

SURFACE ROUGHNESS TESTER

SURFACE ROUGHNESS TESTER LEEB432A



FEATURES

- Five optional sensors for measuring special shaped work-pieces.
- DSP chip controlled achieves high accuracy and fast testing speed.
- Matrix LCD screen displays all parameters and data.
- High quality with ISO/ DIN/ CE/ JIS/ FCC standards.
- Power supply: 3.7V rechargeable Li-ion battery.
- Available PC software for data management and Excel reports.
- Optional printer connecting by USB.

STANDARD SENSOR

Detection Principle	Inductive
Material of stylus	Diamond
Radius of stylus	5µm
Stylus force	4mN(0.4gf)
Contact angle	90°

TECHNICAL SPECIFICATION

Model No.	Leeb432A
Roughness parameters	Ra, Ry, Rq, Rz, Rt, RSm, RS, Rp, Rv, R3z, RSk, Rmax, Rmr
Measuring range	Ra:0.005-16µm Rz:0.02-160µm
Resolution	0.001µm
Maximum driving trip	17.5mm/0.7inch
Sample length/Range (L)	0.25mm, 0.8mm, 2.5mm/±20µm,±40µm,±80µm
Evaluation length	1.25mm, 4mm,5mm/Option from(1-5)L
Filtering methods	RC, PC, RC, GAUSS, D-P.
Error of indication	± 10%
Variation of indication	<6%
Memory	100 Groups
Operating temperature	0 °C -40 °C
Weight	440g
Dimensions	119*47*65mm
Standard configuration	Main Unit, Standard sensor, Calibration block, Supporting platform, Power charger, Manual, Certificate, Warranty card, PC analysis software
Optional Accessories	Measurement Platforms , optional sensors , printer



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- Five optional sensors for measuring special shaped work-pieces.
- DSP chip controlled achieves high accuracy and fast testing speed.
- Matrix LCD screen displays all parameters and data.
- High quality with ISO/ DIN/ CE/ JIS/ FCC standards.
- Power supply: 3.7V rechargeable Li-ion battery.
- Standard Sensor: diamond stylus with radius 5μm, force 4mN(0.4gf), and angle 90°
- Available PC software for data management and Excel reports.
- Optional printer connecting by USB.

STANDARD SENSOR

Detection Principle	Inductive
Material of stylus	Diamond
Radius of stylus	5μm
Stylus force	4mN(0.4gf)
Contact angle	90°

TECHNICAL SPECIFICATION

Model No.	Leeb432
Roughness parameters	Ra, Ry, Rq, Rz, Rt, RSm, RS, Rp, Rv, R3z, R5k, Rmax, Rmr
Measuring range	Ra:0.005-16μm Rz:0.02-160μm
Resolution	0.001μm
Maximum driving trip	17.5mm/0.7inch
Sample length/Range (L)	0.25mm, 0.8mm, 2.5mm/20μm,±40μm,±80μm
Evaluation length	1.25mm, 4mm,5mm/Option from(1-5)L
Filtering methods	RC, PC, RC, GAUSS, D-P.
Accuracy	< ±8%
Repeat ability	<6%
Memory	100 Groups
Operating temperature	0 °C -40 °C
Weight	440g
Dimensions	119*47*65mm
Standard configuration	Main Unit, Standard sensor, Calibration block, Supporting platform, Power charger, Manual, Certificate, Warranty card, PC analysis software
Optional Accessories	Measurement Platforms , optional sensors , printer



SURFACE ROUGHNESS TESTER

SURFACE ROUGHNESS TESTER LEEB410



FUNCTION & FEATURE:

- Adapts high speed DSP processor to get fast measurement
- With OLED dot matrix indicator
- Shell: ABS engineering plastic injection, durable, anti-electromagnetic interference.
- with ISO/ DIN/ CE/ JIS/ FCC standards.
- Power supply: 3.7V rechargeable Li-ion battery.

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TECHNICAL SPECIFICATION

Model	Leeb410
Roughness parameter	Ra, Rz, Rq, Rt
Measuring range	Ra: 0.05-10.0µm Rz: 0.1-60µm
Resolution	0.01µm
Cut-off lengths	0.25mm / 0.8mm / 2.5mm
Evaluation length	1.25mm / 4mm / 5mm
Tracing length	6mm
Standard	ISO, DIN, ANSI, JIS
Error of indication	< ±10%
Variation of indication	<3%
Sensor	Piezocrystal
Arc Radius & Angle of Sensor	Radius of sensor stylus: 10.0±2.5µm Angle: 90°
Force & Change rate	Sensor stylus force: < 0.016N; change rate: < 800N/m
Stylus force	< 0.5N
Power supply	Rechargeable 3.7V Lithium-Ion battery
Operating temperature	0°C -40°C
Weight	180g
Dimensions	105*75*24mm
Standard configuration	Main Unit, Calibration block, Power charger, Supporting platform, Manual, Certificate, Warranty card



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SURFACE ROUGHNESS TESTER

SURFACE ROUGHNESS TESTER LEEB452



FUNCTION & FEATURE:

- Metal shell, stronger and anti-electromagnetic interference
- Adapts high speed DSP processor to get fast measurement
- With OLED dot matrix indicator
- Application for measuring flat surface, conical surface and also groove larger than 80°/30mm.
- with ISO/ DIN/ CE/ JIS/ FCC standards.
- Power supply: 3.7V rechargeable Li-ion battery.

TECHNICAL SPECIFICATION

Model	Leeb452
Roughness parameter	Ra, Rz, Rq, Rt
Measuring range	Ra:0.05-10.0μm Rz:0.1-50μm
Resolution	0.01μm
Cut-off lengths	0.25mm / 0.8mm / 2.5mm
Evaluation length	1.25mm / 4mm / 5mm
Tracing length	6mm
Standard	ISO, DIN, ANSI, JIS
Error of indication	< ±10%
Variation of indication	<6%
Sensor	Piezocrystal
Arc Radius & Angle of Sensor	Radius of sensor stylus:10.0±2.5μm Angle:90°
Force & Change rate	Sensor stylus forc: <0.016N change rate: <600N/m
Stylus force	<0.5N
Power supply	Rechargeable 3.7V Lithium-Ion battery
Operating temperature	0°C -40°C
Weight	200g
Dimensions	106*70*24mm
Standard configuration	Main Unit, Calibration block, Power charger, Supporting platform Manual, Certificate, Warranty card

