TESA RUGOSURF 20

Portable roughness gauge, robust and versatile.
Well suited for production environments or inspection of inward goods.

Measures roughness parameters according to:
– ISO 4287
– JIS B0601
– DIN and ISO 12085 (MOTIF or CNOMO).

Measuring range in the Z-axis of 400 µm (6300 µin).
15 roughness parameters.
Each parameter can be activated individually or not.
Possible tolerancing of parameter values.

Scope of supply

Direct display:
– of all measured values, with tolerance levels diplay,
– of R roughness profile,
– the Bearing Area Curve (BAC),
– the Amplitude Distribution Curve (ADC).

With a measuring stand with suction base

2" Black&White LCD screen, high contrast for optimum visual representation.
Flexible autonomy through mains adapter or battery pack.
Storage of the measured parameters.
Multilingual menu options.
USB cable connection (optional).
Direct printing to a dot matrix printer (optional).
Measurement transfer, database creation and reporting available using TESA RUGOSOFT software tool (optional).
Access to narrow and hard to reach locations possible through 100 mm probe extension (optional).

Measurement of narrow hard to reach crevices thanks to the 100 mm probe extension

With vertical positioning support

ISO 3274 (Cl.1)

122 x 60 x 62 mm (without probe)

USB

650 g

Description:
1. Start / Measure
2. Probe protection
3. LCD 2" screen
4. Enter key
5. Defilement key
6. Return key / Measurement parameters
7. ON/OFF Switch
8. Batter charger connector
9. USB Connector for PC
10. Printer connector

		06930013
		TESA RUGOSURF 20 portable surface roughness tester for use in the workshop Z = ± 200 µm (± 0.0079 in) X = 16 mm (0.63 in)
	Measuring span, µm	400 µm (0.0157 in) on Z axis, 16 mm (0.63 in) on X axis
	Indication span, µm	Ra = 0 ÷ 100 µm; Rt = 0,05 ÷ 400 µm
	Accuracy class	in accordance with ISO 3274 Class 1
	Measuring force, N	0,75 mN in accordance with ISO 3274
	Resolution, µm	0,001 µm
	Display	LCD 2" black/white (160 x 100 pixels)
	Roughness parameters	DIN / ISO / JIS / ASME: Ra, Rq, Rt, Rc, RSm, RPc Rmr, Rz, Rmax PPc, Pmr MOTIF ISO 12085 (CNOMO): Pt, R, Rx, AR
	Graphics	Bearing Area Curve (BAC), Amplitude Distribution Curve (ADC), Profile-R
	Cut-off lenght, mm	0,25 – 0,80 – 2,50 mm (0.010 – 0.030 – 0.100 in)
	Number of cut-off	1 to 5
	Stylus diamond tip (R = µm; angle °)	R = 5 µm, 90°
	Memory capacity	max 1000 measurements with parameters; max 20 mesurements with profile and graphics
	Dimensions, mm	122 x 60 x 62 mm
	Degree of protection for keyboard (IP XX)	IP67 (membrane keyboard)
	Digital data output (USB)	USB cable connector to PC
	Weight, g	650 g
	Included in delivery	RUGOSURF 20 SB10 standard skid probe Roughness standard Ra = 2,97 µm Positioning pin Ø 8 mm for use vertically Detachable probe protector Integral rechargeable battery Charger and adapter EU/US User manual Plastic carrying and storage case
	Measuring response time	1 to 10 s
	Probing speed, mm/s	1 mm/s (2 mm/s probe retract to measuring position)
	Units	mm or inch
	Power supply	100 ÷ 240 VAC; 50 ÷ 60 Hz; 12 V, 400 ÷ 650 mAh

OPTIONAL ACCESSORIES:

04760099	Cable RUGOSURF 20 to PC
06960033	Printer for RUGOSURF + cables
06960034	RUGOSOFT Software + Dongle
06960035	Granite 400 x 250 mm with vertical support H150 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
057655	Vertical and adjustable positioning supports (2 parts) V-form for cylinder Ø > 100 mm for RUGOSURF 20
057941	Transport case with internal protection foam for RUGOSURF 20