



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).



USB

ISO 3274 (cl. 1)

10°C to 40°C

-10°C to +50°C

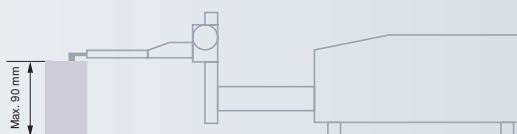
270 x 140 x 90 mm
(tester alone)

3 kg

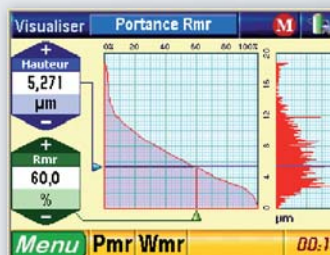


Suited
plastic case

Declaration
of conformity



Visualiser	Paramètres	M	
Ra	2,927 µm	Rdc	18,793 µm
Rq	3,529 µm	Rmr1 0,0%	Rmr2 100,0%
Rt	18,783 µm	RPC(0,001)	36 /cm
Rz	13,182 µm	Pa	4,338 µm
Rp	7,681 µm	Pq	5,763 µm
Rv	5,501 µm	Pt	34,086 µm
Rc	9,627 µm	Pp	20,840 µm
RSm	249 µm	Pv	13,246 µm
		Pc	10,464 µm
Menu			



N°

=

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

 	06930012
	RUGOSURF 90G
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 – Pp – 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 – Rpk – Rvk – W – Mrle – Mr2e
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 _t	(number of cut-offs + 1) x λ _c
Cut-off l _c	number of cut-offs x λ _c
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 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

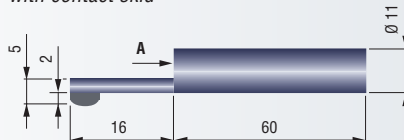


Optional probes (90° diamond tip with a tip radius to 5 µm, unless otherwise specified)

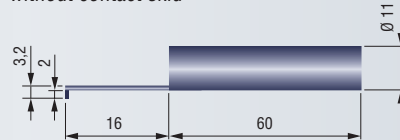
		
06960049	SB60/10	Probe with contact skid For surfaces and bores with external diameter over 10 mm or internal diameter smaller than 6 mm.
		Probe without contact skid For surfaces and small bores with diameter from Ø 4 mm.
06960067	SB60/10	Same as 06960049, but with a diamond tip, R=2 µm.
06960050	SB20 P	Probe for grooves, 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 grooves, max. depth 20 mm.
06960058	SB120S	Probe without skid for grooves, 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

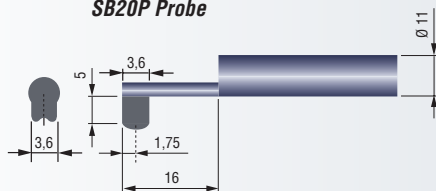


A Undo both screws on the front face to remove the skid. Once done, use the probe very carefully for any further measurement (see Fig. 1).

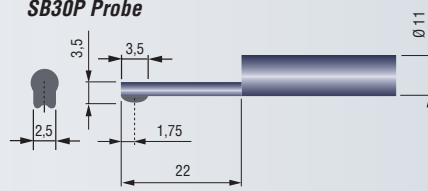


Fig. 1

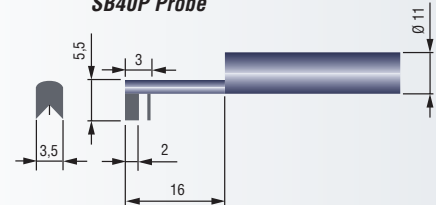
SB20P Probe



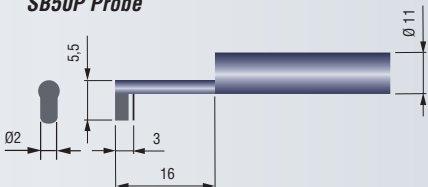
SB30P Probe



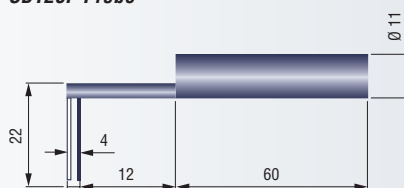
SB40P Probe



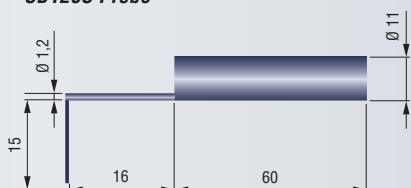
SB50P Probe



SB120P Probe



SB120S Probe



SB60-D2 Probe

