

TESA RUGOSURF 10 G



A NEW TOUCH OF SENSITIVITY

HEXAGON METROLOGY



The very latest portable surface roughness gauge from TESA. Being compact and versatile, this gauge can equally be used for incoming or surface finish inspection on the shop floor or in the measurement laboratory. Among other benefits, the tool will measure roughness parameters to ISO 4287:1997, DIN/ISO 2085:1998, MOTIF or CNOMO standards.



A NEW TOUCH OF SENSITIVITY



90° probe rotation

TESA RUGOSURF 10 G MAIN FEATURES

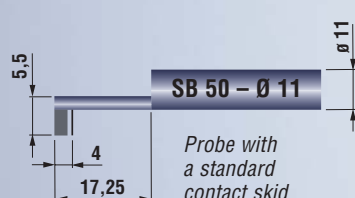
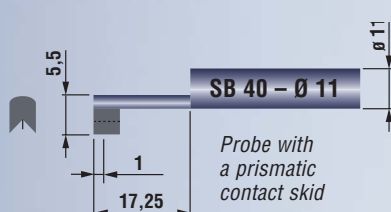
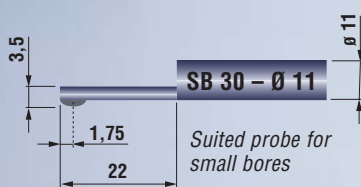
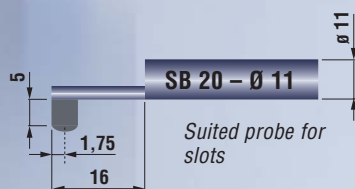
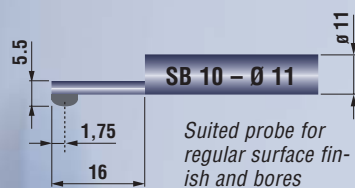
- Robust construction
- TFT colour display 2" for enhanced viewing of the roughness parameters or part profiles shown graphically
- Versatile, easy-to-use roughness gauge
- Possible tolerancing of the measured parameters
- Comprehensive range of accessories suited for all measurement tasks
- Interchangeable inductive probes
- 90° probe rotation
- RS 232 digital output to printer or PC running RUGOSOFT (optional for both)
- Wide memory capacity for all measured parameters
- Power supply through rechargeable battery
- Multilingual, menu-driven (English, French, German, Italian, Spanish, Portuguese)

TECHNICAL DATA

Table of measured roughness parameters

International Standards										
ISO 4287	Ra	Rq	Rt	Rz	Rp	Rv	Rc	RSm	Rδc	Rpc
1997	Rk	Rpk	Rvk	Mr1	Mr2					
	Pa	Pq	Pt		Pp	Pv	Pc	PSm	Pδc	Ppc
DIN	Rmax	R3z	R3zm							
ISO 12085	R	AR	Rx	Rke	Rpke	Rvke				

CHOICE OF PROBES



Measuring range	0 ÷ 300 µm / 0 ÷ 12 µin
Resolution	0,005 µm / 0,02 µin
Cut-offs (l _c in mm)	0,25 0,8 2,5
Total length (l _m in mm)	1,25 4,0 12,5
Traversing length (l _t in mm)	1,50 4,8 15,0
	Possible selection of 2, 3, 4 or 5 cut-offs for the measurement (length from 0,75 to 16 mm)
Measurement units	mm / in
Keyboard	4-key keyboard protected against the penetration of dust particles and liquids
Available languages	FR, EN, DE, ES, IT, PT
Display screen	LCD TFT 2" with a resolution to 220x176 pixels, 65 000 colours
Probing system	Inductive
Diamond probe tip	R = 5 µm, 90°
Measuring force	0,75 mN according to ISO 3274
Gaussian filter	To ISO 11562
Memory capacity	30 part profiles and 30 000 measured values approx.
Digital output	RS 232
Overall dimensions	120x55x80 mm (gauge unit alone)
Weight	590 g
Packaging	Suited plastic case
Power supply	Built-in battery (7,2 V), mains supply or battery charger (110/240 V – 50/60 Hz)
Temperature ranges	10° to 40°C (operating) 10° to 50°C (storage)
Origin	Europe

DELIVERY PROGRAMME

TESA RUGOSURF 10G

06930011 Roughness Gauge

Provided with the following standard accessories:

- Roughness specimen, Ra = 2,97 µm/117 µin
- Rechargeable battery 7,2 V, 120/150 mAh, NiCd or MiMH in PP3 format
- SB10 standard probe type
- Battery charger
- Adapter for standard stand with a 8 mm dia.
- Positioning support
- Instructions for use with a declaration of conformity

Optional Probes

06960036 SB10

For regular surface finish and bores, external diameters >10 mm, internal diameters from 6 mm.

06960037 SB 20

For slots with depth up to 5 mm max.

06960038 SB 30

For small bores with a 4 mm least diameter, 20 mm in depth.

06960039 SB 40

With a prismatic contact skid for measuring cables, external diameters >1 mm

06960040 SB 50

With front mounted contact skid for inspecting concave surfaces. Ideal for measuring through to 90°.

DOT MATRIX PRINTER

06960033 Dot matrix printer, 24 columns, supplied with:

- 1 rechargeable battery
- 1 connection cable to RUGOSURF 10G

06960043 Ribbon (3 items)

06960044 Paper roll, 57 mm in width (10 items)

STANDARD ACCESSORIES

06960035 Support with granite base, 400 x 250 mm

06960041 Roughness specimen, Ra = 2,97 µm/117 µin

06960042 External control switch

Additional accessories available upon request



Lc= 0.80
 4.30 [µm]
 20.02 [µm]
 25.33 [µm]
 21.67 [µm]
 13.37 [µm]
 Rq = 5.19 [µm]

200.00 µm

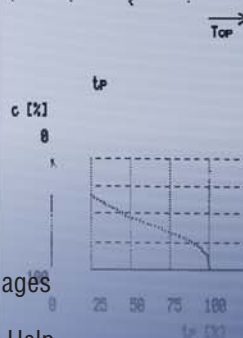


RUGOSOFT SOFTWARE

06960034

Provided with:

- CDROM for installation, 5 languages
- RS232 connection cable
- Instructions for use with On-line Help (available from the CDROM)



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