# 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**

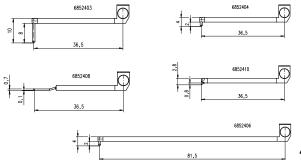


## **Probe System BFW 250**









#### **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

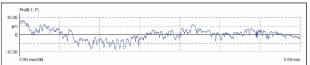
The possibility to expand the mobile surface measuring unit to a small stationary work station can be easily and quickly realized by adding only a few components from the line of MarSurf accessories.

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

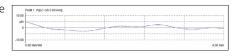
The MarSurf M 400 enables the evaluation of parameters from the P, W and R profiles.



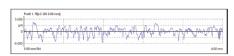




W profile



R profile



## 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, Rg, 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): 0.25 mm, 0.8 mm, 2.5 mm, automatic,

1.75 mm, 5.6 mm, 17.5 mm, Traversing lengths Lt

(as per ISO/JIS) automatic, free entry

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

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

Languages 15, 3 of them Asian

Max. 30 profiles, max. 40,000 results Memory Other lock/code number protection, date/time,

integrated printer, dynamic calibration func-

## **Drive Unit SD 26**

Traversing length 26 mm 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 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

±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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