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## Press information

### **World-class accuracy non-contact measuring: the new Mitutoyo LSM-6902H laser scan micrometer**

Wherever non-contact measurement of rolling contact bearings, pin gages or plug gages at a high accuracy is required, the Mitutoyo laser scan micrometers are at the very fore. Now Mitutoyo introduces a new model by name of LSM-6902H that boasts one of the worldwide best measurement accuracies in its measurement range.

**Neuss, March 2018.** Hardly any manufacturer offers as wide and versatile a range of laser scan micrometers as Mitutoyo. They feature a very high scanning rate which allows inspection of small workpieces even if they are fragile, at a high temperature, in motion or vibrating. Now the Japanese premium measuring instruments manufacturer launches an all new ultra-high-accuracy type for pin and plug gage measurements. The newly developed LSM-6902H replaces the current LSM-902/6900 model and offers a measuring range of 0.1-25 mm. The use of this world-class laser scan micrometer along with the optional adjustable workstage allows high-accuracy measurement inspection of the outside diameter of pin gages or plug gages

In its measuring range, the LSM-6902H provides a world-leading accuracy with a linearity of  $\pm 0.5 \mu\text{m}$  over the entire measurement range and  $\pm(0.3+0.1\Delta D) \mu\text{m}$  in the narrow range. Repeatability is as high as  $0.045 \mu\text{m}$  over the whole range (25 mm diameter) and an impressive  $0.03 \mu\text{m}$  in the middle range (10 mm diameter). The new device's scanning rate was raised to 1,600/sec, which means double speed compared to the predecessor. The specified high accuracy over the entire measurement range is certified by the "Traceability System to the International Standard" which Mitutoyo, as a leading manufacturer of precision measurement tools and instruments, has established within its business practises.

As many other Mitutoyo laser scan micrometers, the new LSM-6902H is delivered with an easy to use and read display unit as a standard. It is also capable of data output to an external device such as a personal computer from the display unit. Measurement data can be stored easily in Microsoft Excel cells by using the powerful free Mitutoyo USB Input Tool software.