Talyrond® 565/585H

A revolutionary concept in automated roundness inspection
The Talyrond 500H
A new concept in roundness measurement

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

<table>
<thead>
<tr>
<th>Gauge Range</th>
<th>Radial Accuracy</th>
<th>Noise</th>
<th>LS Arc measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 4 mm</td>
<td>± 0.01 µm</td>
<td>Less than 30nm Rq all axes</td>
<td>5 µm</td>
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<tr>
<td>Resolution</td>
<td>Ra values</td>
<td>Pt</td>
<td></td>
</tr>
<tr>
<td>Down to 0.3 nm</td>
<td>Less than 0.1µm</td>
<td>0.5 µm</td>
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</table>
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