

Press release

**ETALON presents a new measurement device for fast, easy and highly accurate calibration of small to medium-sized machine tools**

Braunschweig/Germany, May 2010. After setting new standards in the calibration of machine tools and coordinate measurement machines with the active LaserTRACER system, ETALON extends its product range with a LaserTRACER system for small and middle-sized machine tools: The LaserTRACER-MT

The procedure developed by ETALON for the LaserTRACER is solely based on displacement measurements, the so-called multilateration. It enables the user to determine geometric deviations fast, easily and with high accuracy. The software from ETALON generates reports according to standards or error maps for machine controllers like Siemens, Fanuc, Heidenhain or Fidia, which enables significant increase in the accuracy of the machines.

Just like the active LaserTRACER system, the LaserTRACER-MT (MT: Mechanical Tracking) employs a high resolution laser interferometer to measure distance changes between two reference points, providing ultimate accuracy. Special reflectors are built in the center of the spherical joints, protected from dirt and damage. By means of a multi-telescopic stage, the LaserTRACER-MT100 has a working range of 300 mm – 1000 mm, making it ideal for the measurement of small and medium-sized machines with axis range up to 1500 mm. Like in the active system, in the LaserTRACER-MT the stabilized HeNe Laser beam is transmitted via an optical fiber to the system. This allows a very compact design while avoiding thermal influences on the measurement system. Moreover, it makes possible to achieve a total weight of the moving system under 2200 g!

All functionalities of the active LaserTRACER can be used with the new system; therefore all software options from Etalon are available to the LaserTRACER-MT, too:

- Volumetric calibration of Cartesian machines (all 6 component deviations including squareness)
- Calibration of rotary axes (all 6 component deviations and squareness)
- Machine checking according to ISO 230-2, -6 (parallel to the axes and diagonal lines)
- Circular test according to ISO 230-4

## **Etalon AG**

### Contact:

Daniel Raschke

Telephone: +49 (0)531 / 592 – 1974

E-Mail: [info@etalon-ag.com](mailto:info@etalon-ag.com)

### Company Adress:

Bundesallee 100

38116 Braunschweig

Germany

[www.etalon-ag.com](http://www.etalon-ag.com)

### About ETALON:

ETALON AG is specialized in geometric calibration, monitoring and accuracy enhancement of measuring machines and machine tools. The company, located in Braunschweig (engl. Brunswick), was founded in 2004 as a spin-off from the Physikalisch Technischen Bundesanstalt (PTB), the German national metrology institute. ETALON develops innovative approaches with user-friendly solutions. Scientific know-how, standard requirements and metrology experience all integrated in customized software. Numerous well-kwon customers in the machining and metrology industry, automobile and research field already count on the ETALON Technology.