Product information

Mobile roughness measuring instrument MarSurf M 310 PC

Product features

MarSurf M 310 PC

Clever combination: The MarSurf M 310 & MarWin

The new MarSurf M 310 can be used as a drive unit together with MarWin Easy Roughness software. It can be easily connected to the computer by cable or wireless technology. This use combines the handiness of the Mahr M 310 with the wider range of functions of the software. It allows you to evaluate even more parameters and optimally analyze your measuring results without compromising on flexibility and ease of use. The PC-based instrument delivers all common thread parameters and profiles in accordance with international standards, both in the measuring room and in production. MarSurf M 310 PC from Mahr stands for innovative roughness evaluation software.

Application

Mechanical engineering

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

Automotive

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

Medicine

Surface roughness measurement for hip and knee endoprostheses

Aerospace

Turbine components

Optics

Various optical components

Item no.: **6910295**

Technical data

Traversing length (Lt)	till 15 mm
Measuring principle	Stylus method
Measuring force (N)	0,00075 N
Probe tip radius	2 µm
Filter according to ISO/JIS	Gaussian filter as per ISO 16610-21 (formerly ISO 11562), special filter as per DIN EN ISO 13565-1, Ls filter as per DIN EN ISO 3274 (can be switched off)
Cutoff lc according to ISO/JIS	0,25 mm, 0,8 mm, 2,5 mm, automatic filter detection, variable
Short stroke under ISO/JIS	selectable
Number n of sampling length according to ISO/JIS	selectable: 1 to 16
Measuring speed	0.5 mm/s to 1 mm/s
Positioning speed X-axis min.	0.5 mm/s
positioning speed X-axis max.	1 mm/s
Positioning speed X axis	0.5 - 1 mm/s
Surface parameters	Over 80 parameters for R-, P- and W-profiles according to current ISO/JIS or MOTIF standards (ISO 12085)
Data interface	USB A, 4x USB 3.1 Gen. 2, Display port, HDMI, wireless
Probe	Inductive skidded probe
Weight (gross)	44.44 KG
Other functions	Sperre/Codewortschutz, Datum/Uhrzeit
Traversing length according ISO 12085 (MOTIF)	1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm

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Accessories

Order no.	Designation	Product type
4102603	Data cable USB bidirectional	DK-U1
6850540	PHT pick-up extension 80 mm	PHT (80 mm)
6111520	Standard probe 2 µm	PHT 6-350
6111526	Standard probe 5 µm	PHT 6-350/ 5µm
6111527	Standard probe 10 µm	PHT 6-350/ 10µm
6111521	Probe for bores with a dia. larger than 3 mm	PHT 3-350
6111524	Probe for grooves	PHT 11-100
6111525	Probe for concave and convex surfaces	PHTR-100
6111522	Probe for gear tooth flanks	PHTF 0.5-100
6111523	Probe for metal sheets	PT 150
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
2247086	Adjustable mounting bracket to connect to 814 SR	814 Sh
4426100	Digital height gage	814 SR
4426101	Digital height gage	814 SR
6710401	V-block	PP
6710604	Parallel vice	PPS
6710529	XY table	CT 120
4246819	Set of miniature precision vises	109 PS
6820420	Roughness standard with Mahr calibration certificate, profile depth 10 µm	PRN 10
4413000	Measuring tripod with	815 GN