

# TESA RUGOSURF 20

Authorized Distributor: Willrich Precision  
Ph: 866-945-5742  
email: sales@willrich.com



Surface Roughness Testing

World first at Control 2011

## THE NEW ROUGHNESS TESTER ADAPTED FOR EVERY WORKSHOP

- COMPACT • ROBUST • EASY-TO-USE
- X-AXIS: 16 MM – Z-AXIS: 400  $\mu$ M
- 15 ROUGHNESS PARAMETERS WITH TOLERANCES
- PORTABLE PRINTER OR USB CONNECTION TO PC
- WIDE RANGE OF STANDARD ACCESSORIES
- BUILT-IN MEMORY



- 4 PROTECTED OPERATING KEYS
- MEASUREMENT WITH SKIDS
- INTEGRATED BATTERY
- PRECISION TO ISO 3274

ISO 9001

HEXAGON  
METROLOGY



## EXCEPTIONALLY ROBUST

*Dependable, powerful drive unit located in a light alloy basis. The interchangeable probe is inductive, therefore not subject to wear. Also fitted with a dedicated diamond stylus tip that can withstand any test.*

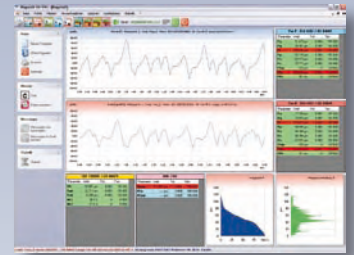
Designed for various applications using the accessories included in the delivery scope for use with any universal support having a 8 mm diameter. Adjustable measuring height up to 35 mm, without the need for an additional support.



Technical Data to Rugosurf 20	
Order number	06930013
Display	Black & White LCD Display, 2" (160x100 pixels)
Roughness parameters	As per ISO 4287-1997/JIS B0601/ASME B46-2002: Ra - Rq - Rt - Rz - Rc - Rsm - Rmr - Pt - Pmr As per DIN 4768: Rmax As per EN 10049: RPC - Ppc As per ISO 12085 (CNOMO): R - Rx - AR
Measuring spans	X-axis = 16 mm / Z-axis = 400 µm
Measurement units	mm/inch
Range of indication	Ra 0 ÷ 100 µm, Rt 0,05 ÷ 400 µm
Resolution	0,001 µm
Cut-off lengths	0,25-0,8-2,5 mm
Probing speed	1 mm/s
Number of cut-offs	1 to 5
Precision	ISO 3274, Class 1
Keypad	4 protected buttons
Stylus tip	R = 5 µm, 90° (optionally 2 µm, 60°)
Measuring force	0,75 mN (ISO 3274)
Languages	English, French, German, Italian, Spanish, Portuguese, Chinese
Memory capacity	20 Measurements with additional graphics or >1000 measurements with roughness parameters
Power supply	7,2 V integrated battery, 300 mAh, NiMH PP3
Battery life	~ 1000 measurements
Overall dimensions	122 x 60 x 62 mm
Weight	650 g
Delivery scope	Roughness standard, Ra = 2,97 µm (117 µin) Clamping shaft for the 8 mm dia. universal support Positioning holders Standard SB10 probe Rechargeable battery (already mounted) Charger, 220/110 V

### Rugosoft, release 3.0 No. 06960034

Software for storing and printing out the measurement results, but also for saving any graphical representations. Can also be run for the control of all setting and measurement operations.



### USB/Mini USB Cable No. 04760099

### Portable Printer No. 06960033

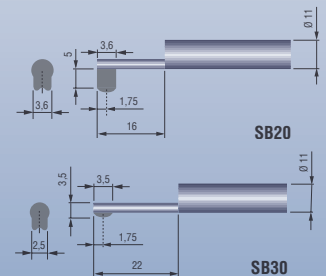
Battery-powered matrix printer directly connected to used gauge from the Rugosurf family. Capable of outputting all measurement results according to the selected print format, with or without graphics.



### Optional Probes

**SB20 No. 06960037**  
Probe for deep grooves up to 5 mm.

**SB30 No. 06960038**  
Probe for bores with diameters from 4 mm.



*Additional accessories and probes available.  
(See the Product Info or our general catalogue for details.)*

**Authorized Distributor:**  
**Willrich Precision**  
**Ph: 866-945-5742**  
**email: sales@willrich.com**

Printed in Switzerland - All modifications reserved - 6912.022.1104

**TESA SA Switzerland**  
Bugnon 38  
CH-1020 Renens  
Vente Suisse  
Tél. +41 (0)21 633 16 00  
Fax +41 (0)21 633 17 57  
tesa-ventech@hexagonmetrology.com

**TESA FRANCE SAS**  
2 rue Antoine Lavoisier  
Pôle Lavoisier - Bâtiment A  
F-54300 Moncel-lès-Lunéville  
Tél. +33 (0)3 83 76 83 76  
Fax +33 (0)3 83 74 13 16  
tesa-france@hexagonmetrology.com

**TESA Technology  
Deutschland GmbH**  
Netzstraße 32  
D-71638 Ludwigsburg  
Tél. +49 (0)7141 8747 0  
Fax +49 (0)7141 8747 88  
tesa-de@hexagonmetrology.com

**TESA Technology UK Ltd.**  
Metrology House  
Halesfield 13  
Telford, Shrops. TF7 4PL  
Tél. +44 1952 681 349  
Fax +44 1952 681 391  
tesa-uk@hexagonmetrology.com

**TESA Technology ITALIA s.r.l.**  
Via Bizozzero, 118  
IT-20032 Cormano (MI)  
Tél. +39 02 663 053 69  
Fax +39 02 663 090 82  
tesa-italia@hexagonmetrology.com

**TESA Technology Ibérica**  
Av. de Vizcaya s/n  
Apart. 202  
ES-48260 Ermua  
Tél. +34 943 170 340  
Fax +34 943 172 092  
tesa-iberica@hexagonmetrology.com

**TESA Benelux**  
Pascal Siebens  
Van Elderenlaan 1  
NL-5581 WJ Waalre  
Tél. +31 (0)40 222 06 08  
Fax +31 (0)40 222 17 16  
tesa-benelux@hexagonmetrology.com

**TESA SA - Bugnon 38 - CH-1020 Renens - Switzerland - Tel. +41(0)21 633 16 00 - Fax +41(0)21 633 75 35 - www.tesabs.ch - tesa-info@hexagonmetrology.com**