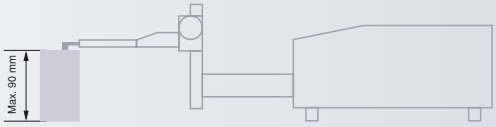
# TESA RUGOSURF Roughness Tester 90G

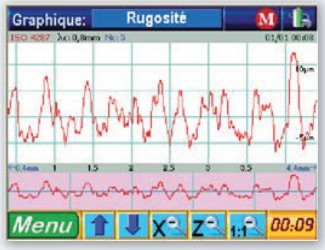
Small-size, versatile roughness tester providing maximum ease of use – Ideally suited for high-precision measurements on the shop floor or in the inspection laboratory.

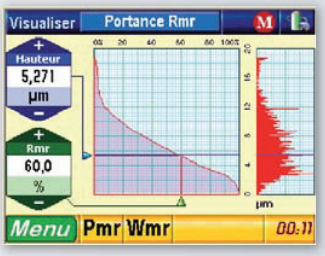
- ✓
- USB
- ISO 3274 (cl. 1)
- 10°C to 40°C
- -10°C to +50°C
- 270 x 140 x 90 mm (tester alone)
- 3 kg
- ✓
- Suited plastic case
- Declaration of conformity

- Measures roughness parameters according to ISO 4287, 12085 (CNOMO), 13565, DIN 4776, JIS B0601:2001 and ASME B46-2002.
- Tactile TFT colour display with size to 3,5".
- Three function keys.
- Graphical interface.
- Direct displaying of all measured values and computed profiles.
- Measuring span to 50 mm/2 in (X-axis) or 1000 µm/39370 µin (Z-axis).
- Interchangeable probe, with or without contact skid.
- Possible input of tolerances.
- USB digital output for data transfer to a PC running TESA Measurement Studio (this software is available as an option).
- Measures up to 90 mm vertically without the need for a special support.
- Profile measurement up to 2 mm (optional accessory).





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| **06930012** | **TESA RUGOSURF roughness gauge 90G** | |
| *Supplied with the following standard accessories:* | | |
| | Roughness standard, Ra = 2,97 µm / 117 µin | |
| | Rechargeable built-in battery, 12 V | |
| | **SB60/10** standard probe, with or without contact skid | |
| | Two-position probe holder | – Locked for probe without skid<br>– Unlocked for probe with skid |
| | Guiding column, setting range up to 90 mm | |
| | Battery charger, 100 to 240V, 50/60 Hz | |

## Technical data

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|---|---|
| | **06930012** |
| | **RUGOSURF 90G** |
| Display | Tactile TFT colour display, size 3,5"<br>Resolution 320 x 240 pixels, 256 colours |
| Roughness parameters | according to ISO 4287:1997/JIS B0601:2001 / ASME B46-2002<br>Ra – Rq – Rt – Rz – Rp – Rv – Rc – RSm – Rδc<br>Pa – Pq – Pt – Pp – Pv – Pc – PSm – Pδc<br>Wa – Wq – Wt – Wz – Wp – Wv – Wc – WSm – Wδc<br>according to ISO 13565<br>Rk – Rpk – Rvk – Mr1 – Mr2<br>according to PrEN 10049<br>PPc - RPc- WPc<br>according to DIN 4776<br>Rmax<br>according to DB N31007<br>R3z – R3zm<br>according to ISO 12085 (CNOMO)<br>Pt – R – AR – Rx – Wte – AW – Wx – Rke – Rpke - Rvke – W – Mrle – Mr2e |
| Measuring span<br>X-axis<br>Z-axis | <br>50 mm<br>1000 µm |
| System of units | mm / in |
| Resolution | 0,001 µm (0.01 µin) |
| Cut-offs | 0,08 - 0,25 - 0,8 - 2,5 - 8 mm |
| Numerical filter | Type Gaussian as per ISO 11562 |
| Traversing length $l_t$ | (number of cut-offs + 1) x λc |
| Cut-off $l_c$ | number of cut-offs x λc |
| Probing speed | 0,5 mm/s – 1 mm/s |
| Number of selectable cut-offs | 1 up to 19 cut-offs of 0,08; 0,25; 0,8; 2,5 mm<br>1 up to 5 cut-offs of 8 mm |
| Keypad | Three-key, membrane-type keypad protected against dust particles and liquids |
| Probing system | inductive probe |
| Probe tip | 90° diamond tip |
| Tip radius | 5 µm |
| Measuring force | 0,75 mN (ISO 3274) |
| Available languages | English, French, German, Spanish, Italian, Portuguese |
| Memory capacity | ≈ 60 000 measurements |
| Autonomy | ≈ 2 000 measurements / ≈ 10 hours |
| Power supply | 12V integrated Battery pack – Battery charger 100 to 240 Vac, 50/60 Hz |
| Power consumption | max. 20 VA at 220 V |
| Overall dimensions | 270 x 140 x 90 mm (gauge unit alone) |
| Weight | 3 kg |