

Roundtest RA-2200

Series 211 - Form Measuring Instrument

All models are equipped with a highly accurate turntable that enables simple and accurate centering and levelling of the workpiece, which account for the majority of the essential setup work for e.g. measuring roundness/cylindricity.

Wide variety of models available to suit any application.

- RA-2200AS/AH

The models are supplied as standard with an automatic centering and leveling turntable, freeing the operator from the centering and leveling task.

- RA-2200DS/DH

The models are supplied as standard with a navigation function that quickly and simply guides the operator through the centering and levelling task, as though the task were being performed by an expert.

Highly accurate and easy-to-use turntable

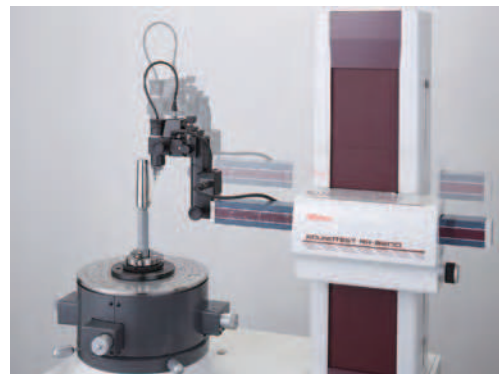
With extremely high rotational accuracy, both in the radial and axial directions, the turntable allows high accuracy flatness testing to be performed in addition to roundness and cylindricity measurements.

Incorporating an Automatic Adjustment Table (AAT), the top-of-the-line **RA-2200AS/AH** models relieve the operator of workpiece centering and levelling.

A guidance system (DAT) is incorporated into the turntables on the **RA-2200DS/DH** models to help the operator perform manual centering and levelling smoothly and simply.



RA-2200



Specifications

Rotational accuracy radial	(0,02+3,5H/10000) μm H : Measuring height with reference to turntable surface (mm) JIS B7451-1997
Rotational accuracy axial	(0,02+3,5X/10000) μm X : Radial distance with reference to rotational center (mm)
Rotational speed	2, 4, 6, 10 rpm
Max. probing diameter	300 mm
Max. workpiece diameter	580 mm
Max. turntable loading	30 kg

Vertical column (Z-axis)

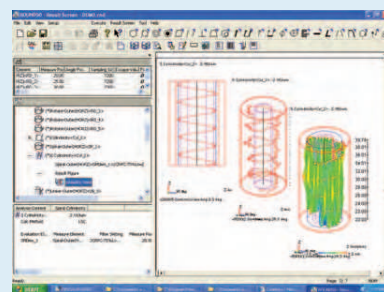
Straightness (over narrow range)	0,10 $\mu\text{m}/100 \text{ mm}$
Straightness (over wide range)	DS: 0,15 $\mu\text{m}/300 \text{ mm}$ - DH : 0,25 $\mu\text{m}/500 \text{ mm}$
Parallelism with rotation center	DS: 0,7 $\mu\text{m}/300 \text{ mm}$ - DH: 1,2 $\mu\text{m}/500 \text{ mm}$
Positioning speed	Max. 50 mm/s (Measurement : 0,5, 1, 2, 5 mm/s)
Max. probing height	DS: 300 mm - DH : 500 mm
Max. probing depth	over $\phi 32$: 85 mm (with standard stylus), over $\phi 7$: 50 mm (with standard stylus)

Horizontal arm (X-axis)

Straightness	0,7 $\mu\text{m}/150 \text{ mm}$
Perpendicularity to rotation center	1 $\mu\text{m}/150 \text{ mm}$
Traverse range	175 mm (-25 mm to 150 mm)
Positioning speed	Max. 30 mm/s (Measurement 0,5, 1, 2, 5 mm/s)
Stylus	$\phi 1,6 \text{ mm}$ tungsten carbide
Air pressure	0.39 MPa
Air consumption	30L/min. (standard state)
Measuring force	10-50mN (5-level switching)
Measuring range	$\pm 400 \mu\text{m} \pm 40 \mu\text{m} \pm 4 \mu\text{m}$ ($\pm 5 \text{ mm}$: tracking range)

Power supply	100-240 VAC, 50/60 Hz
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Mass	180 kg (DS main unit), 200 kg (DH main unit)
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ROUNDPAK

Simple to operate even with a full set of parameters and analysis functions.