



# Talyrond® 565/585H

A revolutionary concept in automated roundness inspection



# The Talyrond 500H

A new concept in roundness measurement

The Talyrond 500H series is unsurpassed in speed and position control making it the ideal system for high volume precision components







## High precision emulation of your manufacturing process

The all-new Talyrond 500 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.

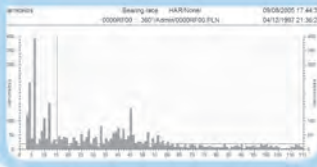
## Monitoring manufacturing

 <b>Gauge</b>	 <b>Roundness</b>	 <b>Roughness</b>	 <b>Contour</b>
<b>Gauge Range</b> Up to 4 mm	<b>Radial Accuracy</b> $\pm 0.01 \mu\text{m}$	<b>Noise</b> Less than 30nm 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 0.1 $\mu\text{m}$	<b>Pt</b> 0.5 $\mu\text{m}$

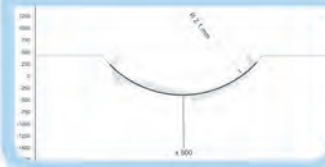
# Applications

## Inner bearing races

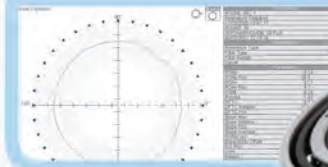
Harmonic analysis



Form & radius analysis



Roundness

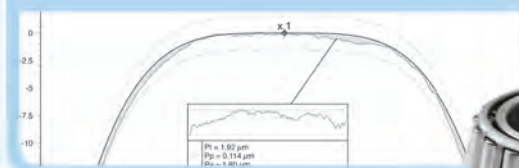


## Roller bearings

Roundness

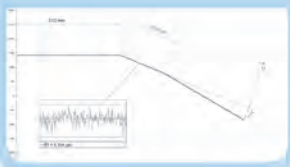


Tilt and form error to axis of rotation

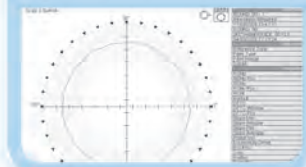


## Fuel injectors

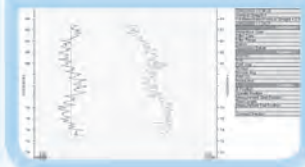
Angle and distance



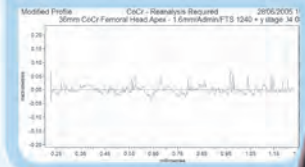
Roundness



Parallelism



Surface finish

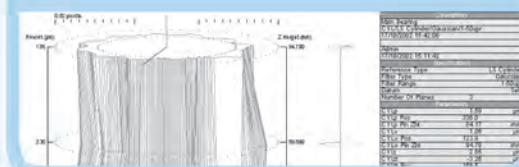


## Crankshafts

Parallelism

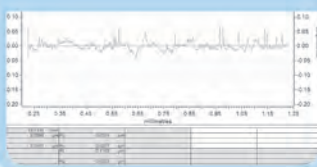


Cylindricity

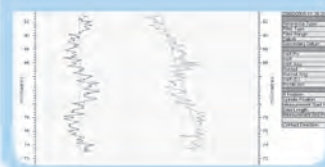


## Turbo chargers

Surface finish



Parallelism



Cylindricity

