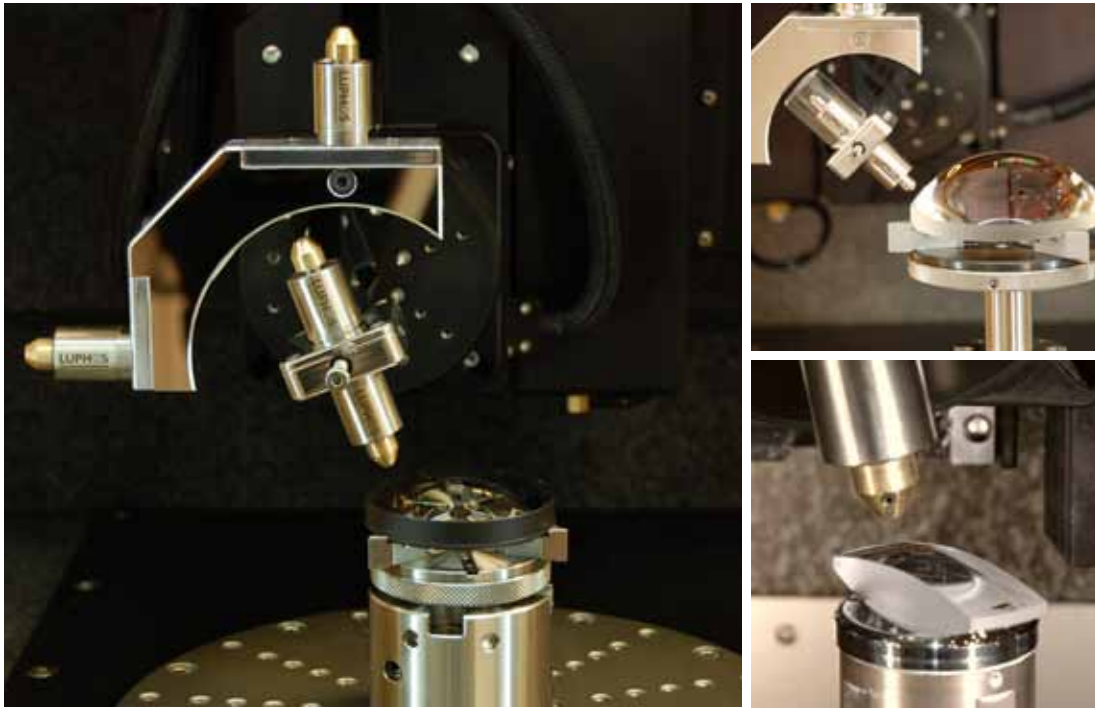


LUPHO*Scan*

Fast non-contact 3D form measurement
of aspheric optics



Your turn-key solution for ultra precision metrology



LuphoScan platforms are interferometric, scanning metrology systems based on MWLI® technology (multi-wavelength interferometry). They are designed to perform ultra precision non-contact 3D form measurements mainly of rotationally symmetric surfaces such as aspheric lenses.

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LuphoScan systems offer crucial benefits with regard to 3D form measurements of high quality optical surfaces

- Investigation of any rotationally symmetric surface
Aspheres, spheres, flats and slight freeforms
- Ultra high, reproducible accuracy
 $\leq \pm 50$ nm
- Almost every material
Transparent, specular, opaque, polished, ground
- Large spherical departures
Unrestricted, e.g. can measure pancake or gullwing surfaces, and profiles with points of inflection
- Steep slopes
Up to 90° (i.e. measurement of hemispheres)
- Highly flexible*
Measures segmented surfaces, annular optics, rectangular surfaces, surfaces with diffractive structures, axicons
- Complete lens characterisation*
Lens thickness, wedge error, decentre error, lens–mount positioning
- Diameters
Up to 120 mm, 260 mm, or 420 mm
- Fast measurement speeds
E.g. 1:58 min ($\varnothing = 30$ mm, Roc = 60 mm, 100 points / mm^2),
or 5:29 min ($\varnothing = 130$ mm, Roc = 150 mm, 50 points / mm^2)

*Add-ons, see pages 8-11

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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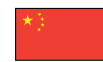
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