



## Surface roughness measuring tool, Type: M400



### Order data

Order number	499041 M400
GTIN	2050001958433
Item class	43C

### Description

#### Version:

**Surface roughness measuring tool with free probe travel and automatic zeroing** for precise roughness and wave measurement in accordance with relevant standards. The **wireless Bluetooth connection between the evaluation unit and feed unit** offers high flexibility when performing a wide variety of measurement tasks. **Alternative operation with USB cable connection.** The user can use the feed unit to work directly at the point of measurement whilst the evaluation unit stands in a suitable place. The measurement can be started at the evaluation unit or at the feed unit. **Several feed units can be connected to a single evaluation unit** and can be controlled selectively.

- **Free probe travel with high-precision probe system.**
- **Quick-change probe arm using magnetic probe arm lock.**
- **Protected against damage.**
- **Only a few seconds set-up time using motorised height adjustment of the feed unit with automatic zeroing.**
- **Probe travel to DIN EN ISO 4288 / ASME B46.1: 0.48 mm, 0.56 mm, 1.5 mm, 1.75 mm, 4.8 mm, 5.6 mm, 15 mm, 17.5 mm automatically and variably adjustable to EN ISO 12085 (MOTIF): 1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm, variably adjustable.**
- **Number of traverse lengths selectable from 1 to 5.**
- **Automatic selection of filters and probe travels to the standard.**
- **Measurement travel for longitudinal sensing 0.1 to 26 mm.**
- **Phase correction Gauss filter to DIN EN ISO 16610-21 (supersedes DIN EN ISO 11562) and special filter ISO 13565-1.**
- **Flexible movement using cordless Bluetooth connection.**
- **Clear, direct, and simple brilliant colour display for operation and displaying results.**

- **Portable use with mains and battery power.**
- **International up to date incorporating all the usual reference values to DIN/ISO, JIS, ASME, MOTIF in multiple languages.**
- **Documentation with quality with integral thermal printer for printing out the profile and results.**
- **Report of date and/or time of measurements.**
- **Integral memory for results of about 40,000 measurements and 30 profiles.**
- **High measurement speed, 1 mm/s at the same measuring point density.**
- **Saving measurement programs.**

#### Supplied with:

MarSurf M400 evaluation unit, MarSurf SD26 feed unit including BFW250 probe system, standard probe arm, 1 roll thermal paper No. 499510 size H1, wide-range mains adapter with 3 plugs, 2xUSB cables (for connection to the PC and operation with cable), user manual, and transport case.

#### Spare part:

Battery No. 499549.

#### Note:

Other contact arms and probes, e.g. for small bores and slots, available on request.

Calibration: Q2

Roughness standards: DIN / ISO / JIS / ASME, MOTIF

Measurement travel for longitudinal sensing: 26 mm

Cut-off ( $\lambda_c$ ): 0.08; 0.25; 0.80; 2.50 mm

Cut-off ( $\lambda_c$ ): 0.003; 0.010; 0.032; 0.100 inch

Scanning speed: 0.2; 0.5; 1 mm/s

Feed unit length: 130 mm

## Technical description

Feed unit length	130 mm
Evaluation unit length	190 mm
Evaluation unit height	75 mm
Feed unit height	50 mm
Cut-off ( $\lambda_c$ )	0.08; 0.25; 0.80; 2.50 mm
Weight of the evaluation unit	1 kg
Feed unit width	70 mm
Scanning speed	0.2; 0.5; 1 mm/s
Measurement travel for longitudinal sensing	26 mm
Weight feed unit	0.9 kg

Cut-off ( $\lambda_c$ )	0.003; 0.010; 0.032; 0.100 inch
Evaluation unit width	140 mm
Roughness standards	DIN / ISO / JIS / ASME, MOTIF
Power supply	Rechargeable battery-powered
Reversible reading	mm / inch
Interface	USB interface
Interface	Bluetooth interface
Calibration	Q1
Calibration	Q2
Type of product	Surface roughness measuring device

## Services

Labelling laser-etched Type	018940
Calibration Surface roughness measuring tool Type R	029200 R
Calibration Roughness standard Type R	029220 R

## Accessories

Thermal paper for types ST1, H1, S2, M300, M310, M400 Type H1	499510 H1
Clamp	499046
Spare battery ST1, M300, M400	499549
Stand ST-G with T-slot Type PST-G	498857 PST-G
Stand ST-D Type	499011