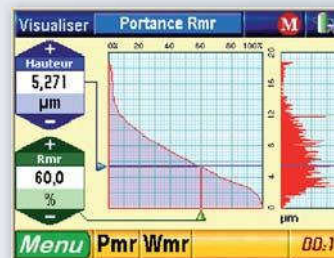
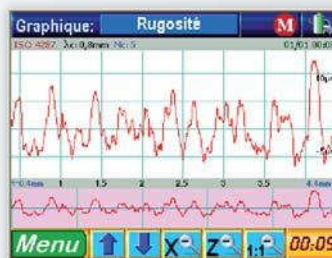
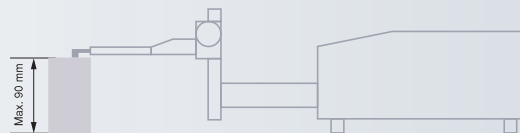




## TESA RUGOSURF Roughness Tester 90G

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.

- 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).



**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

– Unlocked for probe with skid

Guiding column, setting range up to 90 mm

Battery charger, 100 to 240V, 50/60 Hz

## Technical data

	<b>06930012</b>
	<b>RUGOSURF 90G</b>
Display	Tactile TFT colour display, size 3.5" Resolution 320 x 240 pixels, 256 colours
Roughness parameters	according to ISO 4287:1997/JIS B0601:2001/ASME B46-2002 Ra – Rq – Rt – Rz – Rp – Rv – Rc – RSm – Rδc Pa – Pq – Pt – Pd – Pv – Pc – PSm – Pδc Wa – Wq – Wt – Wz – Wp – Wv – Wc – WSm – Wδc according to ISO 13565 Rk – Rpk – Rvk – Mr1 – Mr2 according to PrEN 10049 PPc – RPC – WPC according to DIN 4776 Rmax according to DB N31007 R3z – R3zm according to ISO 12085 (CNOMO) Pt – R – AR – Rx – Wte – AW – Wx – Rke – Rpkc – Rvkc – W – Mr1c – Mr2c
Measuring span	
X-axis	50 mm
Z-axis	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 <sub>t</sub>	(number of cut-offs + 1) x λ <sub>c</sub>
Cut-off l <sub>c</sub>	number of cut-offs x λ <sub>c</sub>
Probe 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 1 up to 5 cut-offs of 8 mm
Keypad	Three-kev. membrane-type keypad protected against dust particles and liquids
Probe 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 (aque unit alone)
Weight	3 kg

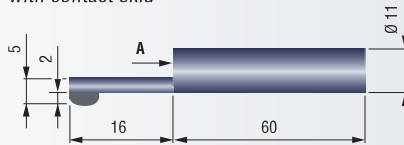


Optional probes (90° diamond tip with a tip radius to 5 µm, unless otherwise specified)

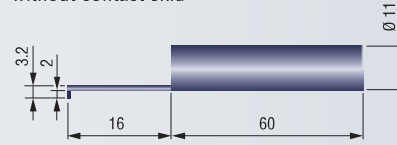
Part No.	Model	Description
06960049	SB60/10	<b>Probe with contact skid</b> For surfaces and bores with external diameter over 10 mm or internal diameter smaller than 6 mm.
		<b>Probe without contact skid</b> For surfaces and small bores with diameter from Ø 4 mm.
06960067	SB60/10	Same as 06960049, but with a diamond tip, R=2 µm.
06960050	SB20 P	Probe for arooves, max. depth 5 mm.
06960051	SB30 P	Probe for small bores from Ø 4 mm.
06960052	SB40 P	Probe with V-skid for cables with external diameter over 1 mm.
06960053	SB50 P	Probe with contact skid for concave surfaces. Ideal for 90° measurement.
06960054	SB120P	Probe for arooves, max. depth 20 mm.
06960058	SB120S	Probe without skid for arooves, max. depth 15 mm.
06960061	SB60-D2	Probe for small bores with diameter from 2 mm, L = 30 mm.

### SB60/10 Probe

with contact skid



without contact skid



**A** Undo both screws on the front face to remove the skid. Once done, use the probe very carefully for any further measurement (see Fig. 1).

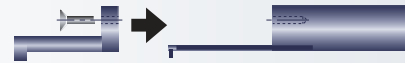
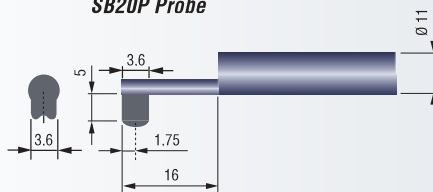
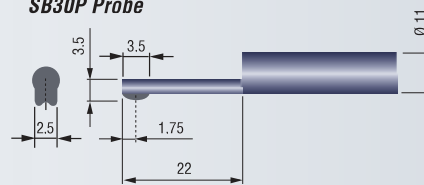


Fig. 1

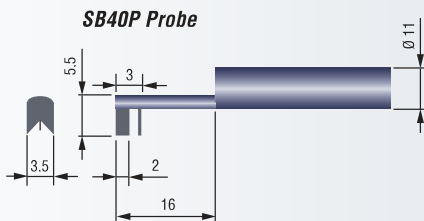
### SB20P Probe



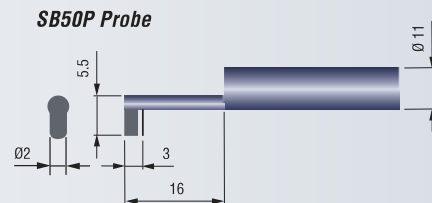
### SB30P Probe



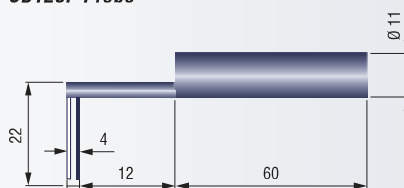
### SB40P Probe



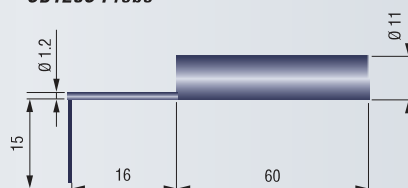
### SB50P Probe



### SB120P Probe



### SB120S Probe



### SB60-D2 Probe

