

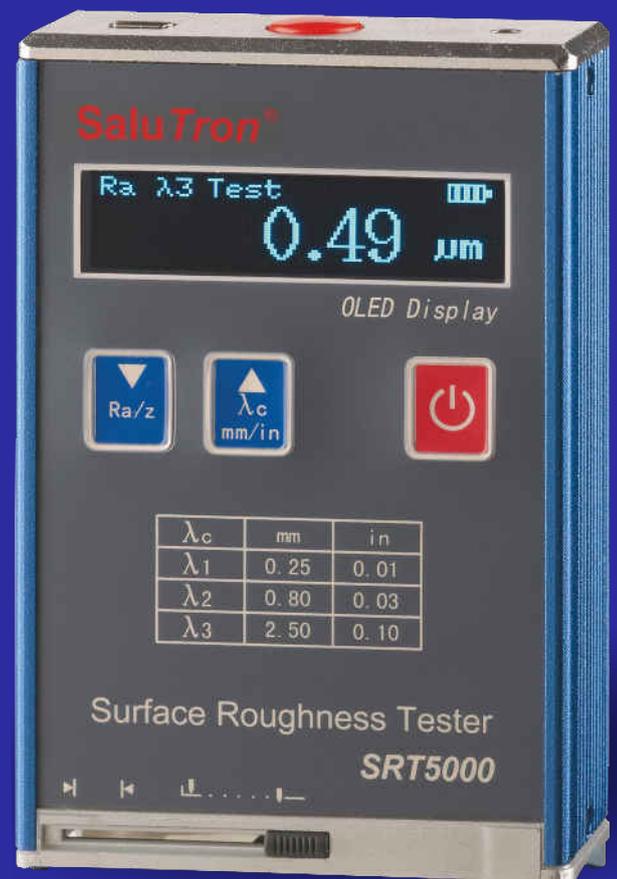
Portable Surface Roughness Measurements

Ra, Rz, Rq and Rt roughness parameters in a single device

Piezoelectric probing system

Easy calibration using the keyboard

DSP chip for data processing and calculation (enables fast data processing)



SRT5000

State-of-the-art technology for highly accurate testing



Surface roughness tester **SRT5000**
Portable Surface Roughness Measurements to determine Rz, Ra, Rq and Rt.

The portable surface roughness tester SRT5000 is a product featuring highly accurate measurements, a large measuring range, and excellent performance. The device is very well suited for use on metal and non-metal. Thanks to its handy size and integrated probing system it can be used effortlessly in on-site manufacturing processes.

Features

- Surface roughness tester offering excellent value for money
- Piezoelectric probing system
- OLED liquid crystal, illuminated display with adjustable contrasts
- Dynamically shows measuring progress on the display
- Rechargeable, long-life, fast-charging lithium-ion batteries
- Acoustic and visual warning signals when lithium-ion batteries are low
- Integrated sliding cover to protect the probe stylus
- Turns itself off automatically after 2 minutes
- Acoustic „Start Test Ready“ signal
- Ra, Rz, Rq and Rt roughness parameters in a single device
- Easy calibration using the keyboard
- USB port for connecting the charger cable
- Full LCD dot matrix and interface notifications DSP chip for data processing and calculation (enables fast data processing)

Measuring principle

During the measuring process, the sensor makes inline movements along the probing path. The stylus moves up and down in accordance with the probing path profile. These movements are translated into electric signals, which are amplified, filtered and converted into digital signals using an A/D converter. The CPU then processes these signals as Ra and Rz results (or Rq and Rt results) and shows them on the display.

Application

- Measures roughness of hard surfaces
- For example at: Labs, measuring rooms, workshops, engineering facilities, and many more

Standard delivery range

- Device **SRT5000** with integrated micro probe
- Roughness standard
- Battery charger
- Service case
- Operating instructions

Specifications	
Roughness parameters:	Ra (ISO), Rz (DIN), Rq, Rt
Units of measurement:	μm , μinch (adjustable)
Measuring range:	Ra: 0.05 – 15.0 μm Rz: 0.1 – 50 μm
Cut-off length:	0.25 mm / 0.80 mm / 2.50 mm
Filter:	2 CR
Display:	LED, blue
Probing path:	6 mm
Probing speed:	1.0 mm / Sec.
Accuracy:	Acc. to ISO class 3, EN55022, EN60555-2, EM60555-3, EN50088-1
Measuring principle:	Probing system, piezoelectric
Stylus:	Diamond, 5 mm radius
Power supply:	3.6V lithium-ion batteries, 9VDC charger
Dimensions:	L106 x W70 x H24mm
Weight:	200 g
Calibration:	With CAL function (using the keyboard)
Minimum diameter of cylindrical parts:	40 mm (V groove)
Main functions:	Main functions Reading selection: Ra, Rz, Rq, Rt; measuring length adjustment; calibration function; automatic charge status control with acoustic signal; battery charging function, tester can be used while the battery is charging.
Environmental conditions:	Operating – 0°C– 40°C ambient temperature – < 80% relative humidity – Avoid vibrations; do not measure corroded surfaces



Certified according to ISO EN 9001

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