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# Surtronic® R-100 series

High speed roundness measurement systems for the bearings industry









# Surtronic® R-100 series

## High speed roundness systems for the bearings industry



#### Surtronic® R-100 series

A range of roundness products robust enough for the shop floor but accurate enough for any inspection room.

Working closely with bearings manufacturers, Taylor Hobson has focussed on the key attributes that are most important for quality control in today's precision industries.

The new Surtronic® R-100 series instruments offer a flexible solution for all your roundness and form requirements with a variety of systems and application specific accessories along with fixtures that can be tailored to your specific need.

## Speed (3 parts/minute including set-up)

The most important benefit these systems offer is speed. In precision industries as manufacturing volumes increase all too often the bottleneck is metrology. High measurement throughput systems ensure higher sampling rates are achieved while also supporting increased manufacturing volumes.

# Precision (±25 nm spindle accuracy)

Although many times faster than traditional benchtop roundness systems there is no loss of precision or accuracy. Full ISO compliant measurements can be taken with  $\pm 25$  nm accuracy and 6 nm gauge resolution.

# Robustness (suitable for 24/7 operation)

All systems are designed for constant 24 hour, 7 days a week use in demanding shop floor environments; manufactured using only the most durable and hard wearing materials.

# Ease of use (touchscreen software)

The X-sight touch screen software platform with intuitive navigation make the Surtronic® roundness system as easy to use as a SatNav or SmartPhone with everything you need at your fingertips.





X-sight touch screen software

Speed and reliability matter; we choose Taylor Hobson metrology.

Dr Sashi Balakrishnan, Chief Tribologist, Mercedes-Benz High Performance Engines (leading Formula 1 engine supplier)

# World's highest throughput roundness system...

- Increase manufacturing output
- Reduce part scrappage



- Ensure part traceability
- Improve 'right first time'

#### What can it measure?

The Surtronic® R-series instruments are ideally suited to measuring high volume production parts across a wide variety of industries including:

#### **Bearings**

- Races, Balls, Needles and Rollers



### Patented gauge orientation

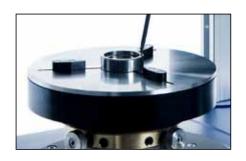
Using Taylor Hobson's patented gauge orientation with its robust locking mechanism changing orientation from roundness to flatness or internal to external only takes a few seconds.

# Accurate gauging

All systems incorporate Taylor Hobson's accurate and reliable Talymin gauge technology, delivering 6 nm resolution.

# Patented rapid centre™

Rapid Centre avoids valuable cycle time being lost on manual part centring. On most parts precision results are achieved following a very simple and fast loading procedure. Now roundness measurements can be made in less than 30 seconds including part loading, centring, measurement, analysis and results display!





#### Accessories and standards

A full range of accessories and standards are available to support the instrument. These include Magnetic chuck, Rapid Centre fixture, Glass hemisphere, Calibration set, Precision test cylinder, Cresting standard, Stylus kit, Flick standard (20  $\mu m$  or 300  $\mu m)$  and replacement air filter modules.



# 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

 ${\it Email:} \ {\it taylor-hobson.sales@ametek.com}$ 

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

 ${\it Email:} \ {\it taylor-hobson.service@ametek.com}$ 

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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