

# Talyrond® 595H

A revolutionary concept in automated roundness inspection



# The Talyrond 595H series

A new concept in roundness measurement



Measure three critical performance elements...

**Roundness,**  
**Surface finish,**  
and now **Contour**

...exactly as they were produced





## High precision emulation of your manufacturing process

The all-new Talyrond 595H roundness instruments use rotary, vertical and horizontal measuring datums to duplicate your machine tool's movement and exactly reproduce the workpiece shape. This ultra high precision simulation of the cutting tool path enables precise control of your manufacturing process.

## Reproducible measurement results

Decades of experience, ultra precision machining expertise and FEA optimized design combine to provide low noise and near flawless mechanical execution of the measuring axes. Further enhancement via the use of traceable standards and exclusive algorithms effectively eliminates instrument influence from the measurement results.

## Monitoring manufacturing

 <b>Gauge</b>	 <b>Roundness</b>	 <b>Roughness</b>	 <b>Contour</b>
<b>Gauge Range</b> Up to 4 mm	<b>Radial Accuracy</b> $\pm 0.008 \mu\text{m}$	<b>Noise</b> Less than 20 nm Rq all axes	<b>LS Arc measurement</b> 5 $\mu\text{m}$
<b>Resolution</b> Down to 0.3 nm		<b>Ra values</b> Less than 0.05 $\mu\text{m}$	<b>Pt</b> 0.5 $\mu\text{m}$

