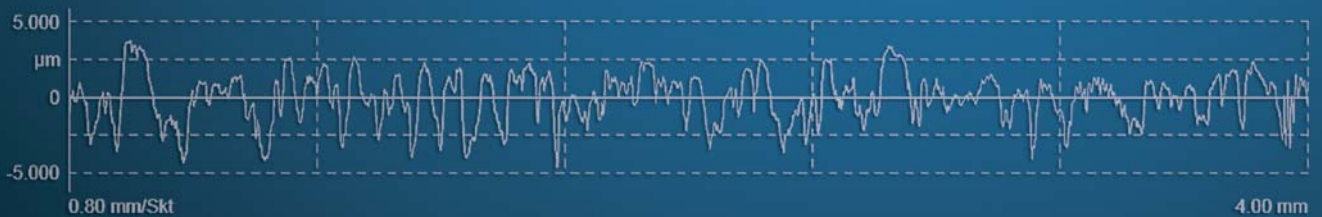


MarSurf

NEW



 **Bluetooth®**

MarSurf M 400

The best of the "mobiles"!

Easy. Fast. Innovative.

With free tracing and automatic zeroing.

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- 0 +

Mahr

EXACTLY

MarSurf M 400. The best of the "mobiles"

High performance with high mobility

Evaluation Unit MarSurf M 400



Easy. Fast. Innovative

Not only needed in the measuring room but also more and more often in the production area: Surface evaluation that requires free tracing.

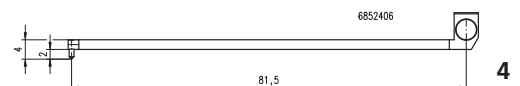
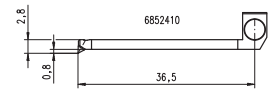
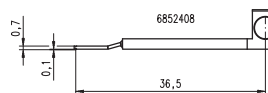
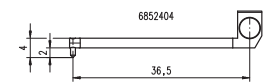
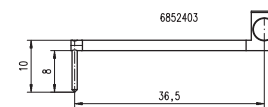
This generally means higher demands of the operator qualification, more time, more adjustments.

MarSurf M 400 offers this required performance scope in its line of mobile surface metrology - with easy and fast operation.

Drive-Unit SD 26



Pick-Up System BFW 250



Features

- **Free tracing** with high precision probe system (1)
- **Fast probe arm change** due to magnetic probe arm holder (2, 3, 4)
- **Protection from damage**
- **Only a few seconds of setting time required**
due to motorized height adjustment of the drive unit with automatic zero positioning
- **Flexible movement** due to cable-free Bluetooth connection
- **Concise, clear and easy** due to brilliant color display for the depiction of results and operator guidance
- **Mobile use** due to operation with power supply or storage battery r
- **Internationally up to date**
due to all common parameters as per ISO, JIS, ASME, many integrated languages
- **Documentation with quality** due to integrated thermo printer for printout of profile and results
- **High measuring speed** with same measuring point density
1mm/s
- 26 mm tracing length

MarSurf M 400. The best of the "mobiles"

