

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

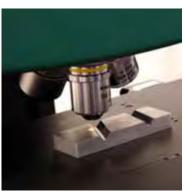
Robust design ensures low cost of ownership

- 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

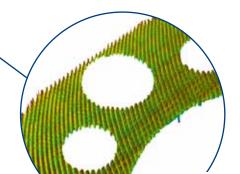
- Multi-language support including Chinese and Japanese
- Advanced 64-bit AutoStitch offers fast stitching over large areas
- New tools including 4D analysis of 3D surfaces as they evolve over time
- · Automatic report generation based on batches of measurement data





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.



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
- Bearing roughness
- Polished optics
- Textured steel
- Diamond turned surfaces
- Automotive injectors
- Structured surfaces

- Medical implants
- Sealing surfaces
- Crankshaft finish
- Fluid retention (bearing ratio) Solar cells
- Paper / toner
- Phone handset finish
- Tooth wear

- SIMS craters
- · Wafer roughness
- Wafer etch depth
- LEDs
- MEMS
- Data storage



Professor Manasreh

University of Arkansas, USA

Ball bearings



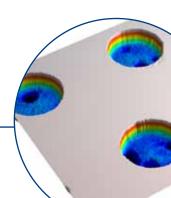
Grinding stones



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 Talycare service cover plan

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