Top class high accuracy roundness cylindrical profile measuring instrument

**Rotation accuracy** (0.02 + 3.2 H/10000) μm

Equipped with full new function and meets a need of machined parts high accuracy measurement. It is a top class high accuracy roundness cylindrical profile measuring instrument.

**Opposed diameter measuring function** patented

Superior feature to measure inner/outer diameter with high repeatability. Measure a workpiece at angles of 0 and 180 degrees on the table. The evaluation algorithm implemented as the standard to correct the errors by temperature change and generatrix line shifting, performs highly-precise diameter measurement.

**R-axis taper following function**

The straightness of tapered surface can be measured by the function. Taper angle and straightness can be measured even if it exceeds the range of the detector.

*Taper angle may have an impact on the measurement accuracy at straightness. Contact us for details.

Dedicated catalog is available.
**CNC upgrade available**

To meet the needs of many users, it is now possible to upgrade a manual machine to a CNC machine. The CNC conversion is amazingly easy and makes no change to the installation space. If you have installed a manual machine because only a small quantity of workpieces had to be measured, the machine can be upgraded in the same space whenever necessary.

**Conventional measuring instrument**

<table>
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<th>Manual machine</th>
<th>Repurchase</th>
<th>CNC machine</th>
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**RONDCOM NEX 100 and NEX 200/300 series**

- **Upgrade can be performed at the site.**

**Automatic lubrication function mounted on Z-axis column**

Almost maintenance-free by automatic lubrication to column.

**Full-covered main body and column**

Minimization of effect of disturbance from air-conditioner and others by functional design.

**ACCTee Integrated Analysis Software**

Innovative approach to measurement with new concept. All-in-one software for measurement and analysis based on electronic form system.

**Rust proof by adopting SUS table**

Adopting SUS for the table frees from rust. Unnecessity of oil coating. Maintenance-free.

**Extension of centering stroke**

Extend the centering stroke to ±5 mm by extending the table diameter to Φ235 mm.

**Spiral cylindricity measuring function**

Spiral cylindricity measurement by combining table rotation with rectilinear movement. Unnecessity of Z positioning saves 30% of cylindricity measurement time compared to conventional manner.

**Table Rotating Type: CNC**

Patented

**CNC machine**

**Manual machine**

**RONDCOM NEX DX type**

**Weight saving and high rigidity by employing ceramics for R-axis arm**

The linear expansion coefficient of ceramic is smaller and weighs half of iron but the material is harder. Its weight is reduced but higher in rigidity and additionally it is hardly affected by changes in environmental temperature.

**Equipped optical linear scale in Z-axis column**

In case of measurement using tilt adjusting function, it is not necessary to set up the measuring height.

**Printer with drawer mechanism.**

**Spiral cylindricity measuring function**

Spiral cylindricity measurement by combining table rotation with rectilinear movement. Unnecessity of Z positioning saves 30% of cylindricity measurement time compared to conventional manner.