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Press information

Flexible and highly accurate measuring of form and position deviation: MITUTOYO Roundtest RA-2200

Form measuring instruments made by metrology specialists MITUTOYO are known to be amongst the most accurate, reliable and easy-to-use on the market. This holds especially true for the highly versatile model Roundtest RA-2200 that features full motorisation on all axes.

Neuss, March 2016. Form deviation measuring is at the heart of quality control in branches that manufacture turning parts, for instance vehicle and engine manufacturing, mechanical engineering, power plant technology and many more. Mitutoyo, one of the world's leading precision measuring instruments manufacturers, boasts some of the world's most sophisticated form measuring machines. Their comprehensive range of models offers exact configuration for accurately measuring rotationally symmetrical workpieces.

One of them is named Roundtest RA-2200, an outstandingly versatile device that boasts full motorisation on all axes. This allround instrument, which is available in various models, is especially designed for automatic series inspection and serves for quickly and reliably determining deviations of form and position. Both types offer high accuracy even at high positioning speeds and have a column drive height of 300 mm (type S) or 500 mm (type H) for handling larger workpieces.

As opposed to the DS/DH variant featuring a Digimatic Adjustment Table (DAT) the Roundtest RA-2200AS/AH models are equipped with an automatic centering and levelling turntable, which renders a manual centering and levelling unnecessary. The table provides high rotational accuracy (radial $0.02+3.5H/10000 \mu\text{m}$; axial $0.02+3.5X/10000 \mu\text{m}$), enabling the system to measure form and position deviations at a level that suits any application.

The powerful and extremely user-friendly MITUTOYO Roundpak Software that comes with the RA-2200 offers measurement evaluation and reporting in one program and allows simple and quick creation of part programs. It automatically triggers re-measurement whenever a workpieces is determined to be beyond tolerance values. The software can execute different processing by judgment of the measurement data. Results can be displayed in a 3D view or a clearly arranged list.