Mobile Roughness Measuring Instrument MarSurf PS 10



- 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

Order no.		6910230	6910232
Product type		PS 10	
Parameters		Rpm (ASME), Rpk, Rk, Rvk, Mr1	to Rz), Rz (JIS), Rmax, Rp, RpA (ASME), , Mr2, A1, A2, Vo, Rt, RPc, Rmr (tp (JIS, , RSm, RSk, RS, CR, CF, CL, R, Ar, Rx
Stylus		2 µm	5 μm
Calibration function		,	ic; Ra, Rz, Rsm
Storage capacity			000 results, min. 250 PDF records, ex- GB with microSD card
Languages:		Russian, Polish, Czech, Japanes	n, Spanish, Portugese, Dutch, Swedish, e, Chinese, Korean, Hungarian, Turkish, Romanian
Other		Lock/password	d protected, date/time
Data interface:		USB, MarConnect (RS232), micr	roSD 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		10	0 to 264 V
H x W x D	mm	160 mm >	c 77 mm x 50 mm
Weight	kg		0.49
Measuring principle		Sty	lus method
Probe		inductive skidded probe	
Measuring range	mm		350 μm
Profile resolution			8 nm
Filter according to ISO/JIS		per DIN EN ISO 13565-1, Lambo	-21 (formerly ISO 11562), special filter as la s filter as per DIN EN ISO 3274 (can be ritched off)
Cutoff Ic according to ISO/JIS		0,25 mm, 0,8 mm, 2,5	mm, automatic filter detection
Number n of sampling length according to ISO/JIS		select	table: 1 to 16
Short stroke under ISO/JIS		S	electable
Traversing length Lt according ISO/JIS		1.5 mm, 4.8 mm, 15 n	nm, N x Lc, variable, automatic
Traversing length according ISO 12085 (MOTIF)		1 mm, 2 mm, 4 m	m, 8 mm, 12 mm, 16 mm
Evaluation lenth In according to ISO/ JIS		1.25 mm,	4.0 mm, 12.5 mm
Measuring force	N	(0.75 mN

"sMAHRtSurf" - Simple, smart and mobile

- Compact roughness measuring instrument for mobile use
- Simple and intuitive to use: As easy to use as a smart phone
- Large, illuminated 4.3" TFT touch display
- Adjustable display
- Start button also serves as the Home button for direct access to the start screen
- Data backup as TXT, X3P or PDF file
- Creation of completed PDF measuring records in the measuring device
- Customer-specific comments for the PDF measuring record are entered directly into the MarSurf PS 10
- Power supply 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
- All the measuring positions you need: horizontal, vertical, upside
- 31 surface parameters offer the same range of functions as a laboratory instrument.
- Error free operation thanks to an integrated, removable roughness standard
- Quick access to your frequently used functions via the Favorites list in the display
- Very short activation time: results available within seconds
- Automatic cutoff selection, so even non-specialists can be sure of getting the correct measuring results
- NEW: Additional version with transverse drive unit MarSurf PS 10 C2 available (article number 6910235)
- Scope of delivery:
- MarSurf PS 10 unit
- Drive unit (detachable)
- 1 standard probe conforming to standards
- Built-in rechargeable battery
- Roughness standard integrated into housing (detachable), including Mahr calibration certificate
- Probe protection
- Charger / 3 adapters
- Operating instructions
- Carry case with shoulder strap
- USB cable
- Extension cable for drive unit (length 1.2 m)
- Height adjustment (integrated)
- Software: MarCom Professional free download:www.mahr.com/ marcom(only for Mahr data cables and wireless systems with USB and RS232 interface)



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Accessories

6850540 PHT pick-up extension 80 mm 6111520 Standard probe 2 μm	DUT (OO
	DLIT (OO)
6111520 Standard probe 2 μm	PHT (80 mm)
	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
6850715 Pick-up protection with header V-block, steel	PHT-ts4
7028530 Pick-up protection header V-block, plastic	PHT-ts3
6910209 Mount MarSurf PS 10 on measuring stand ST	ST-a3
6910435 RD 18 C / PS 10 upright holder for cylindrical drive unit, Ø 8 mm	ST-a2
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 Height Measuring and Scribing Instrument	814 SR
4426101 Height Measuring and Scribing Instrument	814 SR
4102410 Data connection cable RS232C	16 EXr
4102357 Data connection cable USB	16 EXu
4102231 Transmitter	16 EWe
4102230 Receiver	e-Stick
6710401 V-block	PP
6710604 Parallel vice	PPS
6710529 XY Table	CT 120
4246819 Miniature precision vises, set	109 PS
6820420 Roughness standard with Mahr calibration certificate, profile depth 10	μm PRN 10
6820601 Geometric Standard with sinusoidal groove profile, Profiltiefe 3 μm	PGN 3
6820602 Geometric Standard with sinusoidal groove profile, Profiltiefe 1,5 μm	PGN 1
6820605 Geometric Standard with sinusoidal groove profile, Profiltiefe 10 μm	PGN 10
9027715 Mahr-calibration certificate for PGN Standard	PGN
6980102 DKD (German Calibration Service) calibration certificate for PGN Standa	ard PGN
4413000 Indicator Stand with Base	815 GN
4413001 Indicator Stand with Base	815 GN
4413005 Indicator Stand with Base	815 GN
4416000 Indicator Stand with Magnetic Base	815 MA
6299054 Evaluation Software	SW XR 20



