

Surtronic R-series

High speed roundness measurement system



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High speed roundness systems for bearings, automotive and precision industries



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A range of roundness products designed specifically for shop floor and inspection room environments.

Working closely with manufacturers across a wide range of industries including precision bearings, automotive and aerospace engineering Taylor Hobson have focussed on the key attributes that are most important for quality control in today's precision industries

The new Surtronic R100/R105 of instruments offer a flexible solution for all your roundness and form requirements with a variety of systems and application specific accessories and fixtures that can be tailored to your specific need.

Speed

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 ensures higher sampling rates can be achieved while supporting increased manufacturing volumes.

Precision

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 ± 25 nm spindle accuracy and 6nm gauge resolution (30nm for R100/R105)

Robustness

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

The X-sight touch screen software platform with intuitive navigation make the Surtronic roundness system as easy to use as a SatNav 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 HPE

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 of instruments is ideally suited to measuring high volume production parts across a wide variety of industries.

Bearings

- Races, Balls, Needles and Rollers

Automotive

- Valves, Con Rods, Pins and Brake Discs

Process Control

- Grinding, Turning, Milling and Honing



Patented Gauge Orientation

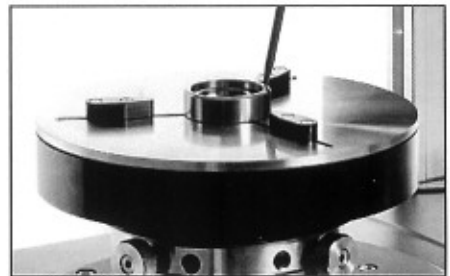
Using Taylor Hobson's patented gauge, now with a robust, simple to use push and click mechanism, orientation from roundness to flatness or internal to external only takes a second.

Accurate gauging

All systems incorporate Taylor Hobson's accurate and reliable roundness gauge technology, delivering 2mm of gauge range combined with 6nm resolution (30nm for R100 series).

Patented Rapid Centring

Rapid Centre avoids the need to waste valuable cycle time on manual part centring. High quality, precision results are achieved following a very simple 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 (20um or 300um) and replacement air filter modules.