Product information

Mobile roughness measuring instrument MarSurf M 310 with printer

Product features Mobile roughness measurement

- guaranteed success!

- Compact roughness measuring instrument for mobile use
- Simple and intuitive to use: as easy as using a smartphone
- Large, illuminated 4.3" TFT touch display
- Adjustable display
- Micro USB interface for remote control using ASCII commands, e.g. using software for statistical process control
- USB-A interface for connection of e.g. a USB Wireless adapter or the USB/ wireless printer
- Wireless transmission of measurement results via wireless stick to the free MarCom software
- Remote start of measurement via cable or wireless
- Connection of a scanner for automatic start of the measuring programs or reading of protocol texts via barcode or QR code
- Specification of the intersection line C in μ m or in % of Rz for the parameters Rmr and tp
- Data backup as TXT, X3P, CSV or PDF file
- Transfer of measuring records and data optionally via cable or wireless
- IATF 16949 compliant safe traceability with MarConnect
- Print directly on mobile printer (as option or directly in set with printer)
- Create complete PDF measuring records directly in the measuring instrument
- Customer-specific comments for the PDF measuring record can be entered directly into MarSurf M 310
- Display and printout of the MRC and ADC diagram
- Storage of measuring programs (quick & easy)
- Mains-independent operation: Over 1200 measurements without having to recharge the instrument
- An all-in-one solution. Small and lightweight (approx. 500 g)
- Instrument flexibility:
 removable drive unit



Item no.: 6910267

Technical data

Measuring principleStylus methodUnit of measurementmetrisch/inchMeasuring force (N).00075Probe tip radius2 µmFilter according to ISO/JISGaussian 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 La according to ISO/JIS0.25 mm, 0.8 mm, 2,5 mm, automatic filter detection, variableShort stroke under ISO/JISSelectableNumber n of sampling length according to ISO/JISSelectable:Destitoning speed X-axis min.0.5 mm/sPositioning speed X-axis max.1 mm/sPositioning speed X-axis max.1 mm/sPositioning speed X-axis max.1 mm/sSurface parametersUSB A USB, Duplex, Micro SD slot for SD / SDHC cads up to 32 GBLanguagesGerman, English, French, Italian, Spanish, Portugese, Dutch, Swedish, Russian, Polish, Czech, Japanese, Chinese, Korean, Hungarian, Turkish, RomanianStorage capacityMin. 3900 profiles, min. 500,000 results, min. 1500 PDF measuring records, expandable to 32 GB with microSD card (320x memory capacity)ProbeInductive skidded probeCalibration functionDynamic; Ra, Rz, RsmIP protection categoryIP 40Weight (gross)2.96 KGDimensions in mm160 mm x 77 mm x 50 mmOther functionsLock/password protected, date/timeTraversing length according ISD1.25 mm, 4.0 mm, 12.5 mm		
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Dimensions in mm160 mm x 77 mm x 50 mmOther functionsLock/password protected, date/timeTraversing length according ISO 12085 (MOTIF)1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mmEvaluation lenth In according to1.25 mm, 4.0 mm, 12.5 mm	IP protection category	IP 40
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Traversing length according ISO 1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm 12085 (MOTIF) 1.25 mm, 4.0 mm, 12.5 mm	Dimensions in mm	160 mm x 77 mm x 50 mm
12085 (MOTIF) Evaluation lenth In according to 1.25 mm, 4.0 mm, 12.5 mm	Other functions	Lock/password protected, date/time
- · · · · · · · · · · · · · · · · · · ·		1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm
	Evaluation lenth In according to ISO/JIS	1.25 mm, 4.0 mm, 12.5 mm
Stylus 2 μm	Stylus	2 µm

Product information

Mobile roughness measuring instrument MarSurf M 310 with printer

- 31 thread parameters: offer the same range of functions as a laboratory instrument.
- Roughness standard stored within housing aids in reducing errors
- Quick access to your frequently used functions via the Favorites list in the display
- Automatic cutoff selection, so even non-specialists can be sure of getting the correct measuring results
- Additional versions with transverse drive unit available as MarSurf M 310 C2 or MarSurf M 310 set without probe
- Free software "MarWin Easy Roughness Viewer" for further documentation (statisics, multiple profiles and results on one page etc.) available for download on the Mahr website.

Application

- For shafts and housing components
- For large machines
- For large workpieces
- For milled and turned parts
- For ground and honed
 workpieces
- On the production line or directly on the machine, ideal for rapid testing of the surface roughness of a workpiece in or on the machine.

Technical data

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
System of protection	IP 40
Rechargeable batteries	Lithium-ion battery, 3.7 V, nominal capacity 11.6 Wh, min. 1200 measurements
Wide range power supply	100 to 264 V
Measuring range mm	0.350
Profile resolution	8 nm
Traversing length Lt according ISO/JIS	1.5 mm, 4.8 mm, 15 mm, N x Lc, variable, automatic

Dimensions

Dimensions in mm	160 mm x 77
	mm x 50 mm

Product information

Mobile roughness measuring instrument MarSurf M 310 with printer

Order no. Designation Product type 4102603 Data DK-U1 cable USB bidirectional PHT pick-up 6850540 PHT (80 mm) extension 80 mm 6111520 Standard PHT 6-350 probe 2 µm Standard 6111526 PHT 6-350/ probe 5 µm 5µm PHT 6-350/ 6111527 Standard probe 10 µm 10µm 6111521 Probe for PHT 3-350 bores with a dia. larger than 3 mm 6111524 Probe for PHT 11-100 grooves 6111525 Probe for PHTR-100 concave and convex surfaces 6111522 Probe for gear PHTF 0.5-100 tooth flanks 6111523 Probe for PT 150 metal sheets 6710803 ST-D Measuring stand 300 mm with cast iron base 6710806 Measuring ST-F stand 300 mm with granite plate 6710807 Measuring ST-G stand 300 mm with granite plate and T-slot 2247086 Adjustable 814 Sh mounting bracket to connect to 814 SR 4426100 Digital height 814 SR gage 4426101 Digital height 814 SR gage 6710401 PP V-block 6710604 Parallel vice PPS 6710529 XY table CT 120 4246819 Set of 109 PS miniature precision vises 6820420 **PRN 10** Roughness standard with Mahr calibration certificate, profile depth 10 µm

Accessories

4413000

Measuring

815 GN