Applications MarSurf M 400



Upside down measurement with prisma Automatic zeroing of the BFW 250



Measurement in production

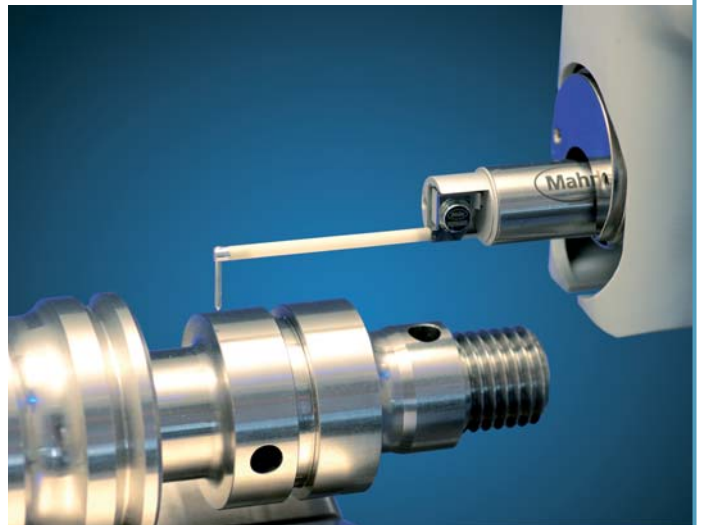


MarSurf measuring station with measuring stand ST-G

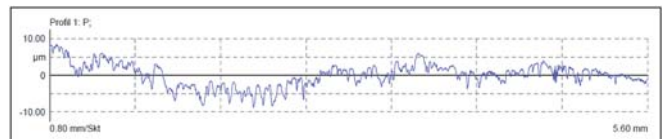
The possibility to expand the mobile surface measuring unit to a small stationary work station can be easily and quickly realized by adding only a few components from the line of MarSurf accessories.

All applications depicted here are supported with the assistant for inclination setting

The MarSurf M 400 enables the evaluation of parameters from the P, W and R profiles.



P profile



W profile



R profile



MarSurf M 400. The best of the "mobiles"

MarSurf M 400 Set



Delivery scope

- Evaluation unit MarSurf M 400
- Drive unit MarSurf SD 26 incl. probe system BFW 250
- Standard probe arm (6852403)
- 1 thermo paper roll
- Wide-range power supply mit 3 adapters
- 2 x USB cables (to connect to PC and for use with cable)
- Operation manual

All items are delivered in a practical carrying case.

MarSurf M 400 Set:

Order no. 6910404

Technical Data

MarSurf M 400 Set

Profile determination	Primary, waviness and roughness profile
Probes	inductive free-tracing systems with exchangeable probe inserts, 2 μm probe tips, measuring force approx. 0.7 mN (standard)
Filters (as per DIN/JIS)	Gaussian filter, Ls filter
Standards	DIN/ISO/JIS/ASME/MOTIF
Parameters	DIN/ISO: Ra, Rq, Rz, Rmax, Rp, Rv, Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPC, Rmr (3x), HSC, RSm, Rsk, Rdc, Rdq, Pa, Pt, PMr (3x), Pdc, Wa, Wt, WSm, Wsk, JIS: Ra, Rz, RzJIS94, Sm, S, ASME: RpA, Rpm MOTIF: R, Ar, Rx, W, Wx, Wte, CR, CL, CF, NR, NCRx, NW
Cutoff l_c (as per ISO/JIS):	0.25 mm, 0.8 mm, 2.5 mm, automatic,
Tracing lengths L_t (as per ISO/JIS)	1.75 mm, 5.6 mm, 17.5 mm,
Tracing lengths (as per MOTIF)	automatic, free entry
Total lengths l_m (as per ISO/JIS)	1 mm, 4 mm, 8 mm, 12 mm, 16 mm
Numer n of sampling lengths (as per ISO/JIS):	selectable: 1 to 5
Shortened cutoff (as per ISO/JIS)	selectable
Tracing speed	0.2mm/s; 1mm/s
Profile resolution	Measuring rings: $\pm 250\mu\text{m} = 8\text{ nm}$, $\pm 25\mu\text{m} = 0.8\text{ nm}$
Memory	Languages 15, 3 of them Asian
Other	Max. 30 profiles, max. 40,000 results lock/code word protection, date/time, integrated printer, calibration function, dynamic

Drive Unit SD 26

Tracing length	26 mm
Measuring speed	0.2 mm/s; 1 mm/s
Positioning speed in X	5 mm/s
Height adjustment Z	7.5 mm, motorized
Positioning speed in Z	2 mm/s
Zero setting of probe system	Automatically to zero value or specification in the probe measuring range
Inclination adjustment	$\pm 1.5^\circ$ (levelling function with user guidance in the evaluation unit)
Temperature (storage)	-15°C to $+55^\circ\text{C}$
Temperature (operation)	$+5^\circ\text{C}$ to $+40^\circ\text{C}$
Rel. humidity	30% to 85%, non-condensing
Weight	M 400: approx. 1.0 kg SD 26: approx. 0.9 kg
Interfaces	USB Slave, MarConnect (RS232)
Wide-range power supply	90 – 264 V

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