

Talyrond 450

For high precision inspection of roundness and cylindrical geometry on large, heavy or complex components.

The world's first roundness measuring instrument was produced by Taylor Hobson in 1949. We continue to lead the industry with innovative products developed to suit the most difficult requirements for roundness, form and circular geometry measurement.

Large or small parts

Although it is the obvious choice for heavyweight components, Talyrond 450 can also accommodate small, delicate components as well. Accuracy and repeatability are assured no matter how big or small the parts may be.



Big not clumsy

This instrument can handle the heaviest loads with ease, yet still provide accuracies better than those available on many ordinary measuring systems.

The Talyrond 450 with rotating gauge head is especially well suited for the measurement of non-symmetrical components such as cylinder blocks

Geometric analysis

- RONt Roundness
- STRt Vertical Straightness
- FLTt Flatness
- ECC Eccentricity
- SQR Squareness
- Parallelism
- CONC Concentricity
- COAX Coaxiality (ISO/DIN)
- CYLc Cylindricity
 - Run-out (radial and axial)
 - Total run-out (radial and axial)
 - Harmonics
 - Partial Arc
 - Interrupted surfaces
 - Slope analysis

Optional software

- Piston analysis
- Wall thickness analysis



Rotating gauge for greater versatility

Talyrond 450 has significant benefits for manufacturers who demand high precision and versatility in the measurement of circular geometry on large components; especially those with features that are non-symmetrical to a rotational axis. It has particular applications in the machine tool, automotive, aerospace and large bearing industries.

Automatic measurement of cylinder bores

The X - Y travelling worktable allows the system to be programmed to measure the roundness geometry of engine block cylinder bores in turn at any number of pre-selected planes without operator intervention.

Form measurement of tall components

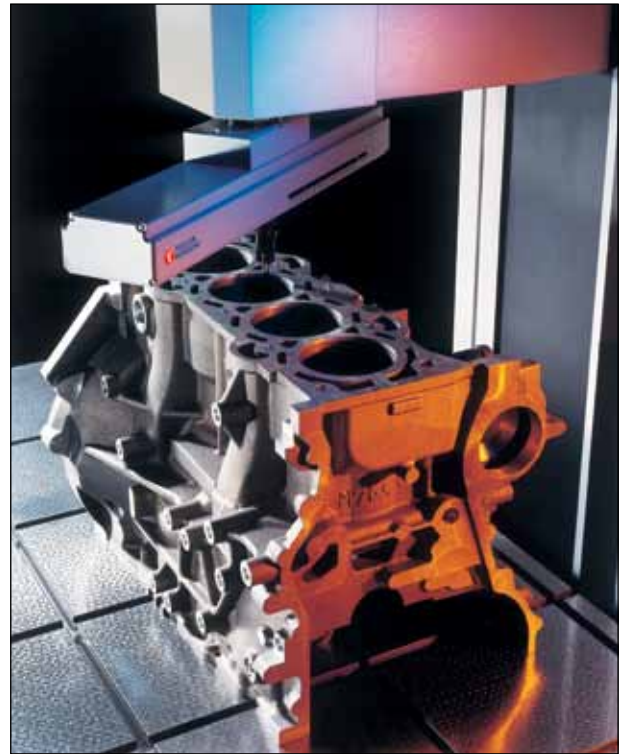
Gauge extension arms up to 750mm length permit vertical straightness and multi-plane geometrical measurements on extra long components.

Automated batch inspection of small components

With fixturing designed to accept a number of small components, the system can be programmed for automatic, continuous multi-component inspection. Unattended operation allows operators to perform other tasks which can result in much higher levels of inspection room productivity.

Don't touch for best results

Automation saves time and frees an operator to perform other tasks. However, the real benefit of eliminating operator intervention is the elimination of operator error. The Talyrond 450, with completely automatic measuring runs, assures that any deviation of measured values is due to variations in the manufacturing process, not operator influence.



	Height capacity	Throat depth	Weight capacity	Table area	X Axis traverse	Y Axis traverse	Radial traverse
Talyrond 450							
M155/P33359	1000mm	400mm	1000kg	1200 x 630mm	+/- 500mm	+/- 50mm	150mm
M155/P33799	1500mm	400mm	1000kg	1200 x 630mm	+/- 500mm	+/- 50mm	150mm