

Tester Roughness Tester Can be used in accordance with:

ISO 4287, ISO 4287/1 ASTM D4417, ASME B46, DIN 4768, EN 10049, JIS B 0601



In protective coating applications there is a requirement to measure surface roughness.

Measurements of Surface Roughness are expressed in terms of Ra, Rz or Tp. These values include peak-to-valley profile measurement in combination with an assessment of the frequency of peaks within the sample area.

The Elcometer 7061 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.

- Multi-Lingual Display: All the required information is displayed on screen in a choice of 14 languages.
- Flexible: Can be used in virtually any position; horizontally, vertically, upside down. A height adjustment accessory to accommodate various sample sizes is supplied with each gauge as standard.
 - Integrated Calibration Standard: No external calibration standard is required; provides greater ease of use.
- Drive Unit: Can be rotated and moved longitudinally; enables the stylus pick-up to be moved to the calibrating position. The stylus pick-up is also protected for transport in this position.
- Stylus pick-up with removable protection: 2µm (80µin) diamond stylus tip with a measuring force of 0.7 mN. Different stylus' are available for various applications.

Elcometer 7061 MarSurf PS1 Explorer Evaluation Software

Available as an optional accessory PS1 Explorer Evaluation Software allows the Elcometer 7061 to be connected to a PC or laptop; using the USB cable supplied to document protocol profiles, results, statistics and to print out all your measurement results.



Part Numbers

Unit of Measurement
Measuring Principle
Stylus Pick-Up Supplied
(Other stylus pick-ups are available)
Parameters

Measuring range Profile resolution Filter*

Cutoff lc*
Traversing length Lt*

Traversing length (acc. to MOTIF)

Short cutoff*

Evaluation length ln*

Number n of sampling lengths*

Metric, inch Stylus Method

Inductive skidded stylus pick-up, 2µm stylus tip, measuring force approx. 0.7 mN

24 (with tolerance limits): Ra, Rq, Rz equiv. to Ry (JIS), Rz (JIS), Rmax, Rp, Rp (ASME), Rpm (ASME), Rpk, Rk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, R3z, RPc, Rmr equiv. to Tp (JIS, ASME), RSm, R, Ar, Rx 350μm, 180μm, 90μm (changes automatically)

32nm, 16nm, 8nm (changes automatically)

Phase-correct profile filter (Gaussian filter) according to DIN EN ISO 11562, special filter according to DIN EN ISO 13565-1, ls filter according to DIN EN ISO 3274 (can be disabled)

0.25mm, 0.8mm, 2.5mm; automatic (0.010", 0.030", 0.100") 1.75mm, 5.6mm, 17.5mm; automatic (0.069", 0.22", 0.69")

1mm, 2mm,4mm,8mm,12mm,16mm (0.040",0.080",0.160",0.320",0.480",0.640")

Selectable

1.25mm, 4.0mm, 12.50mm (0.050", 0.15", 0.50")

Selectable: 1 to 5

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Part Number

KT007061P00

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KT007061P009

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Dynamic Calibration function Memory

capacity Max. 15 profiles, max. 20,000 results

Other functions Blocking of settings (code-protected), date/time

Li-ion battery Battery

USB, MarConnect (RS232) Interfaces 140mm x 50mm x 70mm **Dimensions**

400g Weight

100V to 264V Long-range power supply

Elcometer 7061 MarSurf PS1 base unit, drive unit, 1 x standard stylus pick-up, Packing List 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

Part Number K7061M001

* According to ISO/JIS

Elcometer 7061 Stylus Pick-Ups

Description Stylus pick-up Extension; 80mm (3.15"); Ideal for measuring points located deep within cylinders

Stylus pick-up PHT 3-350; For measurements in bores from 3mm diameter

Stylus pick-up PHT 11-100; For measurements at recessed measuring points, e.g. in KT007061P00 grooves from 2.5mm wide and up to 7.5mm deep

2 Stylus pick-up PHTR 100; For measurements on concave and convex surfaces

KT007061P00 ĶТ007061Р00 Stylus pick-up PHTF 0.5-100; For measurements on tooth flanks

Stylus pick-up PT 150; Dual-skid stylus pick-up for measurements on metal sheets and roller surfaces according to DIN EN 10049 (SEP)

Stylus pick-up PHT 6-350 Stylus pick-up PHT 6-350, 5µm Probe Tip

6 For measurements on flat planes, in bores from 6mm, 17mm deep and in grooves

Stylus pick-up Set; Comprising of Stylus pick-up PHT 3-350 & Stylus pick-up PHT 11-100

Miscellaneous Accessories

Description Part Number Stylus pick-up Extension; 80mm (3.15"); Ideal for measuring points located deep within cylinders KT007061P001 Stylus pick-up PHT 3-350; For measurements in bores from 3mm (0.12") diameter KT007061P002 Stylus pick-up PHT 11-100; For measurements at recessed measuring points, e.g. in grooves from KT007061P003 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 flanks 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

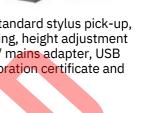
Stylus pick-up Set; Comprising of Stylus pick-up PHT 3-350 & Stylus pick-up PHT 11-100

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