

Product information

Mobile surface measuring instrument MarSurf M 510 MiniProfiler

Product features

Small measuring device for a large range of applications

- Smallest skidless probe system on the market
- Available in tracing length 15 mm, 50 mm und 75 mm
- Vibration resistant -> can be used in the production environment and machining centers
- Compact design
- Mobile and convenient testing of P, R and W parameters with just one device
- Motorized lift-off stylus tip
- Intuitive control of the free tracing system via PC software
- Connection via USB interface -> plug in MiniProfiler, start software, and go!
- Software operable with Windows 10 and 11
- Save measurement programs
- Only supplier on the market for Wsa standards with factory or NPL certificate
- Optional magnetic adhesion to the surface
- Additional holder for mounting on the measuring stand
- Currently the only measuring system on the market for the parameter Wsa

Application

Mechanical engineering

Bearings, shafts, racks, valves, various components from the engineering and precision mechanics industries

Automotive

Steering, brake systems, transmissions, crankshafts, camshafts, cylinder heads, cylinder blocks, turbochargers

Medical

Roughness measurement on hip and knee endoprotheses

Aerospace

Turbine components

Optics

Diverse optical components



Item no.: **6910310**

Technical data

End of traversing length (in X)	15.0 mm
Traversing length (Lt)	till 15 mm
Measuring principle	Tactile skidless probe system
Measuring force (N)	0,00075 N
Probe tip radius	2 µm
Filter according to ISO/JIS	EN DIN ISO 4287, EN DIN ISO 13565, Part 1 and 2, DIN EN ISO 21920-2: 2021, EN DIN ISO 16610-21 (Gaussian filter), EN DIN ISO 13565 Part 1 (specific filter), EN DIN ISO 16610-31 (robust Gaussian filter)
Cutoff lc according to ISO/JIS	0,08 mm, 0,25 mm, 0,8 mm, 2,5 mm, 8,0 mm, variable
Number n of sampling length according to ISO/JIS	5
Measuring speed	0.1 mm/s to 2 mm/s
positioning speed X-axis max.	2 mm/s
Positioning speed X axis	till 2 mm/s
Surface parameters	Rt, Ra, Rq, Rz, Rp, Rv, Rsk, Rku, Rsm, Rc, Rpc, Rdq, Rmax, Rlq, Rda, Rla, Pt, Rk, Mr1, Mr2, Rpk, Rvk, Rpkx, Rvkx, a1, a2, Wt, Wa, Wca, Wq, Wz, Wp, Wv, Wsk, Wku, Wdq, Wmax, Wlq, Wda, Wla, Rmr30, Rmr60, Rmr90, sSt(g), sSt(f), Wsa(1-5), Wa0.8_05, Wa0.8_06, Wa0.8_07, Wa0.8_08, Wa0.8_09, Rpq, Rmq, Rvq, Pmr60
Data interface	USB A, 4x USB 3.1 Gen. 2, Display port, HDMI, wireless
Probe	induktives Freitastsystem
Operating temp. range	5 - 35°C
Weight (gross)	0.2 KG
Weight drive unit	150 g
Dimensions (L x W x H) for drive unit in mm.	52 x 28 x 40
Other functions	other standards: Daimler MBN 31007, SEP 1941
Stylus	2 µm
Measuring range mm	1 mm

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Accessories

Order no.	Designation	Product type
4416000	Measuring tripod with magnetic base	815 MA
6710803	Measuring stand 300 mm with cast iron base	ST-D
6710806	Measuring stand 300 mm with granite plate	ST-F
6710807	Measuring stand 300 mm with granite plate and T-slot	ST-G
6710401	V-block	PP
6710529	XY table	CT 120
6710604	Parallel vice	PPS