## ACCESSORIES

**Software Virtual Printer**
Code: 1414
Software Virtual Printer that allows to create print reports on Excel from measurements data.

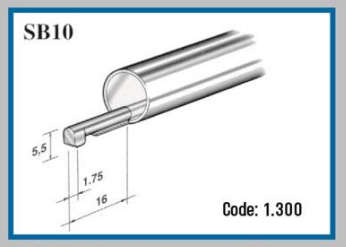
**Extension**
Code: 1406
Probe extension of 100 mm for measuring inside deep holes.

**External push-button**
Code: 1405
Button for the remote measure.

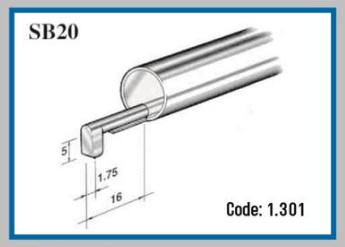
**Stativo ST1**
Code: 1400
Granite stand ST1 is composed of 400 mm x 250 mm granite and a positioning column. Maximum height reached from the granite is 150 mm.

**Software MS lite**
Code: 1403
Measurement Studio Lite software allows you to download measurements and profiles, archive and statisticalise them as well as pre-configure the reports to print them.

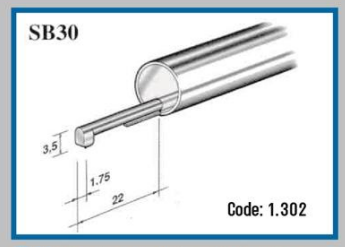
## PROBES



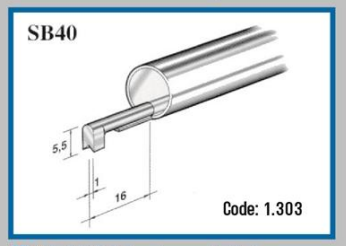

**SB10** - Standard probe for plane surfaces or diameters internal/external larger than of 10 mm.



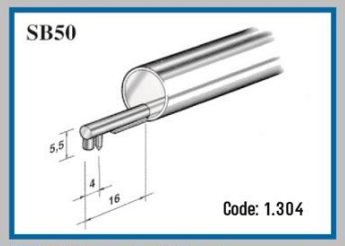

**SB20** - For plane surfaces, grooves and shoulders with depth up to 5 mm.



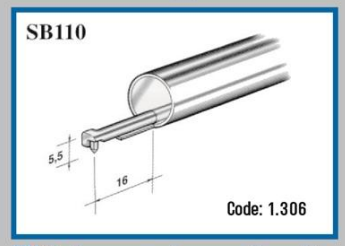

**SB30** - For planes and holes with diameters more than 4mm and deep up to 20mm.




**SB40** - "V" skid, for wires, and cylinders with external diameter more than 1 mm.




**SB50** - With anterior skid, for plane or curve surfaces, ideal for measuring at 90°.




**SB110** - For concave and convex surfaces with minimum radius of 5 mm.

## TECHNICAL DATA

| | | |
|---|---|---|
| Roughness parameters | RT10<br>11 parameters:<br>ISO 4287 - Ra, Rq, Rt, Rz, Rc, RSm, Rmr<br>ISO 12085 - Pt, R, AR, Rx | RT10G<br>31 parameters:<br>ISO 4287 – Ra, Rq, Rt, Rp, Rc, Rv, Rsm, Rdc, Pa, Pq, Pt, Pp, Pc, Pv, Psm, Pdc, RPc, PPc<br>ISO 13565 – Rk, Rpk, Rvk, Mr1,Mr2 - ISO 12085 (CNOMO) – Pt, R , Rx, AR<br>Altri – R3z, R3zm, Rmax |
| Unit system | Millimetres and inches | Millimetres and inches |
| Cut-off length | 0,25 - 0,8 - 2,5 mm | 0,25 - 0,8 - 2,5 mm |
| Evaluation length | Fino to 16 mm | Fino to 16 mm |
| Measure range | ±150 µm | ±300 µm |
| Resolution | 0,005 µm | 0,001 µm |
| Numerical filter | Gaussian accordant with ISO 11562 | Gaussian accordant with ISO 11562 |
| Interface | 132x32 monochromatic graphical LCD display | 2" TFT colour display and waterproof membrane keyboard with 4 keys |
| Languages | Italian, English, French, German, Spanish and Portuguese | Italian, English, French, German |
| Memory | Up to 1000 measurements | Up to 1000 measurements |
| Probe | The inductive probe is able to rotate to 90° for lateral measures | The inductive probe is able to rotate to 90° for lateral measures |

**CENTRO SIT**
per la rugosità
n° 41

Metrology Systems

# Roughness tester
# RT10 - RT10G

## The best way to measure


www.sm-instruments.com

## DIFFICULT MEASURES

Can the control of one particular be more difficult than its construction? We think no!
The roughness tester RT10 and RT10G are the results of this philosophy: high manageability and ease of use.
To make a measurement and display graphs or parameters you just have to press a button. Measure the roughness? As simple as a click!

With a simple act, the probe can rotate to 90° in both directions allowing you to measure transversally even most complex pieces.

The removable nose lets you measure with only one hand assuring a stable support also on more difficult geometries.

The instrument is equipped with two removable supports that make positioning easier on the part.

## Top 10 reasons to choose RT10 and RT10G

RT10 – RT10G

### Ease of use
Shortcut keys for quick access to common functions

### Readability
LCD display for easy reading of results

### Connectivity
USB interface to PC, printer and remote start button

### Rapidity
Self-centering of the probe for quick measuring

### Reliability
Always accurate measures due to nanometric sensors

### Controllability
Measurements with only one hand thanks to considerably reduced size and weight

### Flexibility
Rotation of the probe to 90° to enter laterally into the grooves

### Simplicity of measure
Support with a "V" shape for the direct measurement on curved surfaces

### Interchangeability
Interchangeable probes thanks to the connector plug-in

### Robustness
Alloy anodized base and removable nose protection

## THE EQUIPMENT INCLUDES

- Roughness tester RT10 or RT10G combined with probe SB 10
- Battery charger unit 110-220V
- Positioning supports
- Shaft with 8 mm diameter for mounting on the stand
- Roughness standard Ra 2,97 µm
- Printer PR10 (optional)
- Software Measurement Studio Lite with USB cable (optional)

## Code: 1.100 RT10

The roughness tester RT10 is the easiest instrument of the range. This device is ideal for measuring the part directly in the workshop or near production machines. The ease of use makes it suitable for all those needs where the roughness of the piece has to be characterized only numerically: in these conditions the analysis is very quick. Due to its internal memory, manoeuvrability and integrated battery, the RT10 is perfect for measuring in difficult environments, for example if you have to analyse large or complex details.

The RT10 Plus (code: 1.101) has the connector plug-in that allows interchangeability of the probe, ensuring the possibility of measuring on all surfaces simply by replacing the stylus with the right one.

## Code: 1.102 RT10G

The roughness tester RT10G comes from the experience gained on RT10; it inherits the reliability and ease handling and it is enhanced by advanced analysis typical of instruments you can find only in metrological laboratories. In addition to the 31 calculated roughness parameters, the RT10G displays graphs of the roughness and primary profile, curves of portance, ordinate distribution and allows you to set the tolerances on individual parameters and personalize reports. The RT10G uses the new electronics components with a resolution of 0.001 µm which provide more reliable results and present them in an easy and intuitive manner, thanks to the internal menu based on icons and derived from modern Smartphone.