

SUHNER®
ABRASIVE

Success is measurable

MSRT-1000



SUHNER
ADVANCED COMPONENT CREATION



MSRT-1000 Success is measurable

The MSRT-100 is a portable surface roughness tester which has a high level of measuring accuracy and is incredibly easy to use, particularly in workshops and in production. It is optimal for determining the surface roughness (Ra, Rz, Rq and Rt) of both metallic and non-metallic surfaces.

Its compact and robust design means that it can be used for a variety of applications. To support this, it also features an illuminated OLED display, with excellent visibility, enabling you to read from it quickly.

The device can be operated for several hours thanks to its lithium ion battery, which wins users over thanks to its short charging time (3h) via USB interface as well as its long service life. If it is not being used, the device switches off automatically after a few minutes.

It is easy to use, which means that even inexperienced users can obtain reliable measuring results with it.

MSRT-100 surface roughness tester
Mat. no.: 101000274

Scope of delivery:

- 1 × MSRT-1000 surface roughness tester
- 1 × Roughness standard plate, two-part
- 1 × USB charger incl. EU / USA mains adapter
- 1 × Operating instructions
- 1 × Carry case

Application:

- Determination of the surface roughness following mechanical processing, e.g. grinding
- Suitable for use in the workshop

Specifications					
Roughness properties	Units	Measuring range	Measuring range	Measuring accuracy	Measuring repeatability
Ra (ISO), Rz (DIN), Rq, Rt	μm, μ-inch (switchable)	Rz, Rt 0.10 – 50 μm	Ra, Rt 0.05 – 15.0 μm	+ 15%	< 12%
Cut-off lengths	Total sampling length	Sampling speed	Probe system	Probe tip	Angle of inclination
0.25 mm / 0.8 mm / 2.5 mm	6 mm	1 mm/s	Piezoelectric sensor	Diamond, 10 μm ± 1 μm tip radius	90° (+5° or -10°)
Display	Power supply	Charger	Charging time	Weight	Dimensions (H × B × D)
OLED display, blue	3.7 V, Li-ion battery	5V DC	3 hours	0.200 kg	106 × 70 × 24 mm

Accessories			
	Name	Description	Mat. no.
	Roughness standard plate	For dimensioning the device using a calibration standard	101 000 335

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