

Aspheric Mould Measurement System

NEW – 75nm Precision, Fully Automated Form Measurement Solution For Moulded Aspheric Optics with No Slope Limitation

The new Form Talysurf PGI 1250A from Taylor Hobson is a dedicated premium specification measurement system for small, steep-sided aspheric moulds. Unique gauging, software and fixturing delivers fully automatic turnkey solution, offering production form measurement capability of 75nm.

PGI 1250A - A new global standard

Steep-sided Aspheric Moulded Optics are amongst the most demanding of today's ultra-high precision form measurement applications. The new Form Talysurf PGI 1250A can measure lenses or moulds as small as 0.5mm \varnothing . Slopes of up to 90° can be measured with no loss of accuracy.

- Blu-Ray / HD DVD Optics
- Cellphone Camera Lenses
- Digital Camera & Projector Lenses



Form Talysurf PGI 1250A

Aspheric Data Fusion Software

Taylor Hobson's patented Aspheric Data Fusion Software allows three measurement profiles to be joined without creating additional measurement uncertainty. This sub-micron component alignment accuracy required is delivered by Ultra Precision fixturing, available in either motorised or manual versions.

Fully automated solution

The Form Talysurf PGI 1250A has been developed specifically for the optics industry. Every aspect of the system is manufactured to the highest possible level, which results in unparalleled system performance.

- Calibration
- Measurement
- Analysis



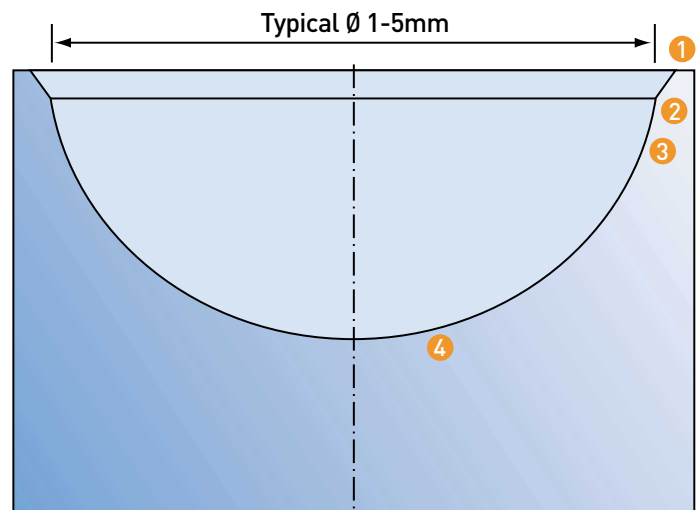
All automatic

Aspherics Analysis Software

- Form Analysis
- Feedback to Machine
- SAG Table Export
- Astigmatism Analysis
- Derived Coefficients



All included



Aspheric mould example

- 1 Accurately machined mould face
- 2 Very steep sides towards edge of lens
- 3 High Aspheric departure in this region
- 4 Minimal Aspheric departure in this region

For more details of the Form Talysurf PGI 1250A, or the exceptional value PGI 850A, please contact your local Taylor Hobson sales agent.

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

- 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

For the above services, contact our Center of Excellence:

email: taylor-hobson.cofe@ametec.com
 or call: +44 116 276 3779

- Design engineering**
 special purpose, dedicated metrology systems for demanding applications
- Precision manufacturing**
 contract machining services for high precision applications and industries
- Preventative maintenance**
 protect your metrology investment with a Talycare service cover plan

For the above services, contact our Sales Department:

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