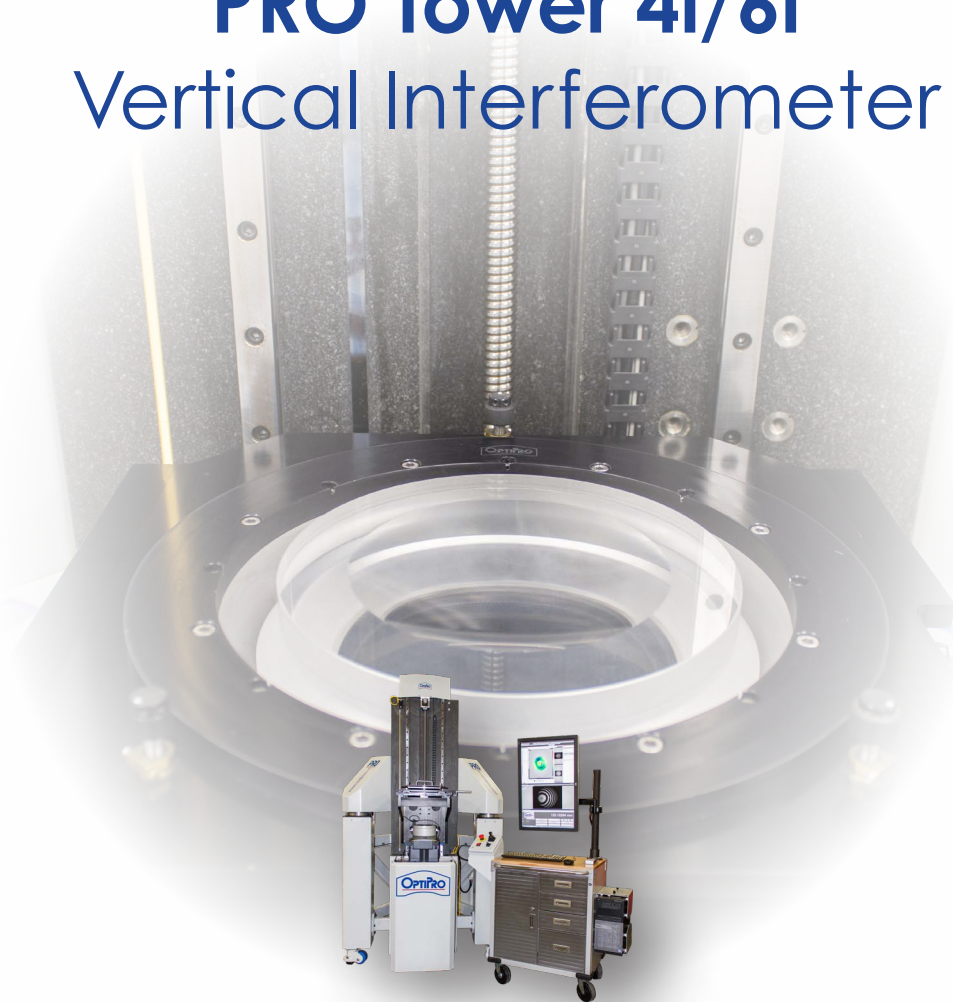




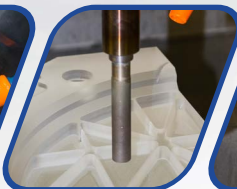
## PRO Tower 4i/6i Vertical Interferometer



*Innovative Machines for Precision Optics and Technical Ceramics*



CNC Optical  
Grinding Machines



Ultrasonic  
Machining Centers



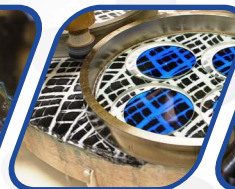
Optical  
Centering Machines



CNC Spherical  
Polishing Machines



CNC Asphere/Freeform  
Polishing Machines



Planetary  
Polishing Machines



Non-Contact  
Metrology Solutions

# Enhanced Wavefront and Radius Measurement

Maximize the performance of your laser interferometer with the PRO Tower. PRO Tower is a highly stable platform that transforms your existing 4" or 6" horizontal interferometer into an upward looking configuration. PRO Tower works perfectly with interferometer models from all the major brands, including Zygo, 4D Technology, and more. PRO Tower can also be equipped with a new 4" (PRO Tower 4i) or 6" (PRO Tower 6i) interferometer if you don't currently own an interferometer or are looking to add capacity. Experience enhanced measurement speed, safety, and reliability that comes with vertical interferometry by adding PRO Tower to your manufacturing or metrology lab.

