OptoTech

OWI 100 ECO

Workshop Interferometer with Motor Driven Adjustment of the Z-Axis for non-Contact Testing and Measuring of Spheres

High precision and low cost workshop interferometer OWI 100 ECO for spherical and plano optics with driven motion for Z-axis.

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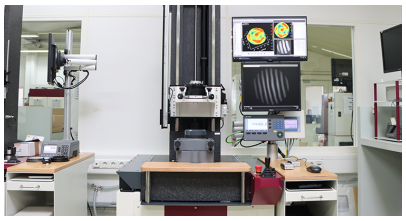
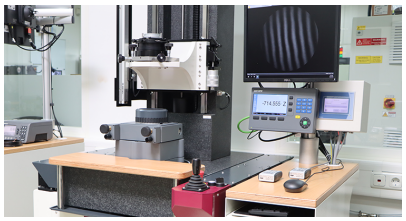
Technical Data

	OWI 100 ECO
Application	Non-Contact Measuring of Spheres
Measuring Range Diameter (4“ spheres)	0 mm - 100 mm
Measuring Range Radius	Depending on reference sphere
Travel Z	0 mm - 800 mm
Interface	4“ bajonett interface
Measuring Accuracy	up to λ/20 (depending on reference sphere)
Power Requirement (others on request)	1 kW
Dimensions	Width: 1180 mm, Height: 2330 mm, Depth: 800 mm
Weight (approx.)	825 kg; Without Module
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.





Highlights

- Rigid granite tower with integrated active isolation system for maximum precision and vibration-neutral measurements in the production environment
- Joystick for infinitely adjustment of the measuring table with clearance-free bearings on linear slides
- Table driven by servo motor and ball screw spindle and speed adjustable by joystick (infinitely variable)
- Manual fine adjustment using fine thread screw with high precission roller guides
- 3-Axis table (only Z-Axis in basic machine; different X-Y versions on option)
- Various Interferometer modules: LT Ultra Module, Zygo Qualifire
- 4“ bayonet interface for reference spheres, compatible to Zygo, Zeiss F-Aplanar etc.

System Advantages

- Ideal economic cost/performance ratio
- Highest rigidity due to granite base and passive air bearing elements
- Fine adjustment by precision drive and clearance free precision bearings

Options

- Tip and tilt table for plano measuring
- Phase shifter and software evaluation OptoTech µShape OWI for maximum accuracy and logging
- Heidenhain linear measuring system for accurate absolute determination of radii; mounted near the optical axis to adhere to the „Abbe“ comparation principle
- Inspect Mini 4“
- LT Ultra Module + µShape
- Zygo Qualifire + Zygo Mx

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