



نماینده انحصاری کمپانی Mahr آلمان



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MarSurf





MarSurf M 400

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



I MarSurf. Mobile Surface Measuring Station

MarSurf M 400. The Best of the "Mobiles"

High performance with high mobility

Mahr

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.

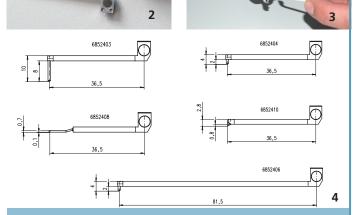
MarSurf M 400 offers this required performance scope in its line of mobile surface metrology – with easy and fast operation.

Drive Unit SD 26



Probe System BFW 250





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. Mobile Surface Measuring Station

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Applications MarSurf M 400



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





Measurement in production

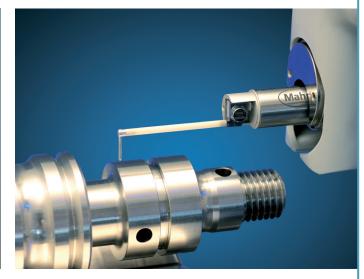


MarSurf measuring station with measuring stand ST-G

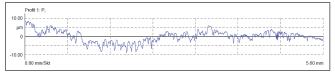
The possibility to expand the mobile surface measuring unit to a small stationary work station can be easily and quickly realized by adding only a few components from the line of MarSurf accessories.

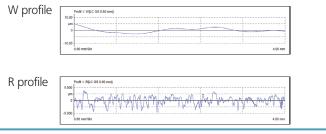
Fast and easy alignment of the drive unit relative to the testpiece thanks to the inclination adjustment option.

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



P profile





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

MarSurf M 400 set:

All items are delivered in a practical carrying case.

Order no. 6910404

Technical Data

MarSurf M 400 Set Profile determination

Profile determination Probe	Primary, waviness and roughness profile Inductive skidless probe system with ex- changeable probe inserts, 2 µm probe arm, measuring force approx. 0.7 mN (standard)
Filters (as per DIN/JIS) Standards Parameters	Gaussian filter, Ls filter DIN/ISO/JIS/ASME/MOTIF DIN/ISO/JIS/ASME/MOTIF 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 <i>lc</i> (as per ISO/JIS):	0.25 mm, 0.8 mm, 2.5 mm, automatic,
Traversing lengths Lt	1.75 mm, 5.6 mm, 17.5 mm,
(as per ISO/JIS)	automatic, free entry
Traversing lengths (as per MOTIF) Evaluation lengths <i>Im</i>	1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm
(as per ISO/JIS)	1.25 mm, 4.0 mm, 12.5 mm
Number <i>n</i> of sampling length	
(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: $\pm 250 \ \mu m = 8 \ nm$, $\pm 25 \ \mu m = 0.8 \ nm$
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 func- tion

Drive Unit SD 26 Traversing length Measuring speed Positioning speed in X Height adjustment in Z Positioning speed in Z Zero setting of probe system Inclination adjustment

Temperature (storage) Temperature (operation) Rel. humidity Weight

Interfaces Wide-range AC adapter 26 mm 0.2 mm/s; 1 mm/s

5 mm/s 7.5 mm, motorized

2 mm/s Automatically to zero value or to specified value in the probe measuring range $\pm 1.5^{\circ}$ (alignment function with user guidance in the evaluation unit) -15° C to $+55^{\circ}$ C $+5^{\circ}$ C to $+40^{\circ}$ C 30% to 85%, non-condensing M 400: approx. 1.0 kg SD 26: approx. 0.9 kg USB Slave, MarConnect (RS232) 90 V to 264 V

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