

MarSurf M 400. Mobile Surface Measuring Instrument

MarSurf M 400. The best of the mobile devices

Both in the measuring room and increasingly also in the production area, there is a need for surface evaluations requiring skidless tracing.

This generally requires more highly skilled operators, more time and more adjustment work.

Within the "mobile surface metrology" range, MarSurf M 400 provides the necessary range of functions, while at the same time being quick and easy to use.

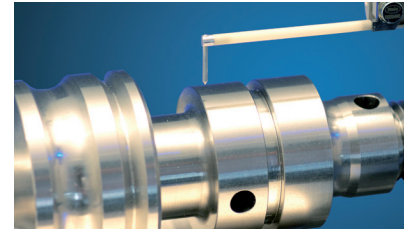
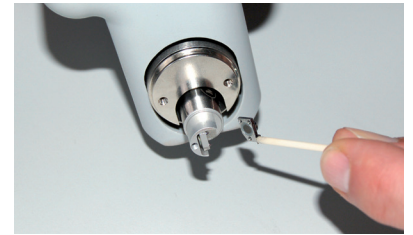
- Mobile and stationary measuring instrument
- Roughness and waviness measurements
- Traversing lengths up to 26 mm
- Over 50 R, W and P surface parameters
- Automatic choice of cut-off and traversing length in accordance with international standards
- Dynamic calibration function
- Cable and Bluetooth connection between drive unit and evaluation instrument (4 m)
- Magnetic probe holder (breakaway probe) BFW 250
- Motorized probe zero setting (max. 7.5 mm)

Supplied with:

- MarSurf M 400 evaluation instrument
- MarSurf SD 26 drive unit including BFW 250 probe system
- Standard probe arm (6852403)
- 1 roll of thermal paper
- Wide-range power supply unit with 3 adapters
- 2 x USB cables (for connecting to the PC and the M 400)
- Operating instructions
- Case



BFW probe system with magnetic probe arm holder



Technical Data

Measuring principle	Stylus method
Probe	BFW skidless system
Measuring range	+/-250 µm (up to +/-750 µm with 3x probe arm length)
Profile resolution	Measuring range +/-250 µm: 8 nm Measuring range +/-25 µm: 0.8 nm
Filter according to ISO/JIS	Gaussian filter as per ISO 11562 Filter as per ISO 13565
Cutoff f_c according to ISO/JIS	0,25 mm, 0,8 mm, 2,5 mm, automatical, variable
Number n of sampling length according to ISO/JIS	1-5
Contacting speeds	0,2 mm/s; 1,0 mm/s
Measuring force	0,7 mN
Surface parameters	Over 50 surface parameters for R, P and W profiles according to current ISO/JIS or MOTIF standards (ISO 12085)

Accessories

Measuring stand

- ST-D, ST-F and ST-G
- Holder on measuring stand

Other accessories

- CT 120 XY table, parallel vise, V-block
- Assorted probe arms for the BFW probe system

Applications

Machine building

Bearings, shafts, racks, valves

Automotive industry

Steering, brake system, gearbox, crankshaft, camshaft, cylinder head, cylinder block, turbocharger

Steel industry

Measurement of sheet metal surfaces
Measurement of roller surface

Medicine

Surface roughness measurement for hip and knee endoprostheses

Aerospace

Turbine components

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