



Mahr | MarSurf® M 310



COMPLETE METALWORKING SOLUTIONS
(800) 991-4225 www.ahbinc.com
ISO Certified customerservice@ahbinc.com

Mobile Roughness Measurement - Guaranteed Success!



The new mobile roughness measuring instrument MarSurf M 310, has easy operation and a robust design.

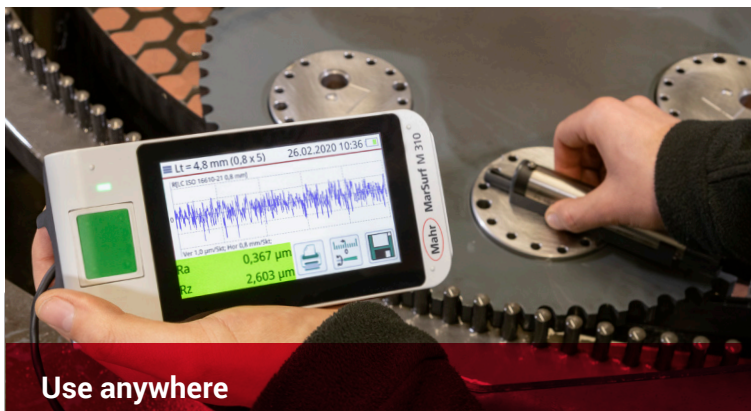
We are used to accessing our data with our smartphone anytime and anywhere. Why shouldn't this also be possible with a measuring device? With the new MarSurf M 310, Mahr offers you exactly that. A flexible mobile measuring device for recording and analysis of measured data. With its easy operation and robust design, the MarSurf M 310 is ideally suited for use in production environments by machinists generally not skilled in precision measurements.

Print directly,
document easily

Measurement results in paper form is sometimes the fastest way for simple data transfer or documentation, even in the digital age. In this case, a mobile printer is the perfect complement to your MarSurf M 310: it allows you to save the results of your work directly on thermal paper. If you prefer standard letter sized paper, no problem. The MarSurf M 310 can also be connected to most standard desktop printers with a USB cable.

Features

- Simple operation concept for intuitive handling without training
- Pre-programmed functionalities and automatic filter selection (auto-cutoff) during measurement - no specialist knowledge required
- Large, bright display for easy operation and maximum overview
- Transmission of measurement protocols and data optionally via Bluetooth or cable
- Easy traceability of measurement results
- Optional thermal printer for printing results and profiles
- Wide range of accessories offers you maximum flexibility
- Well-protected against dirt and dust for use in almost any environment
- Integrated calibration standard is always available for checking



Use anywhere

M 310 incorporates a removeable remote drive to increase measurement versatility.

MarSurf M 310 set includes: Measuring device including drive unit, standard probe PHT6-350, factory calibration certificate, integrated height adjustment, probe protection, battery charger, operating instructions, carrying bag with shoulder strap, USB cable, extension cable for drive unit, hand held V-block with height adjustment, and screwdriver

Technical Data

Order No.	6910260	6910265	6910267	6910268
Type	M 310		M 310 with printer	
Parameters	A1, A2, Ar, CF, CL, CR, Mr1, Mr2, R, R3z, RPc, RS, RSk, RSm, Ra, Rk, Rmax, Rmr (tp (JIS, ASME) is equivalent to Rmr), Rp, RpA (ASME), Rpk, Rpm, Rpm (ASME), Rq, Rt, Rvk, Rx, Rz, Rz (JIS), Rz (Ry (JIS) is equivalent to Rz), Vo			
Measuring Units	mm/in			
Stylus	2 µm	5 µm	2 µm	5 µm
Calibration Function	Dynamic; Ra, Rz, Rsm			
Storage Capacity	Min. 3900 profiles, min. 500,000 results, min. 1500 PDF records, expandable to 32 GB with Micro SD card			
Languages	Available in 17 languages			
Other	Lock/password protected, date/time			
Data Interface	USB A, USB B, MarConnect (bidirectional), Micro SD slot for SD / SDHC cards up to 32 GB			
System of Protection	IP 40			
Rechargeable Batteries	Lithium-ion battery, min 1200 measurements			
Wide Range Power Supply	100 V to 264 V			
H x W x D	160 mm x 77 mm x 50 mm			
Weight	4.7 kg		5.7 kg	
Measuring Principle	Stylus method			
Probe	Inductive skidded probe			
Measuring Range	0.350 mm			
Profile Resolution	8 nm			
Filter According to ISO/JIS	Gaussian filter as per ISO 16610-21 (formerly ISO 11562), special filter as per DIN EN ISO 13565-1, Lambda s filter as per DIN EN ISO 3274 (can be switched off)			
Cutoff lc According to ISO/JIS/ASME	0.25 mm, 0.8 mm, 2.5 mm, automatic filter detection, variable			
Number n of Sampling Length According to ISO/JIS/ASME	Selectable: 1 to 16			
Short Stroke Under ISO/JIS/ASME	Selectable			
Traversing Length Lt According ISO/JIS/ASME	1.5 mm, 4.8 mm, 15 mm, N x Lc, variable, automatic			
Traversing Length According ISO 12085 (MOTIF)	1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm			
Evaluation Length According to ISO/JIS/ASME	1.25 mm, 4.0 mm, 12.5 mm			
Measuring Force	0.00075 N			



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