



Mitutoyo Europe GmbH
Borsigstraße 8-10
41469 Neuss

T +49 (0)2137 102-248
F +49 (0)2137 8685
media@mitutoyo.eu
www.mitutoyo.eu

Press information

High accuracy laser scanner for coordinate measuring machines: the SurfaceMeasure 201FS

Laser scanners additionally boost coordinate measuring machines' versatility. By launching the new SurfaceMeasure 201FS adopting the flying spot principle MITUTOYO could vastly reduce the scanning error to a fraction compared to conventional systems.

Neuss, March 2017. Coordinate measuring machines made by the Japanese premium manufacturer MITUTOYO are amongst the best and most accurate the market offers. Equipped with a SurfaceMeasure laser scanning probe the MITUTOYO coordinate measuring machines deliver fast 3D measuring at high accuracy.

Now the Japanese premium metrology experts launch an all-new laser scanner by name of SurfaceMeasure 201FS. The new scanner is compatible with almost all MITUTOYO CNC coordinate measuring machines. As opposed to other types of the MITUTOYO SurfaceMeasure line-up, the SM201FS type adopts a highly advanced technology that makes for an outstanding accuracy of no more than 1.8 µm.

While existing models utilize a line laser expanded by a role lens for fast measuring, the new SM201FS includes an advanced flying spot technology with a smaller beam spot diameter resulting in drastic noise reduction and higher accuracy. This qualifies the method for measuring workpieces manufactured to very tight tolerances. A swinging mirror deflects a laser, guiding it over the workpiece to be measured at an impressive acquisition rate. This method boasts extremely low reflective noise and is, thus, perfectly suitable for high-accuracy glossy surfaces.

Just like all scanners of the SurfaceMeasure series, SM201FS is compatible with the sophisticated, powerful and user-friendly MITUTOYO MSURF v5.1 Software. Apart from easy and effective point cloud analysis of the workpiece, the program offers measurement path generation from CAD data, path optimisation, automatic feature and edge measurement path. Plus, the user profits from 3D colour mapping comparison to the CAD data. The latter is also available as free viewer. So any third party can also profit from it.