

A fully automated machine with highest-level accuracy that can greatly improve productivity and efficiency.

- The turntable with automatic centering and leveling function is equipped as standard, which frees operators from manual centering and leveling operations.
- Automatic control of holder arm posture (vertical/horizontal) and the rotation feature of the detector (rotates in 1° increments in the range of 0 to 270°) enables continuous measurement of various feature combinations, such as OD/ID and/or top/bottom plane measurements.
- A Mitutoyo linear scale is used in the X-axis drive unit to directly detect the position of the drive unit. It guarantees the highly precise positioning vital for automatic measurement.
- A roughness detector (optional) is supported.

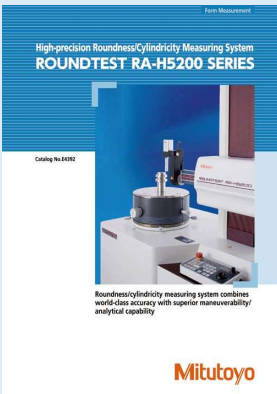
Roundtest RA-H5200 PLUS SERIES 211 — Roundness/Cylindricity Measuring System



RA-H5200AS PLUS
with side table

SPECIFICATIONS

Model No.		RA-H5200AS PLUS	RA-H5200AH PLUS
Turntable	Rotational accuracy (JIS B 7451-1997)	(0.02 + 3.5H/10000) μm H: Probing height (mm)	
	Radial direction	(0.02 + 3.5X/10000) μm X: Distance from the center of rotation (mm)	
	Axial direction	(0.02 + 3.5X/10000) μm X: Distance from the center of rotation (mm)	
Maximum loading mass		80 kg (On auto-centering: 65 kg)	
Maximum probing diameter		ø356 mm	
Vertical movement (Z-axis column unit)	Vertical travel	350 mm	550 mm
X axis	Travel range	225 mm (-25 mm to +200 mm from the rotation center)	
Detector	Measuring range	Standard	±400 μm/±40 μm/±4 μm
		Tracking	±5 mm



Refer to the Roundtest RA-H5200 Series Brochure (E4392) for more details.

The best accuracy achieved in the class of large cylindricity measuring machine.

- Loading capacity is 350 kg, and the highest rotational accuracy in the class is achieved. Besides roundness and cylindricity, the flatness can be measured in high accuracy. The workpiece that requires high accuracy measurement such as large and heavy cylindrical parts can be measurement.
- For the ID measurement of a deep hole, such as a main shaft of machine tool, a deep hole measuring unit (specially made, without CNC functions) is available.
- A Mitutoyo linear scale is used in the X-axis drive unit to directly detect the position of the drive unit. It guarantees the highly precise positioning vital for automatic measurement.

Roundtest Extreme RA-6000 CNC SERIES 211 — CNC Roundness/Cylindricity Measuring System



RA-6000 CNC

SPECIFICATIONS

Model No.		RA-6000 CNC
Turntable	Rotational accuracy *1*2 (JIS B 7451-1997)	(0.05 + 6H/10000) μm H: Probing height (mm)
	Radial direction	(0.05 + 6X/10000) μm X: Distance from the center of rotation (mm)
	Axial direction	(0.05 + 6X/10000) μm X: Distance from the center of rotation (mm)
Maximum loading mass		350 kg
Maximum probing diameter		ø880 mm
Vertical movement (Z-axis column unit)	Vertical travel	1050 mm
X axis	Travel range	465 mm (-25 mm travel available from the rotation center)
Detector	Measuring range	±400 μm

*1 The temperature at which the accuracy can be guaranteed is 20 °C.

*2 The rotational accuracy has been obtained when load is applied to the rotation center.