

Engineered for precision and repeatability



Robust and precise tool and work spindles with hydraulic expansion chucks. Dual lower spindles for in-process tool truing (PRO 160P+)



Rigid granite base for excellent stability (PRO Series machines)



Rigid cast iron base for excellent stability (ePX 200)



Robust and precise tool and work spindles with hydraulic expansion chucks. More spindle torque for high speed polishing of large optics

## Intelligent Software Technology

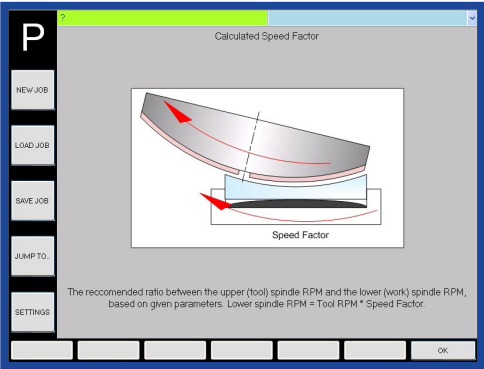
P Series Software: User-friendly yet highly capable



- Clear and simple interface uses graphics and simple input handles to guide the user through all aspects of lens polishing

- Process tree progression allows multiple processes within the same lens to be chained together and run in series to maximize polishing efficiency

- Correction screens have easy to follow images for applying corrections that are tailored to opticians.



## Capabilities

● Standard ○ Available — N/A

### PRO 80P: CNC Spherical Polisher

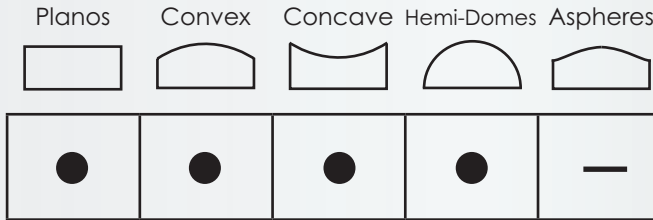


#### Standard Features:

- Tool and Work Spindles with Hydro-Expansion Chucks
- On-board tool truing • Self-Contained Slurry System
- Modular platform

#### Optional Features:

- Tool Height Measurement Station • Slurry through the Tool
- Tooling Design Software



#### Spherical part size limit



### PRO 160P: CNC Spherical Polisher

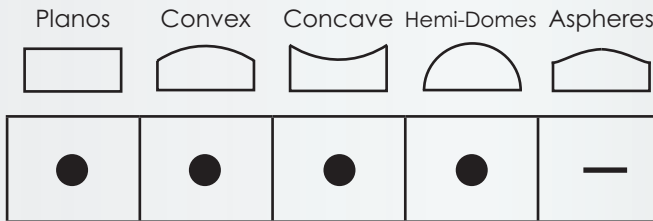


#### Standard Features:

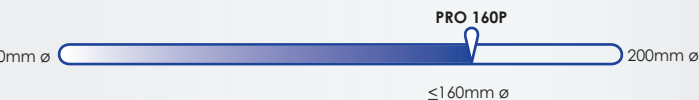
- Tool and Work Spindles with Hydro-Expansion Chucks
- On-board tool truing • Self-Contained Slurry System
- Modular platform

#### Optional Features:

- Tool Height Measurement Station • Slurry through the Tool
- Tooling Design Software



#### Spherical part size limit



### PRO 160P+: CNC Spherical Polisher

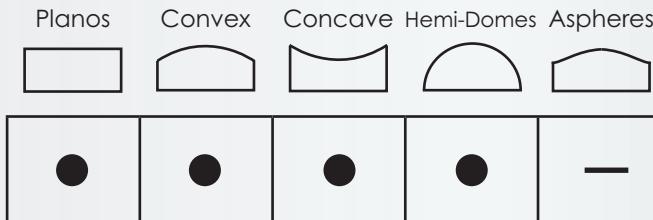


#### Standard Features:

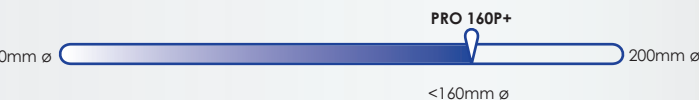
- Tool and Work Spindles with Hydro-Expansion Chucks
- In-Process Tool Truing with Dual Lower Spindles
- Self-Contained Slurry System • Modular platform

