

SurfaceMeasure 201FS

The latest laser scanning technology
for superb accuracy



COORDINATE MEASURING MACHINES



SurfaceMeasure 201FS – High Accuracy Flying Spot Laser Scanner

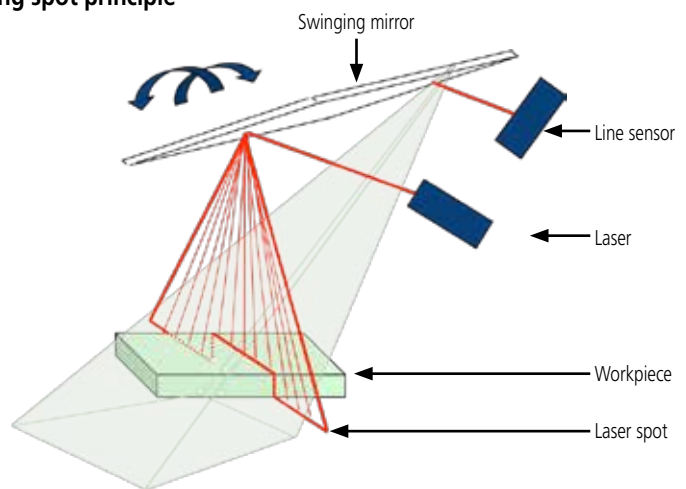
Top-of-the-line 3D laser scanning technology, reducing the scanning error to a fraction compared to conventional systems. Profit from the outstanding accuracy the new Mitutoyo SM201FS Laser Scanner offers!

While existing models utilise a line laser expanded by a role lens for fast measuring, the new SM201FS adopts 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.

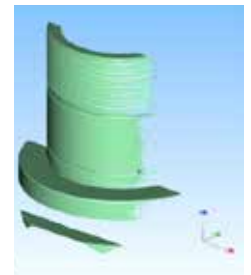
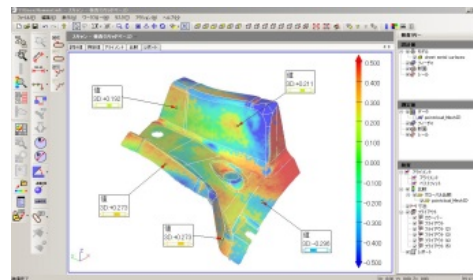
- Flying spot technology
- High accuracy: 1,8 µm scanning error
- Very low reflection noise: suitable for high-accuracy glossy surfaces
- Compatible with most Mitutoyo CMMs

Specifications	SM201-FS
Laser type	Flying Spot
Working distance	57,5 mm
Measuring range	15 mm
Scan width	19 mm
Scanning error	1,8 µm
Number of pts / line	1000
Acquisition rate	25.000 pts / sec
Dimensions: Width	92,5 mm
Depth	177,0 mm
Height	90,0 mm
Weight	500 g
Laser class	Class 2
λ	670 nm
Accuracy temperature	20 ± 2°C

Flying spot principle



Point cloud analysis with MSURF*



* Compatible with MSURF V5.1 or higher

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