



OptoTech

# OWI 150 XT 1500

Workshop interferometer for form measuring of spherical and aspherical optical components

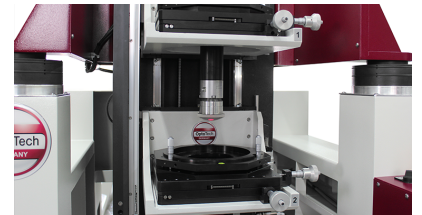


High precision Fizeau workshop interferometer OWI 150 XT 1500 for testing of spherical and aspherical surfaces. High precision kinematics and a working range up to Ø 150 mm make this measuring machine an indispensable tool for the production of high-end optics.



## Technical data

| OWI 150 XT 1500  |   |
|--|---|
| Application  | Workshop interferometer for form measuring of spherical and aspherical optical components |
| Measuring Range Diameter (depending on reference sphere and Interferometer module) | 1 mm - 150 mm   |
| Measuring Range Radius   | Depending on reference sphere   |
| Available interferometer modules   | Zygo VeriFire / Mar Opto FI 1100 Z / MarOpto FI 1150 Z                                    |
| Interface  | 4" or 6" Bayonet-Interface (depending on interferometer module)                           |
| Measuring Accuracy   | $\lambda/20$ (depending on reference sphere)  |
| Travel   | 1500 mm   |
| Power Requirement (others on request)  | 1.0 KW  |
| Dimensions   | Width: 1150 mm, Height: 2600 mm, Depth: 1500 mm; without Table                            |
| Weight (approx.)   | 1600 Kg   |
| Disclaimer   | All data are subject to change without notice. Please verify details with OptoTech.       |





## Highlights

- Optimized for use at the production level
- Measuring stand made of shock-absorbing granite for highest accuracy and rigidity
- Stainless steel machine base. Mounted on passive air dampening elements on stable steel base frame.
- 3 passive air shock-absorbing elements with granite tower for highest precision and rigidity
- Radii slide with free of play prestressed antifriction bearing, driven by servo motor. Joystick for variable speed travel up to 1500 mm.
- 3 axis precision adjustable table (Various options for X/Y measurement)
- Heidenhain glass scale with 5 µm measuring accuracy for the total travel for absolute measuring precision of radii, scale mounted close to the optical axis (Abbe's principle)
- Radii axis measured by laser alignment (including measuring protocol)
- Innovative mounting of the current types of interferometers (MAHR MarOpto FI 1100 Z, Zygo GPI 4 Inch and 6 Inch, Äpre S100/150 HR) incl. analysis software
- Redirection of radius axis via mirror system, space saving mounting with great accessibility
- Including mobile PC-workstation with integrated electrical cabinet and storage system

## System advantages

- Space saving mounting design for easy accessibility due to redirection of radiancy axes via mirror system
- 3 passive air shock-absorbing elements with granite tower for highest precision and rigidity

## Options

- Expandable to a Two Table Version (Asphere Measuring Option and System Measuring Option)
- Plano measuring by additional tip and tilt table
- Various ring holders
- Laser alignment compensation of measuring faults for accuracy  $\pm 1\mu\text{m}$
- Automatic radii measuring unit
- Optional plano surfaces, aspheres and systems in double rounds (Interferometer module optionally).