

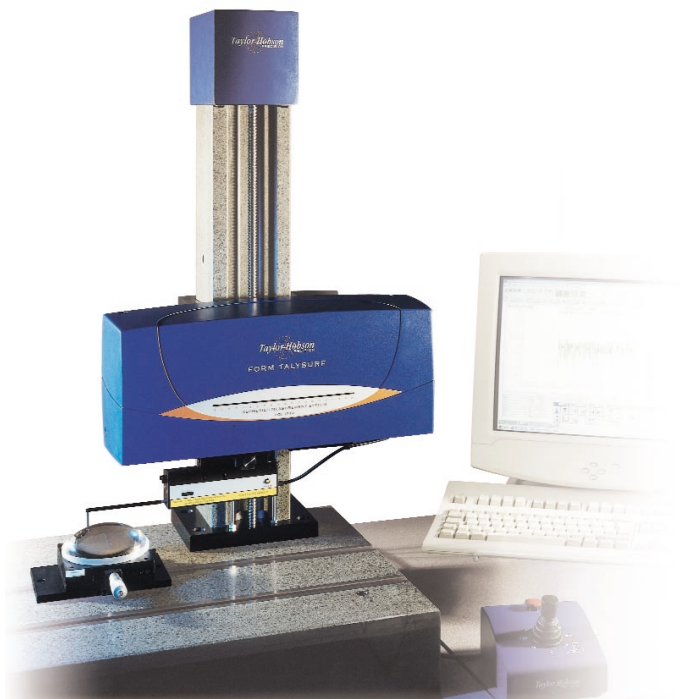
Precision form & surface finish measurement for aspheric optics

The Form Talysurf PGI 840 from Taylor Hobson is a premium specification measurement system for the small to medium sized aspheric optics market. It is designed for applications where optimum component quality and consistency cannot be compromised.

PGI 840 - A new generation of excellence

At Taylor Hobson we are proud of our reputation as the solution provider of choice within aspherics metrology. The Form Talysurf has evolved over the past 20 years, delivering continuous improvement for our customers. The PGI 840 Aspherics Measurement System represents a new level of performance for applications such as:

- Diamond-turned or Ultra-precision ground molds for plastic or glass optics
- Aspherics for laser applications
- Digital cameras, projectors, etc
- IR & Diffractive optics up to 120mm diameter



Designed to meet research & production needs

Ultra-high precision processes such as Single-Point Diamond Turning allow aspheric lenses to be manufactured with form tolerances down to small fractions of λ . To achieve such levels of precision, metrology must be fully integrated with machining.

Form Talysurf PGI 840 delivers this capability by directly exporting measurement results back to the machine tool, creating a corrective 'feedback loop'. New custom styli expand the range of applications which can be measured using the PGI 840.

PGI 840 has industry leading specifications

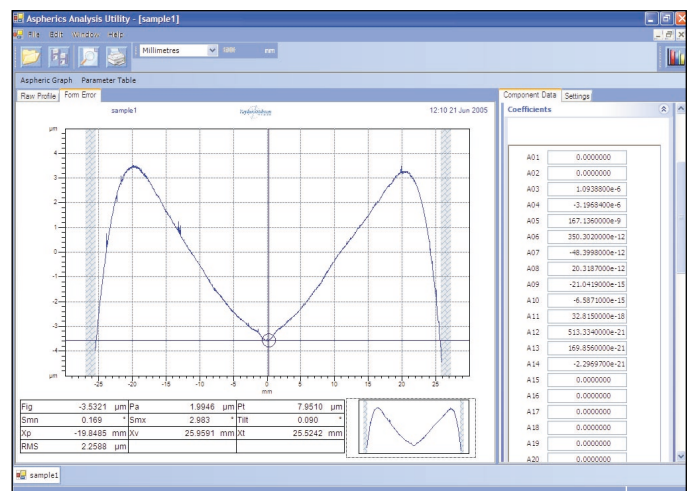
The Form Talysurf PGI 840 has been developed specifically for the optics industry. Every aspect of manufacture is to the highest possible level which results in unparalleled system performance.

- 120mm Traverse unit with $0.25\mu\text{m}$ \ 120mm straightness
- 8mm Gauge range, 0.8nm vertical resolution
- 16mm Gauge range possible with 120mm stylus arm
- 2nm RMS noise floor provides market-leading optics surface finish measurement capability
- Extensive Range of Optional Accessories, including styli for demanding applications

Aspherics Analysis Software

Taylor Hobson's recently launched Aspherics Analysis Software incorporates a number of new features expressly designed to meet the needs of Aspherics Optics Manufacturers, including:

- Aspheric Form Analysis
- User Selectable Radius Optimisation and λ s Filter
- Report Generation Capability
- SAG Tables
- Astigmatism Analysis
- Derived Coefficients Module (optional)
- Asphero-Diffractive Analysis (optional)



For more details of the Form Talysurf PGI 840, please contact your local Taylor Hobson sales agent, or go to our website.

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:

email: taylor-hobson.sales@ametec.com
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