NEW
Roundness and Cylindrical Profile Measuring Instruments

RONDCOM NEX Rs

TOKYO SEIMITSU
High accuracy roundness and roughness measuring machine

**RONDCOM NEX Rs**

It responds to high-precision of parts by downsizing work, and realizes top class rotation accuracy 0.02 + 3.2 H/10000 μm.

**High accuracy roughness measurement**

Achieve high accuracy roughness measurement in R-axis, T-axis and Z-axis.

Measurement example
R axis direct operated roughness measurement (roughness specimen)

Offset type detector holder **PATENTED**

Various workpieces can be measured easily without interference from the R-axis arm. You can switch between outside diameter measurement and top flatness measurement just by tilting the detector holder.

**Software**

**Integrated Analysis Software ACCTee**

New Measurement Style with New Concept

**Easy-to-Use Interface for Leading-Edge Operability**

ACCTee is equipped with a Windows style user interface that is easy for anyone to understand and use. User-friendly and intuitive icons guide you through a series of operations from measurement to the printing of analysis results.
**Detector positioning for ID/OD measurements, top/under/tapered surfaces measurements, and so on can be controlled automatically. The same detector is used with all standard type instruments and is also available after upgrades. Once you have both a standard model and the CNC holder model, maintenance costs are reduced.**

**Offset type CNC detector holder (Optional)**

Detector positioning for ID/OD measurements, top/under/tapered surfaces measurements, and so on can be controlled automatically. The same detector is used with all standard type instruments and is also available after upgrades. Once you have both a standard model and the CNC holder model, maintenance costs are reduced.

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>RONDCOM NEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring system</td>
<td>CNC and manual</td>
</tr>
<tr>
<td>Measuring range</td>
<td>Max. measuring diameter: Φ 300 mm</td>
</tr>
<tr>
<td></td>
<td>Up/down feed range (Z-axis): 300 mm</td>
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<tr>
<td></td>
<td>Radial feed range (R-axis): 180 mm</td>
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<tr>
<td></td>
<td>Max. loading diameter: Φ 580 mm</td>
</tr>
<tr>
<td></td>
<td>Max. measuring height: 300 mm</td>
</tr>
<tr>
<td>Rotation accuracy</td>
<td>Radial direction H: Measuring height (mm): (0.02 + 3.2 H/10,000) μm (Gaussian 15 UPR)</td>
</tr>
<tr>
<td></td>
<td>Axis direction R: Measuring radius (mm): (0.02 + 3.2 R/10,000) μm (Gaussian 15 UPR)</td>
</tr>
<tr>
<td>Straightness accuracy</td>
<td>Up/down direction (Z-axis): 0.10 μm/100 mm, 0.15 μm/300 mm</td>
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<tr>
<td></td>
<td>Radial direction (R-axis): 0.7 μm/180 mm</td>
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<tr>
<td>Parallelism accuracy</td>
<td>Up/down direction (Z-axis): 0.7 μm/300 mm</td>
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<tr>
<td>Perpendicularity accuracy</td>
<td>Radial direction (R-axis): 1.0 μm/150 mm</td>
</tr>
<tr>
<td>Move speed</td>
<td>Rotation speed (T-axis): Max: 20/min, 1 to 10/min (Rotational measurement), 0.01 to 1/min (Roughness measurement)</td>
</tr>
<tr>
<td></td>
<td>Up/down direction speed (Z-axis): Max: 60 mm/s, 0.5 to 10 mm/s (Rectilinear measurement), 0.1 to 1.5 mm/min (Roughness measurement)</td>
</tr>
<tr>
<td></td>
<td>Radial direction speed (R-axis): Max 30 mm/s, 0.5 to 10 mm/s (Rectilinear measurement), 0.1 to 1.5 mm/min (Roughness measurement)</td>
</tr>
<tr>
<td>Rotary table</td>
<td>Table outside diameter: Φ 235 mm</td>
</tr>
<tr>
<td></td>
<td>Adjustment range of centering/lifting: ±5 mm/±1°</td>
</tr>
<tr>
<td>Max. load capacity</td>
<td>300 N</td>
</tr>
<tr>
<td>Measuring range</td>
<td>±1000 μm, ±200 μm</td>
</tr>
<tr>
<td>Special function</td>
<td>Offset type CNC detector holder (Optional)</td>
</tr>
<tr>
<td>Other</td>
<td>Power supply (Voltage to be specified): AC 100 V to 240 V, 50/60 Hz (Grounding required)</td>
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<tr>
<td></td>
<td>Air consumption volume: 30 NL/min</td>
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<tr>
<td></td>
<td>Installation dimensions (W x D x H) mm: 720 (W) x 580 (D) x 895 (H)</td>
</tr>
<tr>
<td></td>
<td>Weight (except options): 180 kg</td>
</tr>
</tbody>
</table>
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