

Roughness Tester

PCE-RT 10

Roughness Tester for Ra, Rz

- parameters: Ra, Rz
- sophisticated inductive sensor (diamond)
- integrated lithium-ion rechargeable battery and high-capacity control circuit
- RS-232C interface



TECHNICAL SPECIFICATIONS

Measur. range	Ra 0.05 ... 10.00 / Rz 0.1 ... 50.0 µm
Accuracy	<15 %
Sensor radius	10 µm (sensor angle 90°)
Meas. force	16 mN
Max. traversed l.	17.5 mm
Cut-off wavel.	0.25 mm / 0.8 mm / 2.5 mm
Meas. distance	1 ... 5 cut-off wavelengths
Scanning speed	0.135 / 0.5 / 1 mm/s return: 1 mm/s
Resolution[µm]	0.001 (at <10 µm) / 0.01 (between 10 and 100 µm) / 0.1 µm (above 100 µm)
Power supply	lithium-ion rechargeable battery
Operating cond.	+0 ... +50 °C / <80 % RH
Dimens. / weight	30 x 80 x 128 mm / approx. 280 g

INCLUDES

Roughness meter, sensor, test plate, RS-232 cable, software, instruction manual

ITEM NO.	ITEM
K-PCE-RT 10	roughness meter

OPTIONAL ACCESSORIES

K-CAL-PCE-RT	ISO calibration certificate
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PCE-RT 11

Roughness Meter for Ra, Rz, Rq, Rt

- USB connection / OLED display
- simple calibration with roughness standard (incl.)
- suitable for cylindrical and sloping surfaces
- with sliding cover to protect the probe tip
- piezoelectric probe



TECHNICAL SPECIFICATIONS

Measur. range	Rz, Rt 0.1 ... 50 µm / Ra, Rq 0.05 ... 10 µm
Accuracy	±15 % (repeatability <12 %)
Cut-off wavelengths	0.25 mm, 0.8 mm and 2.5 mm
Traversed length	6 mm (total)
Scanning speed	1 mm/s
Probe system	piezoelectric probe
Probe diamond	point radius 10 µm ±1 µm
Angle of inclination	90° (+5° or -10°)
Display	OLED display
Power supply	3.7V li-ion rech.batt./charging t.3 h
Operating cond.	-20 ... +40 °C / <90 % RH
Dimensions / weight	106 x 70 x 24 mm / 200 g

INCLUDES

Roughness meter, roughness standards, carrying case, charger, instruction manual

ITEM NO.	ITEM
K-PCE-RT 11	roughness meter

OPTIONAL ACCESSORIES

K-CAL-PCE-RT	ISO calibration certificate
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PosiTector SPG

Roughness Meter for Peak Values

- 50 measurements per minute
- large monochrome LC display, easy to read
- glass and metal plates included
- protective rubber case with belt clip
- protected against acid, oil, water and dust
- factory calibration certificate



TECHNICAL SPECIFICATIONS

Measur. range	0 ... 500 µm
Accuracy	±5 µm + 5 %
Carbide tip	60°
Protection	against acid, oil, water, dust
Sampling rate	50 measurements per minute
Calibration	glass and metal plate
Interface	USB
Norm	ASTM D 4417-B, US Navy NSI 009-32
Display	monochrome display
Power supply	Ni-MH rechargeable batteries
Dimensions	137 x 61 x 28 mm
Weight	140 g

INCLUDES

Roughness meter, glass plate, metal plate, protective rubber case, batteries, carrying case, instruction manual

ITEM NO.	ITEM
K-PosiTector SPG	roughness meter

Accessories (optional)

K-CAL-PCE-RT	ISO calibration certificate
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PCE-RT 1200

Roughness Tester for Ra, Rz, Rq and Rt + Interface for PC

- measures Ra, Rz, Rq and Rt (complies with DIN 47729)
- measures boreholes from 6 mm in diameter and 5 mm in depth
- menu is easy to use
- large LC display with backlight
- memory for 7 series of measurement / RS-232 interface
- rechargeable lithium-ion battery (for 3000 measurements)



TECHNICAL SPECIFICATIONS

Measurement range	Ra: 0.005 ... 16 µm / Rz: 0.02 ... 160 µm
Parameters	Ra, Rz, Rq, Rt
Resolution	0.001µm (at <10µm)/0.01µm (at <100µm)/0.1µm (at >100µm)
Accuracy	class 2 according to DIN 4772
Display	LCD, with backlight, 128 x 64 pixels
Cut-off wavelengths	0.25 mm / 0.8 mm / 2.5 mm
Meas. distance	1 ... 5 cut-off wavelengths
Traversed length	(1 ... 5) + 2 cut-off wavelengths; diamond probe tip, rad. 5 µm
Interface	RS-232
Power supply	rechargeable lithium-ion battery, 1000 mAh
Operating cond.	0 ... +50 °C, <80 % RH
Dimensions / weight	140 x 52 x 48 mm (device without probe) / 420 g

INCLUDES

Roughness meter, micro probe (sensor), rechargeable battery, charger, roughness standard, case, instruction manual

ITEM NO.	ITEM
K-PCE-RT 1200	roughness meter

OPTIONAL ACCESSORIES

K-RT-1200-SW	software and RS-232 cable for data transfer
K-RS232-USB	adaptor for RS-232 to USB
K-CAL-RT	ISO calibration certificate
K-PCE-RT 1200-SR	replacement probe tip

PCE-RT 2200

Roughness Meter Ra, Rz, Rq, Rx, Rt, Rp, Rv, R3z, R3y, ...

- wide range of parameters
- DSP chip for control and data management processes
- large memory
- Automatic Power Off and energy saving function
- battery life of 20 hours (continuous)



TOP
seller

TECHNICAL SPECIFICATIONS

Meas. principle	Inductive	Meas. / point radius	160 µm / 5 µm
Probe tip material	diamond	Probe force	4 mN (0.4 gf)
Probe angle	90°	Guide head	Vert. radius: 45 mm
Max. traversed length	17.5 mm	Accuracy	< ±10 %
Repeatability	<6 %		
Parameters	Ra (0.005 µm ~ 16 µm); Rz (0.02µm ~ 160 µm) Rq, Rx, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr.		
Filters	RC, PCRC, Gauss, ISO13565		
Cut-off wavelengths	0.25 mm; 0.8 mm; 2.5 mm; 8 mm		
Memory	100 sets of original data		
Interface	USB		
Power supply	integrated rechargeable lithium-ion battery or mains adaptor		

INCLUDES

Roughness meter, micro probe (sensor), roughness standard with adaptor plate, USB cable, mains adaptor, case, screwdriver, certificate, instruction manual

ITEM NO.	ITEM
K-PCE-RT 2200	roughness meter

OPTIONAL ACCESSORIES

K-CAL-PCE-RT	ISO calibration certificate
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