



OptoTech

# OWI 150 XLC

Interferometer for form measurement of cylindrical and plano optical components



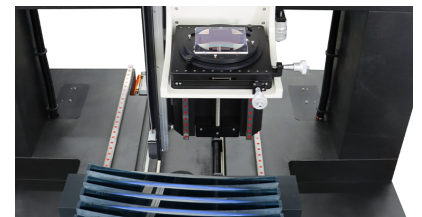
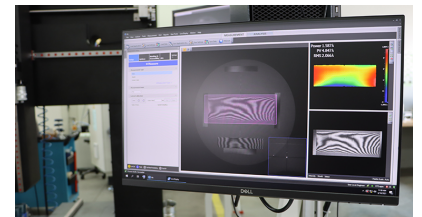
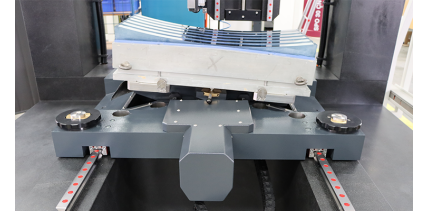
High precision Fizeau workshop interferometer OWI 150 XLC for testing of cylindrical and plano surfaces. Optimized kinematics and a large working range make this measuring machine an indispensable tool for the production of high-end optics.



# OptoTech

## Technical data

	OWI 150 XLC
Application	Interferometer for form measurement of cylindrical and plano optical components
Measuring Range Radius (depending on CGH)	100 mm - 1600 mm
Travel B	-15 ° - 15 °
Travel X	0 mm - 1700 mm
Travel Y	0 mm - 1300 mm
Travel Z	0 mm - 1000 mm
Amount of Axes	4 (X, Y, Z, B)
Available interferometer modules	Zygo VeriFire 5"
Note Air Pressure	At least 35 l/m
Interface	6" Bayonet-Interface
Measuring Accuracy	$\lambda/20$ (depending on reference flat)
Air Pressure Requirement	6 bar
Power Requirement (others on request)	4 kVA
Dimensions	Width: 2600 mm, Height: 2900 mm, Depth: 3250 mm; incl. control panel
Weight (approx.)	8000 Kg
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.





## Highlights

- Optimized for use at the production level
- Measurement setup made of natural hard stone in portal construction, passive air-bearing, level-regulated
- Inverse mounting of the interferometer module on the X-axis
- X / Y / Z / B axis adjustable by motor. Movable via joystick. Measuring positions can be saved
- For CX and CV cylinders and plano optics
- Collimated wavefront will be split in 1 dimension by using a computer generated hologram (CGH) to create a cylindrical wavefront
- Including integrated PC workstation
- Software by OptoTech in combination with Zygo MX
- Fully automatic measurement of individual cylinder segments

## System advantages

- Extended movement range, ideal for large cylindrical and plano optics
- Measuring scope covers precise fringe analysis of large optics
- Extended axis offer an unparalleled large working range at maximum measuring accuracy
- CGH can be used for multiple components
- Measuring positions and settings can be saved in the system
- Optimized kinematics enables fast positioning
- Robust damping system for stable handling and optimized for use at the production level
- Interferometer can be loaded from above using a crane

## Options

- Various Zygo 6" Interferometer Modules, e.g. Zygo VeriFire 6"
- Various Zygo 6" Reference Spheres, e.g. Zygo TF 6" Plano  $\lambda/20$
- Various workpiece receptions