MarSurf



Bluetooth*

MarSurf M 400

The best of the "mobiles"!

Easy. Fast. Innovative.

With skidless tracing and automatic zero setting.



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.

Drive Unit SD 26



Probe System BFW 250

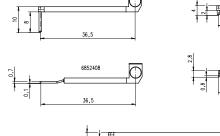






6852410

6852406



81,5

- Skidless tracing with high precision probe system (1)
 Fast probe arm change due to magnetic probe arm holder (2, 3, 4)
- Protection from damage

Features

- 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



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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

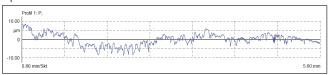
The possibility to expand the mobile surface measuring unit to a small stationary work station can be easily and quickly realized by adding only a few components from the line of MarSurf accessories.

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

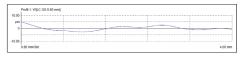
The MarSurf M 400 enables the evaluation of parameters from the P, W and R profiles.







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 Probe

Primary, waviness and roughness profile Inductive skidless probe system with exchangeable 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: Ra, Rq, Rz, Rmax, Rp, Rv, Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPc, Rmr (3x), HSC, RSm, Rsk, Rdc, Rdq, Rku,

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 *Ic* (as per ISO/JIS): Traversing lengths *Lt* 0.25 mm, 0.8 mm, 2.5 mm, automatic,

1.75 mm, 5.6 mm, 17.5 mm, automatic, free entry

(as per ISO/JIS)
Traversing lengths

1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm

(as per MOTIF)

Evaluation lengths Im

(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: $\pm 250 \mu m = 8 \text{ nm}$, $\pm 25 \mu m = 0.8 \text{ nm}$

Languages 15, 3 of them Asian

Memory Other 15, 3 of them Asian Max. 30 profiles, max. 40,000 results 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

±1.5° (alignment function with user guidance in the evaluation unit)

-15° C to +55° C +5° C to +40° 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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