MarSurf

Bluetooth®

MarSurf M 400

The best of the "mobiles"!
Easy. Fast. Innovative.
With skidless tracing and automatic zero setting.

- 0 +

Mahr

EXACTLY

MarSurf M 400. The Best of the "Mobiles"

High performance with high mobility

Evaluation Unit MarSurf M 400

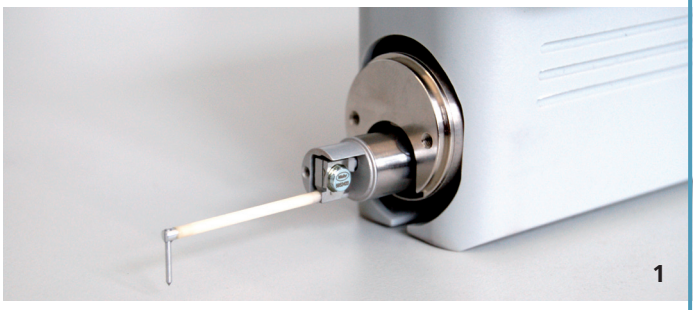
Easy. Fast. Innovative

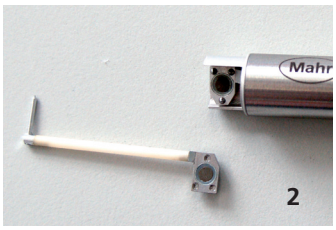
Not only needed in the measuring room but also more and more often in the production area: Surface evaluation that requires skidless tracing.

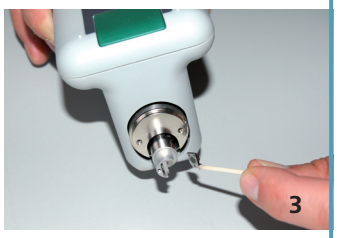
This generally means higher demands of the operator qualification, more time, more adjustments.

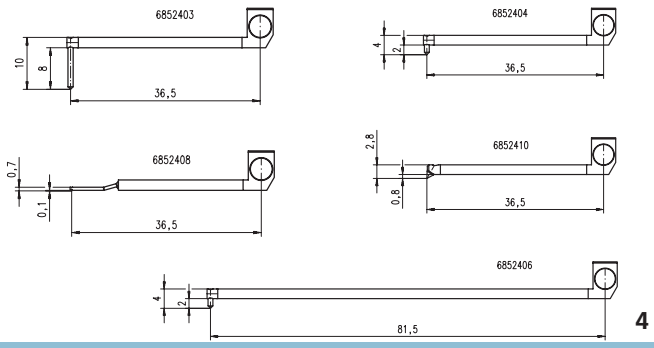
MarSurf M 400 offers this required performance scope in its line of mobile surface metrology – with easy and fast operation.

Probe System BFW 250









Drive Unit SD 26

Features

- **Skidless 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 setting
- **Flexible handling** with 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 AC adapter or built-in battery
- **Internationally up to date** with all common parameters as per ISO, JIS, ASME, many integrated languages
- **Documentation with quality** with integrated thermal printer for printout of profile and results
- **Standardized measuring point** density despite increased measuring speed

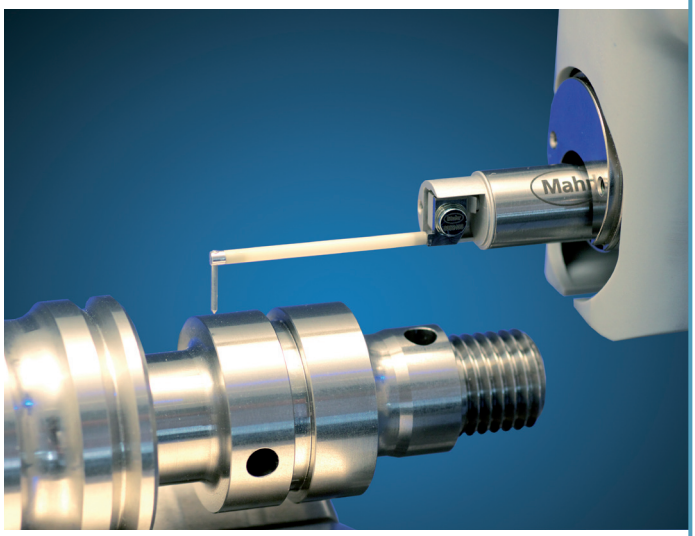
MarSurf M 400. The Best of the "Mobiles"

