



CCI MP-HS

Next generation interferometry at >100 microns/sec.



CCI MP-HS: Non-contact 3D optical profiler



High speed metrology without compromise

- Scan speed up to 100 microns/second without any loss of data quality
- 1024 x 1024 pixel array for large FOV with high resolution
- 2.2 mm vertical range with closed loop piezoless Z axis scanner
- AutoStitch as standard, measures large parts at high resolution

Industry leading data quality

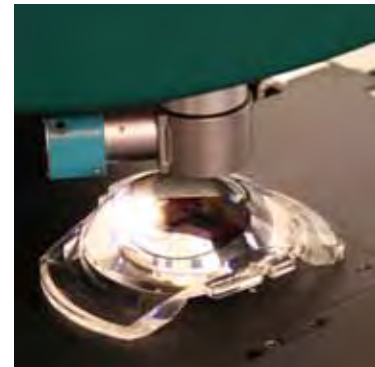
- 0.1 ångstrom resolution over the entire measurement range
- <0.2 ångstrom RMS repeatability, <0.1% step height repeatability
- Integrated anti vibration for optimum noise performance
- New Claritas 20 light conditioning, increased angle sensitivity improves data quality

Robust design ensures low cost of ownership

- Piezoless Z axis scanner eliminates expensive repair bills
- Automatic surface detection prevents crash damage to lens
- New XL option for larger parts without loss of data quality
- Ease of operation reduces the possibility of operator error

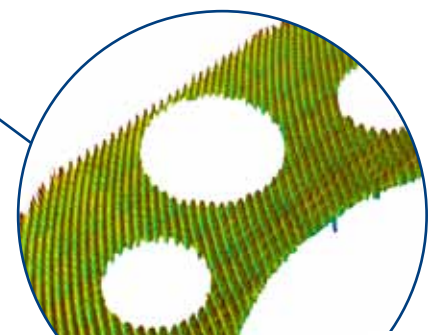
Windows® 7 (64-bit) software

- Multi-language support including Chinese and Japanese
- Advanced 64-bit AutoStitch offers fast stitching over large areas
- New tools including 4D analysis of 3D surfaces as they evolve over time
- Automatic report generation based on batches of measurement data



Understanding structured surfaces

The large field of view and high resolution of the CCI MP-HS enable the understanding of complex structured surfaces.



“The CCI has proven highly valuable. The instrument utilizes Coherence Correlation Interferometry, a Taylor Hobson-patented technique, to provide both long scan ranges and high-resolution surface measurement with a single mode of operation.”

Professor Manasreh
University of Arkansas, USA



The CCI MP-HS XL is optimized for the measurement of large components without compromising the resolution

Unlimited application possibilities

Three elements of surfaces – dimension, form and texture – are critical to the function of a component. Exceptional roughness capability coupled with large area measurement, advanced data analysis (2D and 3D) and Taylor Hobson's expertise provides industry leading metrology.

Many users look to CCI MP-HS for solving measurement problems that other instruments simply cannot handle. With outstanding range, resolution and ease of operation, the CCI MP-HS can easily become your ideal tool for R&D and quality assurance in a wide variety of applications.

- Material research
- Medical implants
- SIMS craters
- Bearing roughness
- Sealing surfaces
- Wafer roughness
- Polished optics
- Crankshaft finish
- Wafer etch depth
- Textured steel
- Fluid retention (bearing ratio)
- Solar cells
- Diamond turned surfaces
- Paper / toner
- LEDs
- Automotive injectors
- Phone handset finish
- MEMS
- Structured surfaces
- Tooth wear
- Data storage



Ball bearings



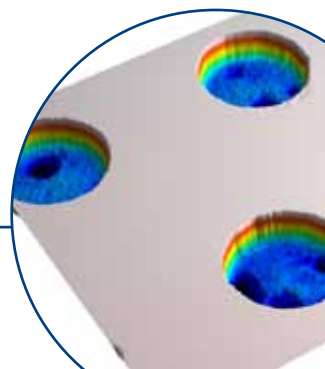
Grinding stones



Crankshafts

Laptop diffuser optimization

Controlling the uniformity of the pits improves the display quality. High speed measurement allows efficient process control of the diffuser manufacture.



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@ametek.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 Tallycare service cover plan

For the above services, contact our Sales Department:
email: taylor-hobson.sales@ametek.com
or call: **+44 116 246 2034**



Taylor Hobson UK

(Global Headquarters)
PO Box 36, 2 New Star Road
Leicester, LE4 9JQ, England
Tel: +44 116 276 3771 Fax: +44 116 246 0579
email: taylor-hobson.uk@ametek.com



Taylor Hobson France

Rond Point de l'Épine Champs
Batiment D, 78990 Elancourt, France
Tel: +33 130 68 89 30 Fax: +33 130 68 89 39
taylor-hobson.france@ametek.com



Taylor Hobson Germany

Postfach 4827, Kreuzberger Ring 6
65205 Wiesbaden, Germany
Tel: +49 611 973040 Fax: +49 611 97304600
taylor-hobson.germany@ametek.com



Taylor Hobson India

1st Floor, Prestige Featherlite Tech Park
148, EPIP II Phase, Whitefield, Bangalore – 560 006
Tel: +91 1860 2662 468 Fax: +91 80 6782 3232
taylor-hobson.india@ametek.com



Taylor Hobson Italy

Via De Barzi
20087 Robecco sul Naviglio, Milan, Italy
Tel: +39 02 946 93401 Fax: +39 02 946 93450
taylor-hobson.italy@ametek.com



Taylor Hobson Japan

3F Shiba NBF Tower, 1-1-30, Shiba Daimon Minato-ku
Tokyo 105-0012, Japan
Tel: +81 (0) 3 6809-2406 Fax: +81 (0) 3 6809-2410
taylor-hobson.japan@ametek.com



Taylor Hobson Korea

#310, Gyeonggi R&DB Center, 906-5, Iui-dong
Yeongtong-gu, Suwon, Gyeonggi, 443-766, Korea
Tel: +82 31 888 5255 Fax: +82 31 888 5256
taylor-hobson.korea@ametek.com



Taylor Hobson China Beijing Office

Western Section, 2nd Floor, Jing Dong Fang Building (B10)
No.10, Jiu Xian Qiao Road, Chaoyang District, Beijing, 100015, China
Tel: +86 10 8526 2111 Fax: +86 10 8526 2141
taylor-hobson.beijing@ametek.com



Taylor Hobson China Shanghai Office

Part A, 1st Floor, No. 460 North Fute Road
Waigaoqiao Free Trade Zone, Shanghai, 200131, China
Tel: +86 21 5868 5111-110 Fax: +86 21 5866 0969-110
taylor-hobson.shanghai@ametek.com



Taylor Hobson Singapore

AMETEK Singapore, 10 Ang Mo Kio Street 65
No. 05-12 Techpoint, Singapore 569059
Tel: +65 6484 2388 Ext 120 Fax: +65 6484 2388 Ext 120
taylor-hobson.singapore@ametek.com



Taylor Hobson USA

1725 Western Drive
West Chicago, Illinois 60185, USA
Tel: +1 630 621 3099 Fax: +1 630 231 1739
taylor-hobson.usa@ametek.com



www.taylor-hobson.com