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Press information

Big technology for large workpieces: the new form measuring instrument Roundtest RA-6000CNC

Top accuracy, easy use and outstanding quality are what makes the form measuring instruments made by MITUTOYO ideal devices for reliable quality assurance. Now the Japanese manufacturer introduces a new high-accuracy roundness tester for extra-large and heavy workpieces by name of Roundtest RA-6000CNC.

Neuss, March 2017. Wherever high precision and top quality is required in form measuring, the MITUTOYO instruments are at the very fore. Now the Japanese premium brand adds an all-new roundform and cylindricity tester to the product portfolio: The new model named Roundtest RA-6000CNC is designed for measuring very large and heavy workpieces at high accuracy – a roundness/cylindricity measuring system developed to combine world-class accuracy with high maneuverability/analytical capability. The fully automatic CNC form measuring does not only reliably avoid operator errors but also save a lot of time – and as a consequence: money.

The new model boasts a huge measuring range in height of no less than 1050 mm for long workpieces like large crankshafts and spindles or long shafts. A highly accurate, highly rigid turntable has been achieved through exceptional manufacturing accuracy of the critical components, in addition to a high-accuracy air bearing that provides superior rigidity. The resulting rotational accuracy, the heart of the roundness/cylindricity measuring system, is world-class at $(0.05+6H/10000)\mu\text{m}$.

The high loading capacity of enormous 350 kg allows for measuring workpieces of practically all branches, even such with very large diameters like big bearings. The system is supplied with the Automatic Adjustment Table (A.A.T.) with fully-automatic positioning and leveling function as a standard, freeing the operator from the task of centering and leveling the workpiece. High-precision glass encoders are used to drastically reduce positioning errors, a high travel speed in all axes contributes greatly to reducing the total measurement time from workpiece setting to workpiece measurement.

The system is operated by the powerful and easy-to-use ROUNDPAK v7.4 software that offers part programming as well as single measurement functions.