Applications MarSurf M 400

Upside down measurement with vee-block
Automatic zero setting of the BFW 250

Measurement in production

MarSurf measuring station with measuring stand ST-G

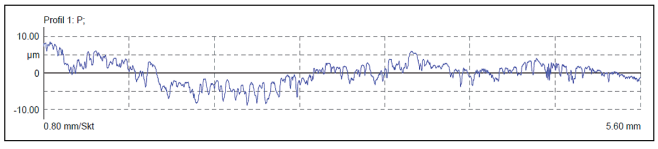


The possibility to expand the mobile surface measuring unit to a small stationary work station can be easily and quickly realized by adding only a few components from the line of MarSurf accessories.

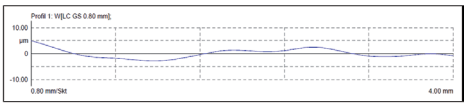
Fast and easy alignment of the drive unit relative to the testpiece thanks to the inclination adjustment option.

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

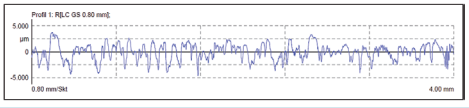
P profile



W profile



R profile



MarSurf M 400. The Best of the "Mobiles"

MarSurf M 400 Set

Scope of delivery

- 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 AC adapter mit 3 adapters
- 2 x USB cables (to connect to PC and for use with cable)
- Operating instructions

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
Probe	Inductive skidless probe system with exchangeable probe inserts, 2 µm probe arm, 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, Rkn, Pa, Pt, Pmr (3x), Pdc, Wa, Wq, Wt, WSm, Wsk, JIS: Ra, Rz, RzJIS94, Sm, S, ASME: RpA, Rpm MOTIF: R, AR, Rx, W, AW, Wx, Wte, CR, CF, CL, NR, NCRX, NW, CPM
Cutoff *lc* (as per ISO/JIS):	0.25 mm, 0.8 mm, 2.5 mm, automatic,
Traversing lengths *Lt* (as per ISO/JIS)	1.75 mm, 5.6 mm, 17.5 mm, automatic, free entry
Traversing lengths (as per MOTIF)	1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm
Evaluation lengths *lm* (as per ISO/JIS)	1.25 mm, 4.0 mm, 12.5 mm
Number *n* of sampling lengths (as per ISO/JIS):	selectable: 1 to 5
Short cutoff (as per ISO/JIS)	selectable
Measuring speed	0.2 mm/s; 1 mm/s
Profile resolution	Measuring range: ±250 µm = 8 nm, ±25 µm = 0.8 nm
Languages	15, 3 of them Asian
Memory	Max. 30 profiles, max. 40,000 results
Other	lock/code number protection, date/time, integrated printer, dynamic calibration function

Drive Unit SD 26

Traversing length	26 mm
Measuring speed	0.2 mm/s; 1 mm/s
Positioning speed in X	5 mm/s
Height adjustment in Z	7.5 mm, motorized
Positioning speed in Z	2 mm/s
Zero setting of probe system	Automatically to zero value or to specified value in the probe measuring range
Inclination adjustment	±1.5° (alignment function with user guidance in the evaluation unit)
Temperature (storage)	-15° C to +55° C
Temperature (operation)	+5° C to +40° 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 AC adapter	90 V to 264 V

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