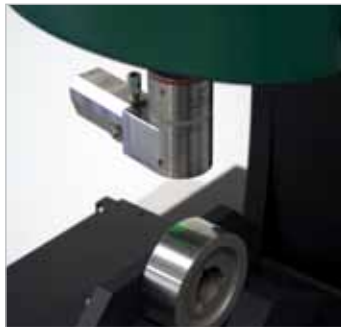


# CCI XL Series

High performance 3D non-contact measurement  
of large components



# CCI XL series: Non-contact 3D optical profilers

Available with CCI MP, CCI MP-HS and CCI HD configurations



## High quality metrology of large components

- Measure parts up to 200 mm high\*, with industry leading benchtop performance
- Deep bore measurement using 40 mm<sup>†</sup> LWD objective lens
- High speed measurement option available
- AutoStitch and Multi-site measurement offers ease of use and flexibility

## Industry leading data quality: Next generation interferometry

- Up to 2048 x 2048 pixels for high resolution and large field of view
- <0.02 nm RMS repeatability, <0.1% step height repeatability
- Integrated anti-vibration for optimum noise performance
- Single measurement mode for data you can trust

## Robust design ensures low cost of ownership

- Piezoless Z axis scanner high accuracy without expensive repair bills
- Automatic surface detection prevents crash damage to lens
- Flexible fixturing to increase ease of use
- FEA optimised mechanical design for excellent R&R capability

## Windows 7® 64-bit software

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



\* Other Z heights available upon request

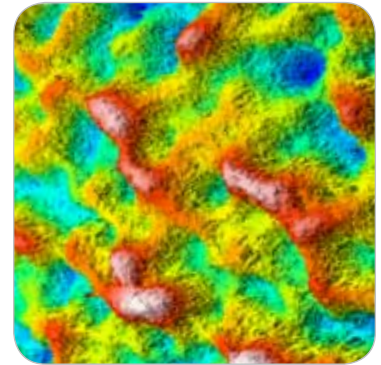
† Other working distances available upon request



## Expanding the range of applications

Interferometry is used in R and D and for manufacturing process control of a wide variety of components. Increasing the z height capability maximizes the number and type of components that can be measured.

Crankshafts	Medical implants
Camshafts	Textured steel
Structured surfaces	Material research
Fluid retention (bearing ratio)	Coatings
Bearing surfaces	Brake discs and pads



Surface features on a crankshaft pin

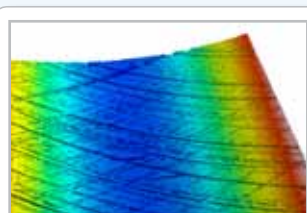


Structured sealing surface

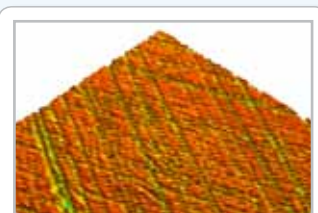
### Typical parameters measured include:

- Precision roughness and waviness
- Form and flatness
- Dimension measurement and analysis
- Pattern analysis (scratches, crosshatching, texturing etc.)
- Volume
- Coating thickness and roughness

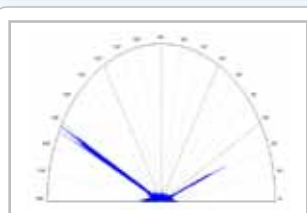
### Advanced metrology analysis



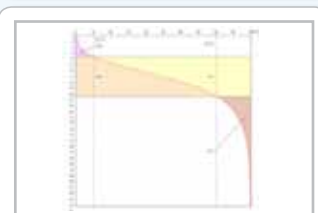
3D honed surface



Bearing surface



Texture



Bearing ratio analysis

## 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](mailto: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

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