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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.

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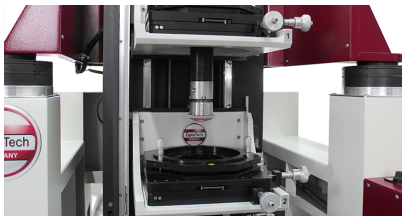
Technical Data

	OWI 150 XT 1500
Application	Interometrical 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
Interface	4“ or 6“ Bayonet-Interface (depending on interferometer module)
Measuring Accuracy	λ/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.



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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 bylaser alignment (including measuring protocol)
- Different powerful interferometer module options (LT Ultra Modules 4" / 6" or Zygo QualiFire 4" / 6") and comfortable software solutions for evaluating your measurement results available
- 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 accessability 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)
- Laser measuring system optional for 1-table version
- Optional passive or active damping systems
- Plano measuring by additional tip and tilt table
- Various ring holders
- Laser alignment compensation of measuring faults for accuracy ±1µm
- Automatic radii measuring unit
- Optional plano surfaces, aspheres and systems in double rounds

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