

SURFACE WAVINESS & ROUGHNESS TESTER / PROFILOMETER - QUALISURF™ III-PLUS

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STANDARDS

ANSI

ISO 1997

JIS 2001

Unlock precision and versatility in surface analysis with the QualiSurf™ III Plus - a skid-less and skidded portable stylus surface waviness & roughness tester. This cutting-edge profilometer is designed for testing in workshops, laboratories, metrology centers, and more. It excels in measuring roughness, waviness, and primary profiles, providing digital and graphical test results on the screen while enabling data output to a PC for in-depth profile analysis.

APPLICATIONS

Surface Waviness & Roughness Tester / Profilometer - QualiSurf™ III-Plus Overview

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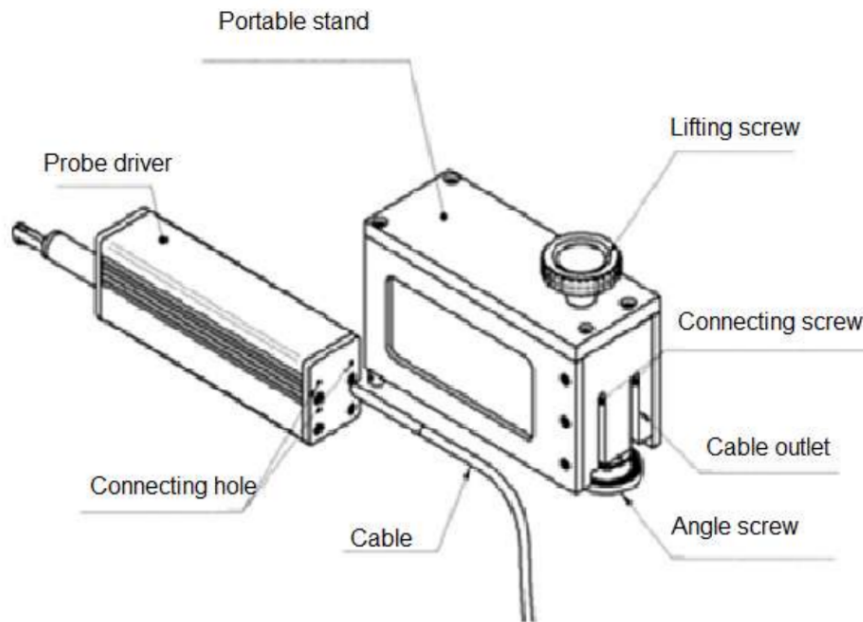


Surface Waviness & Roughness Tester / Profilometer - QualiSurf™ III-Plus Key Features:

- **Windows Operating System:** High calculation accuracy, rapid data processing, and a user-friendly interface.
- **Skid-less and Skidded Pick-up Stylus:** Efficiently test curved surfaces' roughness with a detachable probe stylus.
- **Comprehensive Measurements:** Capable of measuring surface roughness, waviness, and primary profiles.
- **Wide Measuring Range:** Covers up to 1000µm with a maximum tracing length of 50mm.
- **5.7-inch TFT LCD Screen:** Displays evaluation curves clearly and conveniently.
- **Touch Screen:** Easily set required parameters via the touch screen.
- **Mouse Operation:** Allows for smooth navigation.
- **Large Data Storage:** Store up to 10,000 sets of measuring conditions and data.
- **Data Storage on U Disk:** Convenient data backup and transfer.
- **Powerful Analysis Software:** Included for in-depth examination of measurement data.
- **Compliance:** Conforms to roughness standards, including ISO4287-1997, JIS 0601: 2001, ANSI, and SEP1941-2012.

Standard Delivery Includes:

- QualiSurf™ III Plus Main Unit.
- Standard Pick-up Stylus Probe.
- Probe Driver.
- Calibration Certificate.
- Portable Stand (for adjusting the stylus height).
- Software and USB Cable.
- Standard Plate.
- Battery Charger.
- Instruction Manual.



Unleash the power of precision surface analysis with the QualiSurf™ III Plus Surface Waviness & Roughness Tester - Profilometer, your ideal partner for assessing surface roughness, waviness, and primary profiles. Experience efficiency and reliability in one comprehensive package.

FEATURES

Surface Waviness & Roughness Tester / Profilometer - QualiSurf™ III-Plus

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TECHNICAL SPECIFICATIONS

Technical Specifications of QualiSurf™ III-Plus Surface Waviness & Roughness Tester / Profilometer:

Item	Description
Profile	R, W, P, R-Motif, W-Motif

Measuring parameters	See the Table 1 below
Filter	Gauss, 2RC
Cutoff Length	0.08mm, 0.25mm, 0.8mm, 2.5mm, 5mm, 8mm, 10mm
Evaluation length In	(1-5)l or setting by requirement
Measuring range	Y-axis:1000 μ m(\pm 500 μ m) X-axis: 50mm
Max. resolution	0.0003 μ m
Tracing length	50mm
Repeatability	1.5%(Skid) \square 3%(Skid-less)
Storage	10000 groups of measuring conditions and data
Interface	USB, RS232
Power	Built-in lithium-ion rechargeable batteries / External power adapter
Working temperature	0 $^{\circ}$ C~40 $^{\circ}$ C
Storage temperature	-25 $^{\circ}$ C~60 $^{\circ}$ C
Humidity	<90%
Main unit dimension	260mm \times 210mm \times 68mm
Main unit weight	1.5Kg
Driver dimension	195.5mm \times 60mm \times 122mm
Driver weight (with portable	1.58Kg
Power adapter	Input: 100 V~240VAC \square 50/60Hz; Output: 9V \square 3A

Available measuring parameters:

Standard	Profile Curves	Parameters
ISO1997	R	Ra, Rq, Rz, Rp, Rv, Rsk, Rku, Rc, R _{Pc} *, R _{Sm} , R _{Δq} , R _{mr} *, R _{mr(c)} *, R _{δc} *, Rt, Rz _{1max} , Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo
	P	Pa, Pq, Pz, Pp, Pv, Psk, Pku, Pc, P _{Pc} *, P _{Sm} , P _{Δq} , P _{mr} *, P _{mr(c)} *, P _{δc} *, Pt, Pz _{1max}
	W	Wa, Wq, Wz, Wp, Wv, Wsk, Wku, Wc, W _{Pc1} , W _{Sm} , W _{Δq} , W _{mr} *, W _{mr(c)} *, W _{δc} *, Wt, Wz _{1max}
JIS2001	R	Ra, Rq, Rz, Rp, Rv, Rsk, Rku, Rc, R _{Sm} , R _{ZJIS} , R _{Δq} , R _{mr} *, R _{mr(c)} *, R _{δc} *, Rt
	P	Pa, Pq, Pz, Pp, Pv, Psk, Pku, Pc, P _{Sm} , P _{ZJIS} , P _{Δq} , P _{mr} *, P _{mr(c)} *, P _{δc} *, Pt
	W	Wa, Wq, Wz, Wp, Wv, Wsk, Wku, Wc, W _{Sm} , W _{ZJIS} , W _{Δq} , W _{mr} *, W _{mr(c)} *, W _{δc} *, Wt
ANSI	R	Ra, Rq, Rz, Rp, Rv, Rsk, Rku, R _{Pc} *, R _{Sm} , R _{Δa} , R _{Δq} , H _{tp} *, t _p *, Rt, R _{max} , R _{pm}
	W	Wa, Wq, Wz, Wp, Wv, Wsk, Wku, W _{Pc} *, W _{Sm} , W _{Δa} , W _{Δq} , H _{tp} *, t _p *, Wt, W _{max} , W _{pm}



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