

Garant
Surface roughness measuring instrument, Type: ST1

Order data

Order number	499030 ST1
GTIN	4045197492753
Item class	41M

Description
Version:

Portable roughness measuring instrument for precise roughness measurement and documentation conforming to standards, using the stylus tracing method. Ideal for portable use in manufacturing and for stationary use in the inspection room due to battery and mains operation, integral printer, and memory for up to 40 000 measured values and 30 profiles. All popular parameters and characteristic curves to DIN / ISO / JIS can be used for evaluating a measured profile.

- **Measuring range up to 350 μm (0.014 inch).**
- **Standards: ISO / ASME / JIS and MOTIF reversible.**
- **Probe travel in accordance with DIN EN ISO 4288 / ASME B46. 1: 1.75 mm, 5.6 mm, 17.5 mm (0.07 inch, 0.22 inch, 0.7 inch) in accordance with EN ISO 12085 (MOTIF): 1 mm, 2 mm, 4 mm, 8 mm, 12 mm, 16 mm.**
- **Number of traverse lengths selectable from 1 to 5.**
- **Automatic selection of filters and probe travels to the standard.**
- **Phase correction Gauss filter to DIN EN ISO 16610-21 (supersedes DIN EN ISO 11562).**
- **Cut-Off 0.25 mm, 0.80 mm, 2.50 mm (0.010 inch, 0.032 inch, 0.100 inch).**
- **Truncated Cut-Off can be selected.**
- **Parameters to DIN / ISO / SEP: R_a , R_{qf} , R_z , R_{max} , R_p , R_{tr} , R_{3z} , R_k , R_{vkr} , R_{pk} , M_{r1} , M_{r2} , R_{mr} , R_{Sm} , R_{Pc} .**
- **Tolerance monitoring in display and printed record.**
- **Automatic or fixed selectable scaling.**
- **Printing of R-profile (ISO / ASME / JIS), P-profile (MOTIF), material share curve, results report.**
- **Report of date and/or time of measurements.**
- **Dynamic calibration function.**

· **Locking and/or password protection for parameter settings.**

Standard:

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Supplied with:

Roughness standard No. 499580 size PRN10 supplied with factory calibration certificate, evaluation unit, feed unit, connection cable No. 499036, probe No. 499004 size 6-350, probe guard with Vee underside No. 499038, manual Vee with 1 pair of feet for height adjustment, holder for height scriber (hole Ø 8 mm), mains adapter with plugs, USB cable, 1 roll thermal paper No. 499510 size H1, shoulder strap with clip and transport case.

Optional extras:

Spare and special probe No. 499004, probe extension No. 499008, measuring stand No. 499011 or No. 498857, plus a suitable mounting for the feed unit No. 499035, Explorer evaluation software No. 498847.

Spare part:

Battery No. 499549.

Attention:

German version. Order free UK adapter plug No. 08 1174_GB.

Calibration: Q1

maximum measuring range: 350 µm

maximum measuring range: 0.014 inch

Roughness standards: DIN / ISO / JIS / ASME

Measurement travel for longitudinal sensing: 1.75 / 5.6 / 17.5 mm

Scanning speed: 0.5 mm/s

Feed unit length: 82 mm

Technical description

Scanning speed	0.5 mm/s
Feed unit height	59 mm

maximum measuring range	350 µm
maximum measuring range	0.014 inch
Roughness standards	DIN / ISO / JIS / ASME
Measurement travel for longitudinal sensing	1.75 / 5.6 / 17.5 mm
Weight feed unit	0.3 kg
Feed unit length	82 mm
Evaluation unit width	140 mm
Feed unit width	34 mm
Weight of the evaluation unit	1 kg
Evaluation unit height	86 mm
Evaluation unit length	190 mm
Number of batteries contained	1
Article no of the battery / rechargeable battery fitted	081575 LR6
Power supply	Rechargeable battery-powered
Reversible reading	mm / inch
Interface	USB interface
Calibration	Q2
Calibration	Q1
Type of product	Surface roughness measuring device

Services

Labelling laser-etched Type	018940
Calibration Surface roughness measuring tool	011460
Calibration Roughness standard	018800

Accessories

Stand ST-D Type	499011
Connection cable for feed unit	499036
Probe guard for feed unit	499038

Stand ST-G with T-slot Type PST-G	498857 PST-G
Probe extension Length 80 mm	499008 80
Probe for ST1 / PS1 / PS10 / M300 Type 6-350	499004 6-350
Arbor	499035
Software Explorer	498847
Thermal paper for types ST1, H1, S2, M300, M310, M400 Type H1	499510 H1
Spare battery ST1, M300, M400	499549