



Probe measuring position at 90° and adjustable in height

RUGOSURF 90G with tactile colour screen

Measurement with or

without skid

TESA RUGOSURF 90G

Small-size, versatile roughness gauge with tactile colour screen providing maximum ease of use. Ideally suited for high-precision measurements on the shop floor or in the inspection laboratory.

Special features of RUGOSURF 90G:

- Supplied with SB60/10 probe with removable pad: one single probe can be used to measure roughness or undulation!
- RUGOSURF 90G can measure a components with a height of up to 90mm, thanks to a vertical positioning screw without any additional accessory!
- With the PROFILE SET 2 mm (06960100) RUGOSURF 90G becomes a profile measurement instrument with a width of 2000 μm measuring in the Z axis (optional)!

Tactile TFT 3.5" colour screen.

Direct display of all measured values and computed profiles.

Measuring span

 $Z = 1000 \mu m (0.039 in)$

X = up to 50 mm

Special 2 in 1 probe can measure with contact skid (roughness measurement) or without contact skid (measure of undulation).

Vertical adjusting screw for probe positioning up to a height of 90 mm without the need of an accessory.

Tolerancing of all parameters possible.

USB ditial output for transfer of measured values to a PC with TESA MEASURE-MENT STUDIO software (optional).

Unique in its category, this instrument can also do profile measurement (Z = 2 mm) if used with PROFILE SET 2 mm (optional).

Measures roughness parameters according to standards:

- ISO 4287
- 12085 (CNOMO)
- ISO 13565
- DIN 4776
- JIS B0601:2001
- ASME B46-2002





Roughness profile



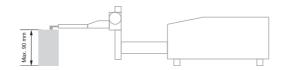
Roughness parameters



ISO 3274 (cl. 1)

270 x 140 x 90 mm (without probe)

Bearing area curve (BAC) and amplitude distribution curve (ADC)



Fine adjustment of vertical position up to 90 mm

SURFACE ROUGHNESS TESTING

TECHNOLOGY	

		SURFACE ROUGHNESS TESTING
No		06930012
		TESA RUGOSURF 90G portable table roughness tester $Z = \pm 500 \mu \text{m} (\pm 0.0197 \text{in})$ $X = 50 \text{mm} (1.968 \text{in})$ probe with detachable skid
	Measuring span, µm	Z Axis = 1000 μm (39370 μin); X Axis = 50 mm (1.969 in)
	Indication span, µm	$Ra = 0 \div 400 \mu\text{m}$; $Rt = 0 \div 1000 \mu\text{m}$
OS)	Precision class	In accordance with ISO 3274 Class 1
	Measuring force, N	0,75 mN according to ISO 3274
	Resolution, µm	0,001 μm (0.01 μin)
妆	Display	Tactile graphic colour screen TFT 3.5" (320 x 240 pixels)
*	Roughness parameters	DIN / ISO / JIS / ASME: Ra, Rq, Rt, Rp, Rc, Rv, RSm, R&c, RPc Pa, Pq, Pt, Pp, Pc, Pv, PSm, P&c, PPc Wa, Wq, Wt, Wp, Wc, Wv, WSm, W&c, WPc Rmr, Rz, Rmax, Rsk, Rku, Wz Rk, Rpk, Rvk, Mr1, Mr2 DB N 31007: R3z, R3zm MOTIF ISO 12085 (CNOMO): Pt, R, Rx, AR, Wte, W, AW, Wx, Rke, Rpke, Rvke, Pdc, PPc, Mr1e, Mr2e
妆	Graphics	Profil-W, Profil-R, Profil-P, Bearing area curve
妆	Cut-off length, mm	0,08 - 0,25 - 0,80 - 2,50 - 8,00 mm
妆	Number of cut-off	1 to 19 for cut off up to 2,5 mm; 1 to 5 for cut off of 8,00 mm
妆	Diamond or stylus tip (R = µm; angle °)	R = 5 μm, 90°
妆	Memory capacity	Max. 60'000 measurements with parameters
	Dimensions (mm)	270 x 140 x 90 mm
	Degree of protection of keyboard (IP XX)	IP67 (membrane keyboard)
3	Digital output (USB)	USB cable connector to PC
	Weight, kg	3 kg
•	Included in delivery	 RUGOSURF 90G Roughnness standard Ra = 2,97 µm Standard probe SB60/10 with or without skid Probe holder Guiding column, vertical setting range 90 mm Integrated rechargeable battery, 12 V Charger for battery
大	Measuring response time	-
	Probing speed, mm/s	0,5 mm/s or 1,0 mm/s selection options
mmin	Units	mm or inch
妆	Power supply	100 ÷ 240 VAC / 50 ÷ 60 Hz; 18 V, 2,2 Ah





OPTIONAL ACCESSO	DRIES:
06960062	Cable RUGOSURF 10G and RUGOSURF 90G to PC (connector v3)
06960033	Printer for RUGOSURF + cables
06960048	MEASUREMENT STUDIO software + dongle for RUGOSURF 90G
06960055	Granite 630 x 400 mm with vertical support H250mm, 60 kg, Grade 0 for RUGOSURF 90G
06960064	Roughness standard Ra = 0,1 µm (4 µin)
06960065	Roughness standard Ra = 0,5 μm (20 μin)
06960066	Roughness standard Ra = 1,0 μm (40 μin)
06960100	PROFILE SET 2 mm for profile measurement with RUGUSURF 90G
06960056	100 mm extension for probe with skid for RUGOSURF 20, 10G, 90G
06960067	SB60/10 2µm probe for RUGOSURF 90G as SB60/10 but R = 2 µm
06960050	SB20P probe for RUGOSURF 90G for grooves of depth < 5 mm
06960051	SB30P probe for RUGOSURF 90G for small bores with Ø > 4 mm
06960052	SB40P probe for RUGOSURF 90G V-shape for cylinders with Ø > 1 mm
06960053	SB50P probe for RUGOSURF 90G for concave surfaces and for measuring at 90° with RUGOSURF 90G
06960054	SB120P probe for RUGOSURF 90G for grooves of depth < 20 mm
06960058	SB120S probe without skid for RUGOSURF 90G for grooves of depth < 15 mm
06960061	SB60-D2-L30 probe, L = 30 mm for RUGOSURF 90G for small bores of Ø > 2 mm

STANDARD ACCESSORIES:				
06960049	SB60/10 standard probe for RUGOSURF 90G R = 5 µm, 90° detachable skid			
06960041	Roughness standard Ra = 2,97 μm (117 μin)			
056645	Transport case with internal protective foam for RUGOSURF 90G			

