

# LITEsurf ROUGHNESS TESTER

The first Smart Roughness Tester



Bluetooth and USB connection



The new LITEsurf roughness tester is the simplest of the range. It born from the forty years of experience that SM has in the design of roughness testers and is ideal for measuring details directly on work islands or in production machines.

This is why we know very well what are the characteristics that are really necessary for an instrument of this family that must work there, right together with you.

The LITEsurf, thanks to the integrated Bluetooth and USB connection, allows you to connect it to Smartphones, Tablets and PCs in an intuitive and fast way, then sharing the information with the rest of the world thanks to the free APP "Roughness studio basic" included.

With a single instrument it is possible to measure details horizontally, vertically, below / above. Through the 90 ° laterally rotatable probe preloaded, each area of the piece is measurable.

The light alloy body machined from solid combined with a PC / ABS shell that guarantees high rigidity with high impact resistance. Furthermore, the sophisticated integrated refill management system guarantees an autonomy of 10 hours of work and at least 300 measurements in 50 minutes.



## ST1 granite stand dimensions 400x250 mm - code: 1.400

The ST1 model granite stand allows the roughness tester to be positioned in a stable and permanent way. The instrument is fixed to the arm of the manual positioning column by means of an 8mm diameter tang, thus allowing the creation of a fixed control station.

This system guarantees maximum comfort and at the same time eliminates vibrations from the external environment, as well as guarantees the safety of the instrument from possible bumps and accidental falls.



## SB51 plug-in rotatable optical transduction probe for 90° measurements as standard - code: 1.706

The probe is equipped with an innovative optical transduction system that guarantees high resolution and repeatability of the measurements. It is also possible to rotate it perpendicular to the translation movement to perform measurements in points that would be difficult to reach.

The probe, equipped with a plug-in connector, is interchangeable, and it is therefore possible to replace it quickly in the event, for example, of accidental damage or if there are now more probes for different measurements, in fact the operator can easily change it according to the current measurement requirement.



## Bluetooth thermal printer - code: 1.422

The small and handy Bluetooth thermal printer allows you to print the values and graphs of the last roughness measurement carried out or of the memo that we have saved in the instrument.

Equipped with a battery, it can be recharged by connecting it to any USB port thanks to the supplied cable.



## Roughness Studio APP for Android and Windows devices - Basic APP code: 1.423 - Premium APP code: 1.424

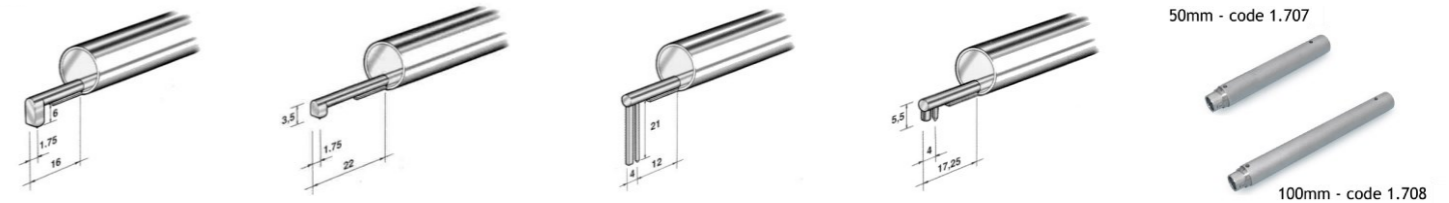
With the standard Roughness Studio APP, the instrument can be connected to an Android or Windows device and allows you to download measurement data in real time or at a later time from the internal memory of the roughness tester.

In addition, the APP allows the creation of diversified measurement codes for each type of product with different measurement settings, it automatically synchronizes the instrument's date and time and allows the measurement to be started remotely. The connection is made via Bluetooth or USB cable, the latter guarantees to perform measurements while the instrument recharges the battery.

Roughness Studio APP for Android or Windows devices - Basic version code: 1.423 - Premium version code: 1.424



Probe SB21 - code: 1.704    Probe SB31 - code: 1.705    Probe SB121 - code: 1.710    Probe SB51 - code: 1.706    Extension: 50 or 100 mm



## Technical data and dimensions

<b>Product code:</b>	LITEsurf (code: 1.110)
<b>Measuring range:</b>	250 um (+ 50 um -200 um)
<b>Resolution:</b>	0,001 µm
<b>Accuracy class:</b>	1° ISO/DIN
<b>Cut-off length:</b>	0,25 - 0,8 - 2,5 mm
<b>Number of cut-off:</b>	Selectable from 1 to 5
<b>Exploration travel:</b>	Until 17,5 mm
<b>Probe:</b>	Optical transduction system , 90° rotatable for lateral measurements
<b>Measurement parameters:</b>	8 parameters (on board) ISO: Ra, Rq, Rt, Rz, Rc, Rmax, RSm, R <sub>Pc</sub> , MOTIF: Pt, R, AR, Rx, P <sub>pc</sub>  44 parameters (with APP Roughness Studio PREMIUM) ISO: Ra, Rq, Rt, Rz, Rp, Rv, Rc, Rsk, Rku, RSm, RΔq, RΔa, Rmax, Rδc, Rmr, R <sub>Pc</sub> , RLo, Rlr, Rzjis, RHSC, R3z, hp, Ep JIS: Ra, Rq, Ry, RzJIS, tp, RSm, S ASME: Rp, Rpm, R <sub>Pc</sub> , Rsk, tp MOTIF: R, AR, Rx Rke, Rpke, Rvke, Mr1e, Mr2e, A1e, A2e
<b>Unit of measure:</b>	Millimeters and inches
<b>Interface:</b>	Monochrome OLED display and 3 waterproof membrane buttons
<b>Language:</b>	Italian, French, English, German, Spanish, Portuguese
<b>Memory:</b>	Approx.18000 parameters only (0,8mm x 5) - Approx.30 with profile (0,8mm x 5)
<b>Autonomy:</b>	10 hours of work and at least 300 measurements
<b>Connectivity:</b>	Integrated Bluetooth and USB, connection to Smartphone, Tablet and PC
<b>Standard equipment:</b>	LITEsurf roughness tester, USB charger, USB type C cable, 8mm diameter tail piece for mounting on the stand, roughness specimen, transport case, user manual