Part Apertures Up To

300

mm can be measured as well as radius up to 1200 mm

Incredible Stability

4,000

lbs. machine with granite base for accurate measurements, even on shop floor

Precision Positioning

10

nanometer resolution when moving Z-axis to radius distance measured

# High Performance Equipment

Engineered for precision and repeatability

Lab grade granite core with precision rails for accurate movement

Highly accurate configuration allows optics to rest in a "nest" for stress-free measurements.

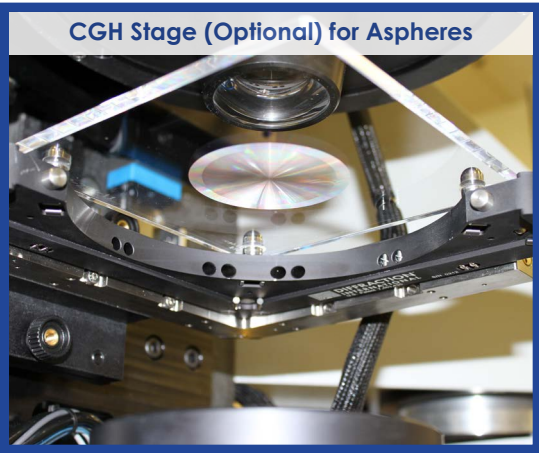
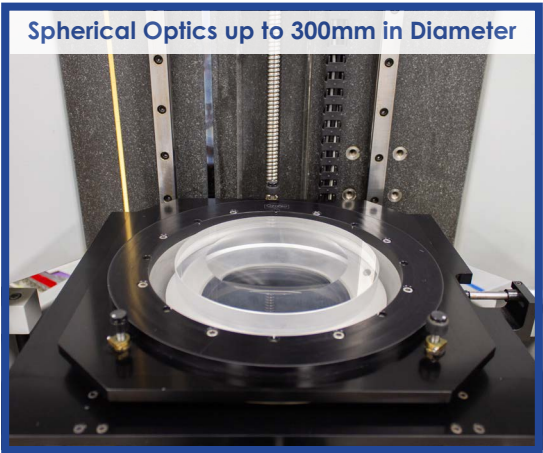
Tripod base with three active isolation pads for stability in a production environment



30 inch high resolution LCD screen with live display of interferograms

Easy access to interferometer for service to minimize any production losses

# PRO Tower Applications:



# Capabilities

● Standard   ○ Available   — N/A

## PRO Tower: Vertical Interferometer

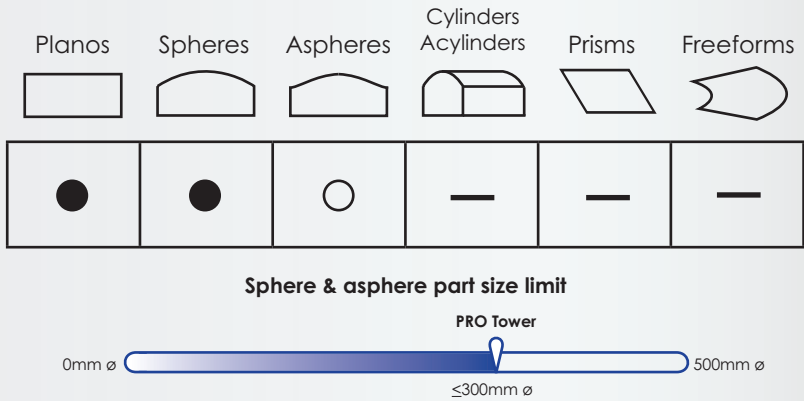


### Standard Features:

- 127 TPI tip tilt stage
- Lab grade granite core with precision rails
- Servo driven Z axis with variable speed joystick
- Available with an upward looking 6" or 4" Zygo Verifier

