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Press information

Robust, precise and made-to-last: the new generation of MITUTOYO dial test indicators

MITUTOYO, the manufacturer of precision dimensional measuring instruments, refresh their portfolio of lever type dial test indicators by a new generation. The new instruments boast enhanced sturdiness, better readability and higher ease of use. They come in a lineup of four different dial orientations on the frame and with a large choice of styli.

Neuss, March 2017. The lever type dial test indicators by the Japanese measuring instruments manufacturer MITUTOYO are well-renowned for their high accuracy, their excellent quality and their robustness. They serve for measurements in a jig, on a granite plate or a bench centre of e.g. axial or circular runout, straightness and parallelism. Setting up workpieces on machine tools and surface plates is a quick and easy task with the Mitutoyo dial test indicators. Typical tasks are aligning a flat surface or a precision vise with a machine axis or an axis of a hole bore with a spindle axis.

Now the metrology specialists launch an all-new and vastly improved generation of their tried and tested dial test indicators. The accuracy specification of the new series is now compliant to the new ISO 9493, the latest standard in Europe. The new instruments boast even better usability and enhanced ruggedness for everyday use. For this purpose, the inner design has been newly constructed, resulting – amongst others – in a higher gear train stability and an improved stylus bearing screw. The new model features an easy-to-read, glare-free crystal that, additionally, is treated with a dirt and scratch resistant multi-layer coating. The O-ring seal on the bezel prevents dust and oil from penetrating to the dial face. It also has the effect of providing smooth rotation.

The corresponding stylus length is now specified on the dial face. This simplifies the replacement in the case of a broken stylus. For quick and easy tolerance judgement optional limit hands can be positioned on the indicator's bezel. The new generation is equipped with a 8 mm stem and dovetails for quick, safe and stable clamping. For use with abrasive or magnetic materials the MITUTOYO portfolio also comprises models equipped with a non-magnetic and non-conductive ruby contact point. Jewelled bearings and precision gears and pinions ensure smooth, accurate movement and quick response. Plus, the new mechanical components prevent backlash of the contact point holder.

The new Mitutoyo lever type dial test indicators come in vertical, horizontal, parallel and horizontal with tilted face dial orientation and in a choice of 0,01 mm, 2 µm or 1 µm graduation.

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