

Portable Surface Roughness Tester

This portable surface roughness tester employs a high-accuracy inductive pickup. It is compatible with ISO1997, ANSI, and JIS2001 standards and offers 2RC and GAUSS filtering methods.



Overview

Precision Surface Texture Analysis

This portable surface roughness tester features a separated design with a mini driver for enhanced usability in diverse testing environments. It supports multi-parameter measurement including Ra, Rz, and Rq, and utilizes high-accuracy inductive pickup technology for reliable results. The device offers extensive compatibility with international standards such as ISO1997, ANSI, and JIS2001, making it an essential tool for quality control and precision engineering applications.

Measurement Capabilities

Accuracy & Repeatability

10 %

Accuracy (d)

6 %

Repeatability (d)

Measured Parameters

Ra, Rp, Rv, Rt, Rz, Rq, Rsk, R³q, R³a, Rku, Rc, R_{Pc}, R_{Sm}, R_{mr}(c), tp, R_{mr}, R_{pm}, Rz1max, RzJIS, R_{max}, H_{tp}, R_c, Pa, Pp, Pv, Pt, Pz, Pq, Psk, Pku, Pc, P_{Sm}, P_{mr}(c), P_{mr}, Pz1max, PzJIS, P_c, P³q, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2

Measurement Range

400 μ m

Technical Specifications

Stylus Specifications

Feature	Specification
Tip Radius	5 μ m / 2 μ m
Tip Material	Diamond
Tip Angle	90° / 60°
Measuring Force	4mN / 0.75mN

Traversing Speed

- 0.08mm cutoff: 0.25mm/s
- 0.25mm cutoff: 0.25mm/s
- 0.8mm cutoff: 0.5mm/s
- 2.5mm cutoff: 1mm/s
- Returning: 1mm/s

Connectivity & Standards

Standards Compliance
ISO1997 • ANSI • JIS2001

Data Interfaces	RS232, USB
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Physical Attributes

Dimensions	155.4 x 75 x 53 mm
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Weight	580 g
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