

Elcometer 7062 MarSurf PS10 Surface Roughness Tester

The Elcometer 7062 is a light weight and portable measuring solution for the range of surface roughness measurements required for compliance to International Standards.

The unit is also suitable for assessing surface roughness conditions in a wide range of general industrial applications; particularly where the sample is too large to bring to the laboratory.

Measurements of Surface Roughness are expressed in terms of Ra, Rz or Rt.

These values include peak-to-valley profile measurement in combination with an assessment of the frequency of peaks within the sample area.

- Multilingual Display
- Integrated Calibration Standard



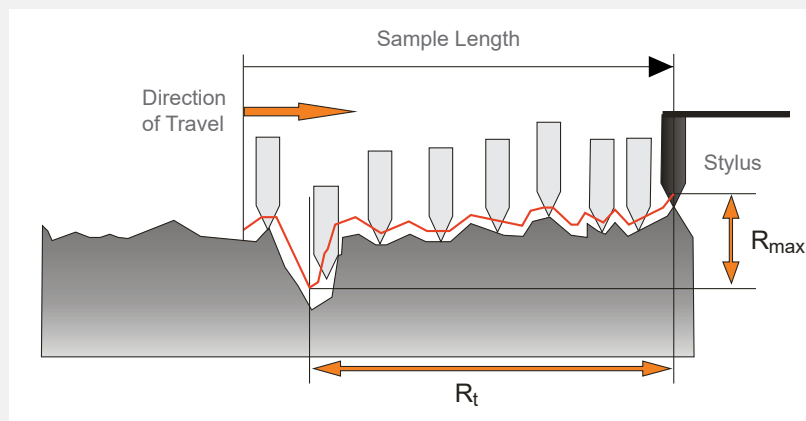
STANDARDS:

ASTM D7127, ASME B46, DIN 4768, EN 10049, ISO 4287, ISO 4287/1, JIS B 0601, SSPC PA 17

How to use a Surface Roughness Tester

Surface Roughness Testers consist of a stylus which is mechanically drawn across the surface recording an "image" of the surface roughness across a pre-defined sample length.

The measurement technique provides a number of measurement parameters including:



- **Rmax:** The greatest distance between the highest peak and lowest valley over the sampling length
- **Ra:** The average roughness over the sampling length
- **Rt:** The distance between the highest peak and the lowest valley within any given sampling length.
- **Rz:** The average distance between the highest peak and lowest valley over a number of sampling lengths

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Technical Specification

Part Number	Description	Certificate
K7062M001	Elcometer 7062 MarSurf PS10 Surface Roughness Tester	•
Unit of Measurement	Metric, Imperial	
Stylus pick-up*	Inductive skidded stylus pick-up, 2µm (80µin) stylus tip, measuring force approx. 0.7 mN	
Parameters	DIN/ISO - Ra, Rq, Rz, Rmax, Rp, Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPc, Rmr, RSm, Rsk, CR, CF, CL, R, AR, Rx JIS - Ra, Rq, Ry, RzJIS, tp, RSm, S ASME - Rp, Rpm, RPc, Rsk, tp MOTIF - R, AR, Rx, CR, CF, CL	
Measuring Range	0-350µm (0-13.78mils)	Resolution 8nm (0.315µin)
Filter	Phase-correct profile filter (Gaussian filter) according to DIN EN ISO 16610-21 (former ISO 11562), special filter according to DIN EN ISO 13565-1, Is filter according to DIN E ISO 3274 (can be switched off)	
Cutoff (lc	0.25mm, 0.8mm, 2.5mm; automatic (0.010", 0.030", 0.100")	
Traversing Length(Lt)	1.5mm, 4.8mm, 15mm; automatic (0.06", 0.192", 0.6")	
Traversing Length(acc. to MOTIF)	1mm, 2mm, 4mm, 8mm, 12mm, 16mm (0.040", 0.080", 0.160", 0.320", 0.480", 0.640")	
Evaluation Length (ln)	1.25mm, 4.0mm, 12.50mm (0.050", 0.15", 0.50")	
Number (n) of Sampling Lengths	Selectable: 1 to 16 sampling lengths	
Memory Capacity	3,900 profiles, 500,000 result	
Battery	Rechargeable battery 100V to 264V power supply	
Dimensions	160mm × 77mm × 50mm (6.29" × 3.03" × 1.97")	Weight 500g (1.10lbs)
Packing List	Elcometer 7062 MarSurf PS10 base unit, drive unit, drive unit extension cable. 1 x standard stylus pick-up, built-in battery, roughness standard integrated into casing, height adjustment accessory, stylus pick-up protection, universal charger / mains adapter, USB cable, carry case with shoulder strap and belt loop, calibration certificate and operating instructions	

Accessories

Part Number	Description
KT007061P001	Stylus pick-up Extension; 80mm (3.15") , ideal for measuring points located deep within cylinders
KT007061P002	Stylus pick-up PHT 3-350 , for measurements in bores from 3mm (0.12") diameter
KT007061P003	Stylus pick-up PHT 11-100 , for measurements at recessed measuring points, e.g. in grooves from 2.5mm (0.10") wide and up to 7.5mm (0.30") deep
KT007061P004	Stylus pick-up PHTR 100 , for measurements on concave and convex surfaces
KT007061P005	Stylus pick-up PHTF 0.5-100 , for measurements on tooth flank
KT007061P006	Stylus pick-up PT 150 , Dual-skid stylus pick-up for measurements on metal sheets and roller surfaces according to DIN EN 10049 (SEP)
KT007061P007	Stylus pick-up PHT 6-350
KT007061P008	Stylus pick-up PHT 6-350, 5µm Probe Tip , for measurements on flat planes, in bores from 6mm (0.24"), 17mm (0.67") deep and in grooves from 3mm (0.12") wide
KT007061P010	Measuring Stand ST-D
KT007061P012	Measuring Stand Mount - Required to fix the Elcometer 7061 to the measuring stan
KT007061P011	End Face Vee-Block - For measuring on flat faces of cylindrical and planar component
KT007061P013	Adaptor Set for Transverse Tracing; Comprising of Adaptor for Transverse Tracing and Vee-Block Holder with Vee-Block - For hand-held transverse tracing of cylindrical measuring objects

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