### Optional Features:

- CGH stage for measuring aspheres



# Vertical Interferometer Advantages

## Upgrade Your Interferometer

	PRO Tower Vertical Interferometer Compatible with 4" or 6" interferometer	Interferometer Horizontal-Orientation Without PRO Tower upgrade
Surface power measurement	✓	
Surface irregularity measurement	✓	✓
High precision radius measurement	✓	
Asphere measurements with CGH	✓	✓
High speed production metrology	✓	
Stable granite base for shop floor use	✓	
Minimal floor space requirement	✓	
Optics measured in relaxed state	✓	
Minimal handling of workpiece and transmission sphere	✓	
Safe changing of transmission spheres	✓	
Programmable Z-axis stage	✓	

**High Speed Production Metrology:** For jobs with high volume quantities, the operator can easily set up the interferometer to null fringes using a master, then place workpieces in and out of the nest of the PRO Tower to quickly measure power and irregularity.

**Minimal Floor Space Requirement:** PRO Tower's compact vertical configuration saves valuable floor space, compared to horizontal interferometer set up which typically requires an 8 foot isolation table.

**Minimal Handling of Workpiece and Transmission Sphere:** Once the transmission sphere and workpiece are placed in the PRO Tower, they no longer need to be touched. Measurements are performed by programming the Z-axis stage to move up and down, or by manually jogging the Z-axis stage.

**Safe Changing of Transmission Spheres:** Ergonomically designed with objective at waist-level, making is easy and safe to change out expensive transmission spheres.

**Programmable Z-Axis Stage:** By entering the radius of the spherical optic and with the simple click of a button, Z-Axis automatically moves up and down to the distance of the radius entered with 10 nanometer resolution, making it easy to measure radius and irregularity.



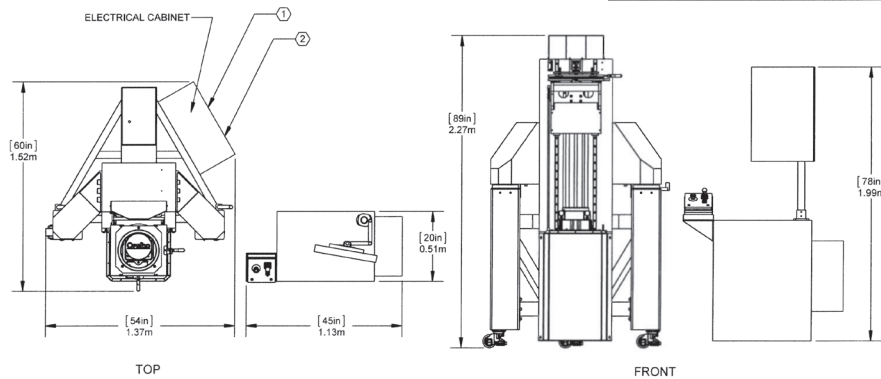
# Specifications\*

PRO Tower 4i/6i	
Working Diameter Range Objective Size Resolution of Encoder Wavefront Measurement Accuracy	1-300 mm (0.04"-11.8") Up to 203.2 mm (8", Custom) 0.0001 mm (0.000004") $\lambda/20$ (dependent on objective accuracy)
<b>Z-Axis Stage Travel</b> 6" Zygo Verifier 4" Zygo Verifier	1,000 mm (39.4") 1,250 mm (49.2")
<b>Cross Slide Travel</b> X-Axis Y-Axis	50.8 mm (2") 50.8 mm (2")
<b>Machine Dimensions</b> Width Depth Height Weight	1,700 mm (66.9") 1,600 mm (63") 2,200 mm (86.6") 1,814 kg (4,000 lbs.)

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

Minimum Shipping Height	89in
Compressed Air	100psi @ 5CFM <sup>1</sup>
Weight (Approx.)	4000 lbs.
Voltage	1Φ, 120V ±10%
Frequency	60Hz
Current Draw (FLA)	15A

- ① - POWER INPUT  
② - AIR INPUT



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