

 Mahr

## Surface roughness measuring instrument, with printer, Type: M410



### Order data

|              |               |
|--------------|---------------|
| Order number | 499043 M410   |
| GTIN         | 4059192073480 |
| 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 MarSurf M 410 has a practical touch display, an evaluation device can be removed from the feed unit, an integrated PDF memory and data transmission via Bluetooth is possible.

- **Free probe travel with high-precision probe system.**
- **Quick-change probe arm without tools and with additional protection.**
- **PDF protocol creation directly in the device without additional software.**
- **Only a few seconds of set-up time using motorised height adjustment of the feed unit with automatic zeroing.**
- **Unique probe arm management for creating, changing and deleting over 50 probe arms. The calibration data of a calibrated probe arm is retained.**
- **Probe travel in accordance with DIN EN ISO 4288 / ASME B46.**
- **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), robust Gauss filter according to DIN EN ISO 16610-31 and special filter ISO 13565-1.**
- **Wireless data transmission via Bluetooth to a PC, e.g. to Excel or to third-party software.**
- **Assistance-guided tilt adjustment.**
- **Portable use with mains and battery power.**
- **International up to date incorporating all the usual reference values to DIN/ISO, JIS, ASME, MOTIF.**
- **17 languages integrated.**
- **Inclination correction  $\pm 1^\circ$ , manually.**

- **Storage of over 30,000 measurement programs.**
- **Scan information via scanner by scanning a QR or barcode (scanner not included).**

**Supplied with:**

MarSurf M 410 evaluation device, MarSurf MD 26 feed unit including BFW 250 probe system, standard probe arm, M 410 docking station, wide-range power supply unit with 3 adapters, micro USB cable, MD 26 cover cap, screwdrivers, 3 pcs. assembly key, operating instructions and carrying case.

Additionally with Bluetooth printer No. 499017.

**Note:**

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

## Technical description

|   |                                    |
|---|------------------------------------|
| Measurement travel for longitudinal sensing | 26 mm                              |
| Evaluation unit width                       | 77 mm                              |
| Feed unit height                            | 72 mm                              |
| Roughness standards                         | DIN / ISO / JIS / ASME, MOTIF      |
| Evaluation unit height                      | 35 mm                              |
| Cut-off ( $\lambda_c$ )                     | 0.003; 0.010; 0.032; 0.100 in      |
| Feed unit width                             | 38 mm                              |
| Weight of the evaluation unit               | 0.3 kg                             |
| Feed unit length                            | 194 mm                             |
| Scanning speed                              | 0.1 – 1.0 mm/s                     |
| Cut-off ( $\lambda_c$ )                     | 0.08; 0.25; 0.80; 2.50 mm          |
| Weight feed unit                            | 1.1 kg                             |
| Evaluation unit length                      | 162 mm                             |
| Reversible reading                          | mm / inch                          |
| Interface                                   | USB interface                      |
| Interface                                   | Bluetooth interface                |
| Calibration                                 | Q1                                 |
| Calibration                                 | Q2                                 |
| Type of product                             | Surface roughness measuring device |

## Services

|  |          |
|--|----------|
| CalibrationSurface roughness measuring tool Type R | 029200 R |
| CalibrationRoughness standard Type R               | 029220 R |

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## Accessories

|  |                |
|--|----------------|
| Printer set for height and roughness measuring devices<br>Type PRINTER | 499017 PRINTER |
| Thermal paper for types ST1, ST2, H1, S2, M300, M310,<br>M400 Type H1  | 499510 H1      |