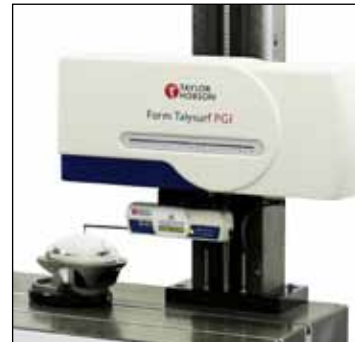


PGI Optics

The industry standard for precision optics metrology



The most versatile metrology in the industry

Talysurf PGI Optics

Simply the best form accuracy when measuring aspheric and diffractive optics

Following its first release in 1984, the Form Talysurf quickly became the number one tool for optics manufactures in measuring aspheric form error. Since then, we have installed thousands across the globe becoming a true industry standard.

Our patented PGI (Phase Grating Interferometer) technology enables you to measure large sags with short length styli. This enables us to combine very high stiffness and low force offering much greater accuracy and repeatability than our competitors.

New software!

Easy-to-use interface increases productivity

New wide range gauge!

Measurement of large sag lenses without compromise

- ☑ Easy to program
- ☑ Easy to use
- ☑ Fast and accurate
- ☑ Packed with powerful analysis tools to improve your capacity and capability



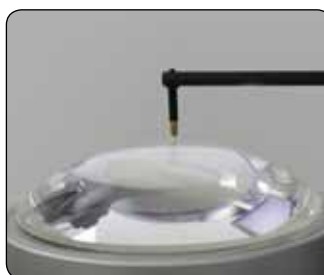
The most versatile metrology in the industry



Plastic lenses



Small components



Large diameter optics



IR glass and crystals



The benefits of Talysurf PGI Optics

Traceable & repeatable results

Lens testing is made easy, with guaranteed accurate results. Automatic cresting, measurement and analysis coupled with automated spike removal and radius optimisation help to give the most repeatable results.

New gauge design with improved measurement range!

The new PGI Optics large range gauge enables measurement of large sag lenses without compromise of accuracy. The latest PGI gauge will measure up to 14mm of sag with a 60mm long stylus and up to 28mm with a 120mm stylus.

Connection to manufacturing process

Our new X-offset and radius compensation algorithms enable quick and effective feedback to the manufacturing machines to improve process yields. This capability dramatically reduces set-up time for CNC grinding and diamond turning operations, and enables quick compensation for temperature drift issues throughout the day.

“The new AAU software from Taylor Hobson has increased our capability to manufacture high accuracy Infrared optics with enhanced diffractive analysis capabilities.”

**Tim Olsen (Director of Engineering)
Janos Technology**

Advanced Software saves production time and increases output

Aspherics Analysis Utility (AAU) software verifies the quality of optics and saves time with instant analysis of form error; radius, slope error, zone depth and spacing. Unique patented technology delivers nanometre level residual form error analysis, and advanced algorithms can extract a sub-micron lens form error from much larger diffractive zone depths.

New features such as automatic spike removal, P-V/ RMS radius optimisation, flanking and sag calculators enable you to reduce subjective measurement analysis errors in a production environment.

Reverse engineering

Derived co-efficient functions enable reverse engineering of aspheric and diffractive components. The user can reverse fit the raw sag data to the asphere and/or diffractive equations giving a new, as-is manufactured lens, to enable evaluation and adjustment of critical optical design parameters to improve the imaging system performance.



Serving a global market

Taylor Hobson is world renowned as a manufacturer of precision measuring instruments used for inspection in research and production facilities. Our equipment performs at nanometric levels of resolution and accuracy.

To complement our precision manufacturing capability we also offer a host of metrology support services to provide our customers with complete solutions to their measuring needs and total confidence in their results.

Contracted services from Taylor Hobson

Sales department

Email: taylor-hobson.sales@ametek.com

Tel: +44 (0)116 246 2034

- **Design engineering**
special purpose, dedicated metrology systems for demanding applications
- **Precision manufacturing**
contract machining services for high precision applications and industries

Service department

Email: taylor-hobson.service@ametek.com

Tel: +44 (0)116 246 2900

- **Preventative maintenance**
protect your metrology investment with an Amecare support agreement

Centre of Excellence department

Email: taylor-hobson.cofe@ametek.com

Tel: +44 (0)116 276 3779

- **Inspection services**
measurement of your production parts by skilled technicians using industry leading instruments in accord with ISO standards
- **Metrology training**
practical, hands-on training courses for roundness and surface finish conducted by experienced metrologists
- **Operator training**
on-site instruction will lead to greater proficiency and higher productivity
- **UKAS calibration and testing**
certification for artifacts or instruments in our laboratory or at customer's site



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