Surface Roughness Testers

TR100 (2016)

Overview

TR100 Surface Roughness Meter Overview

Roughness measurements can be useful to quickly identify locations where differences of wet slip resistance may exist. It can also be used to measure directional differences that might also create a slip hazard. In addition, the TR100 Surface Roughness Meter can identify changes in surfaces due to wear over time and soiling caused by traffic.

Roughness measurement should be included as part of the ISO10545-17 test for Coefficient of Friction and an integral part of any in-situ measurements

Details

TR100 Surface Roughness Meter Details

The TR100 portable surface roughness tester is a pocket-sized economically priced instrument for measuring surface texture conforming to traceable standards. It can be used in many applications in any position, horizontal, vertical or anywhere in between.

The large LCD display shows either roughness parameter Ra or Rz at the touch of a button, combined with the selected cut-off length. External calibration of roughness values is possible by means of a special CAL button, which makes adjustment of this instrument very easy. A beep signal informs the user of each individual measurement status when ready.

The easy to use TR100 Surface Roughness Meter operates on various surfaces, not only flat but also outer cylinder, outer cone, grooves, and recesses greater than 80 X 30mm. The areas of application are wide spread. This unit is most suitable for inspection departments, quality control, on flooring during machining, assembly and on-site.

TR100 determines both roughness parameters Ra and Rz within a wide measuring range (See

specifications below). The piezo-electric pick-up stylus with diamond tip assures a very reliable measurement within tolerances in conformance with ISO Class 3. Ra parameter is in conformance to ISO while Rz conforms to DIN standards

Benefits

* Large measuring range suitable for most materials

* Measures flat, outer cylinder and sloping surface

* Both Ra and Rz parameters in one instrument

* Features external calibration at keyboard

* Standard conform to ISO and DIN

* Rechargeable batteries, work while charging

Technical specifications

Roughness parameter Ra, Rz

Tracing length 6mm

Tracing speed 1.0mm/sec

Cut-off lengths 0.25mm/0.8mm/2.5mm

Evaluation length 1.25mm/4.0mm/5.0mm

Measuring range Ra: 0.05-10µm

Accuracy ±10%

Power source: 7.2V NiMH rechargeable battery

Operating temperature: 32º - 104ºF (0º - 40ºC)

Dimensions: (125 x 73 x 26mm)

Weight: (200g)

Product Code

TR100 - 2016 model

TR210

Overview

Roughness measurements can be useful to quickly identify locations where differences of wet slip resistance may exist. It can also be used to measure directional differences that might also create a slip hazard.

The TR210 Surface Roughness Meter can identify changes in surfaces due to wear over time and soiling caused by traffic.

Roughness measurement should be included as part of the ISO10545-17 test for Coefficient of Friction and an integral part of any in-situ measurements

Details

The TR210 is our advanced model surface roughness tester which features menu operation, automatic cut-off setting, 12 different selectable roughness parameters and both digital and graphical displays on a large LCD.

Benefits

* Extremely easy operation!
* 4 different roughness parameters
* Optional pickup for grooves/bores and holes.
* Data output RS232 to printer TA220S or PC
* Li-ion rechargeable Battery
* Standard conform to ISO

Technical specifications

Roughness parameters Ra, Rz, Ry, Rq

Units mm, inch

Display resolution 0.01 ? m

Data output RS232

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Measuring Range Ra: 0.025~12.5? m

Cut off length (L) 0.25mm / 0.8mm / 2.5mm/Auto

Evaluation length 5L (selectable)

Tracing length 5L + 2 L

Digital filter RC, PC-RC, Gauss, D-P

Max. driving length 17.5mm/0.71inch

Min. driving length 1.8mm/0.071

Pick-up Standard pickup TS100, inductive, Diamond stylus radius 5?m, angle of stylus 90°

Accuracy ?±10%

Repeatability

Product Code

TR210

Optional accessories

* Special Pickup TS110 for grooves bores
* TS120 for holes
* Test platform TA610/TA620/TA630
* TA220S printer
* Protection nose
* Steel adapter(8mm) for universal stand
* Steel adapter for connection to platform TA610/TA620/TA630
* Extension rod
* Dataview with cable
* Interface cable