ISO 3274 (Cl.1)

122 x 53 x 75 mm (without probe)

USB

590 g

TESA RUGOSURF 10G

Portable, versatile gauge unit with compact design, well suited for use in goods inwards inspection, production or the measurement laboratory.

3 horizontal measuring positions of probe 0°, -90° et +90°.

Measures roughness parameters according to standards:

- ISO 4287
- JIS B0601
- DIN and ISO 12085 (MOTIF or CNOMO).

TFT 2" graphic display for optimum visual representation of any measured parameters and workpiece profiles.

Direct displaying of all measured values and computed profiles.

31 roughness parameters available.

Flexible autonomy through mains adapter or battery pack.

Data storage, printing or transfer to a PC of a maximum of 999 measured results.

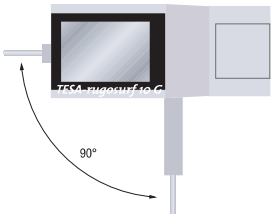
Possible tolerancing of all parameter values.

Multilingual menu options.

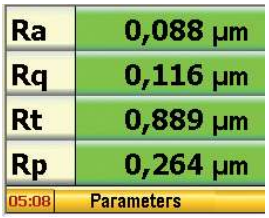
USB data output enabling a direct connection to a matrix printer unit or a PC equipped with RUGOSOFT 10 software (both are optional).



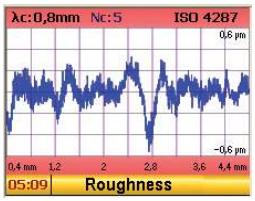




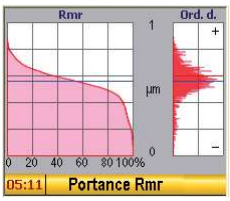
Probe measuring positions at -90°, 0°, +90°



Measuring results



Profile measurement



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



Measuring travel

NO	06930011
	TESA RUGOSURF 10G portable surface roughness tester for use in the workshop Z = ± 200 µm (± 0.0079 in) X = 16 mm (0.63 in) 3 probe measuring positions
Measuring span, µm	400 µm (6300 µin) on Z axis, 16 mm (0.63 in) on X axis
Display span, µm	Ra = 0 ÷ 100 µm; Rt = 0,05 ÷ 400 µm
Precision class	in accordance with ISO 3274 Class 1
Measuring force, N	0,75 mN (in accordance with ISO 3274)
Resolution, µm	0,001 µm (0.1 µin)
Display	TFT 2" colour graphic screen
Roughness parameters	DIN / ISO / JIS / ASME: Ra, Rq, Rt, Rp, Rc, Rv, RSm, Rδc, RPc Pa, Pq, Pt, Pp, Pc, Pv, PSm, Pδc, PPc Rmr, Rz, Rmax Rk, Rpk, Rvk, Mr1, Mr2 DB N 31007: R3z, R3zm MOTIF ISO 12085 (CNOMO): Pt, R, Rx, AR
Graphics	Bearing area curve, profil-R, profil-P
Cut-off length, mm	0,25 – 0,80 – 2,50 mm (0.01 – 0.03 – 0.10 inch)
Number of cut-off	1 to 10 for a cut-off of 0,25 and 0,8 mm
Diamond point of stylus (R = µm; angle °)	R = 5 µm, 90°
Built-in memory	Max. 1000 parameters; max. 20 measurements with parameters, profiles and graphics
Dimensions, mm	122 x 53 x 81 mm
Degree of protection of keyboard (IP XX)	IP67
Digital output (USB)	USB cable connector to PC
Weight, g	590 g
Included in delivery	RUGOSURF 10G Roughness standard Ra = 2,97 µm Built in rechargeable battery SB10 standard probe Battery charger EU and US Adaptor Positionng clamp for stand Ø 8 mm Vertical positoning stand User instructions
Probing speed, mm/s	1 mm/s
Units	mm or inch
Power supply	100 ÷ 240 VAC; 50 ÷ 60 Hz, 12 V, 400 ÷ 650 mAH

OPTIONAL ACCESSORIES:	
06960062	Cable RUGOSURF 10G and RUGOSURF 90G to PC (connector v3)
06960033	Printer for RUGOSURF + cables
06960034	RUGOSOFT Software + Dongle
06960035	Granite 400x250 mm with vertical support H 150 mm, 25 kg, Grade 0 for Rugosurf 20 and 10G
06960081	Probe SB10 2µm for RUGOSURF 20 and 10G as SB10 but R = 2 µm
06960037	SB20 probe for RUGOSURF 20 et 10G for grooves of depth < 5 mm
06960038	SB30 probe for RUGOSURF 20 and 10G for small bores of Ø > 4 mm
06960039	SB40 Probe for RUGOSURF 20 and 10G V-shape for cylinders of Ø > 1 mm
06960040	SB50 probe for RUGOSURF 20 and 10G for concave surfaces and for measuring at 90° with RUGOSURF 10G
06960057	SB110 probe for RUGOSURF 20 and 10G for concave or convex surfaces, R > 5 mm
06960056	100 mm extension for probe with skid for RUGOSURF 20, 10G, 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)

STANDARD ACCESSORIES:	
06960036	SB10 standard probe for RUGOSURF 20 and 10G R = 5 µm, 90°
06960041	Roughness standard Ra = 2,97 µm (117 µin)
06960045	Battery NiMH 7,2 V, 300 mAh, format PP3 for RUGOSURF 20 et 10G
056631	Adjustable vertical positioning suports (2 parts) V-form for cylinder Ø > 100 mm for RUGOSURF 10G
06960047	Transport case with internal protection foam for RUGOSURF10-10G