#### Optional Features:

- Tool Height Measurement Station • Slurry through the Tool
- Tooling Design Software



#### Spherical part size limit



### ePX 200: CNC Spherical Polisher

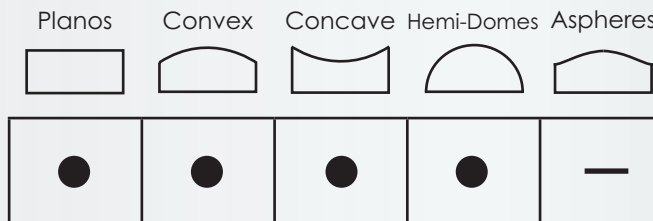


#### Standard Features:

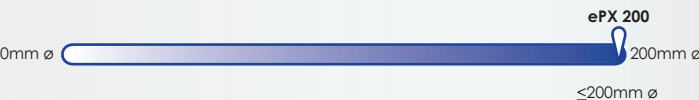
- Tool and Work Spindles with Hydro-Expansion Chucks
- More Spindle Torque for Large Optics • On-board tool truing
- Slurry System

#### Optional Features:

- Tool Height Measurement Station • Slurry through the Tool
- Tooling Design Software



#### Spherical part size limit





# Specifications\*

	PRO 80P	PRO 160P/160P+	ePX 200
<b>Workpiece</b> Optimal Diameter Range Maximum Weight	Up to 80 mm (3.15") 15 kg (33 lbs.)	Up to 160 mm (6.3") 30 kg (66 lbs.)	Up to 200 mm (7.87") 100 kg (220 lbs.)
<b>Work Spindle**</b> Spindle Speed, Power Hydro-Expansion Chuck Work Chuck	1 - 1,500 rpm, 1.3kW Standard Pneumatic Bladder	0 - 1,500 rpm, 1.8kW Standard Pneumatic Bladder	25 - 2,000 rpm, 5kW Standard Pneumatic Bladder
<b>Tool Spindle</b> Maximum Tool Diameter Spindle Power (Peak) Hydro-Expansion Chuck Polishing Tool	160 mm (6.3") 50 - 1,500 rpm, 1.3kW Standard Aluminum or Steel Body w/ Polyurethane Foil	300 mm (11.8") 0 - 1,500 rpm, 1.8kW Standard Aluminum or Steel Body w/ Polyurethane Foil	400 mm (15.7") 25 - 2,000 rpm, 5kW Standard Aluminum or Steel Body w/ Polyurethane Foil
<b>Travels</b> X - Axis Travel Y - Axis Travel Z - Axis Travel B - Axis Travel	170 mm (6.7") 3 mm (.12") 140 mm (5.5") -5° to 65°	420 mm (16.5") 6 mm (.24") 220 mm (8.7") -5° to 65°	468 mm (18.4") 210 mm (8.3") 200 mm (7.87") -90° to 90°
<b>Communication Interface</b> Ethernet USB	Standard Standard	Standard Standard	Standard Standard
<b>Machine Dimensions</b> Width Depth Height Weight	1,000 mm (39") 1,500 mm (59") 2,440 mm (96") 1,600 kg (3,500 lbs.)	1,400 mm (55") 1,730 mm (68") 2,440 mm (96") 1,950 kg (4,300 lbs.)	2,110 mm (83") 2,515 mm (99") 2,700 mm (106") 3,400 kg (7,500 lbs.)
<b>Facility Requirements</b> Electrical Air Supply	480V +/- 5%, 24A 100PSI, 5 CFM clean dry air	480V +/- 10%, 24A 100PSI, 5 CFM clean dry air	480V +/- 5%, 49A 100PSI, 5 CFM clean air

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

\*\* PRO 160P+ has dual lower spindles (Work Spindle and Truing Spindle), both of which have the same specifications.

## Unparalleled Dedication to Customer Success

### Sales

Developing Partnerships

### Service

Reinforcing Relationships

### Support

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