Metrix+™
Innovative Excellence

SURFACE PROFILE GAUGE

SURFPROF 09

Easy surface profile measurement

Measuring principle

This instrument uses a tough tungsten carbide tip, which gets pressed on the material surface, to give the peak-to-valley distance, the surface profile height of the surface. Its like a depth micrometer with a probe tip for finer and accurate measurement.

Applications

Measuring and recording surface profile is important and determining factor in the application of coatings for its optimal performance. This is useful in all industries, like automotive, metal forming, forging, castings, etc. who work with coatings and blast cleaned surfaces, to make sure that surface profile is within admissible range.

Features

- Flexible probe with tough tungsten carbide probe tip.
- Meets the international standards for profile testing.
- Average value measurement.
- Optional PC interface for real time data logging

Why is it important?

If the profile is too large the amount of coating required to ensure adequate coverage increases, otherwise there is a danger that the peaks remain uncoated, allowing rust spots to occur. If the profile is too small, there may be an insufficient key to produce adequate adhesion, leading to premature coating failure. Ensuring the correct surface preparation optimizes the performance of the coating and material usage.

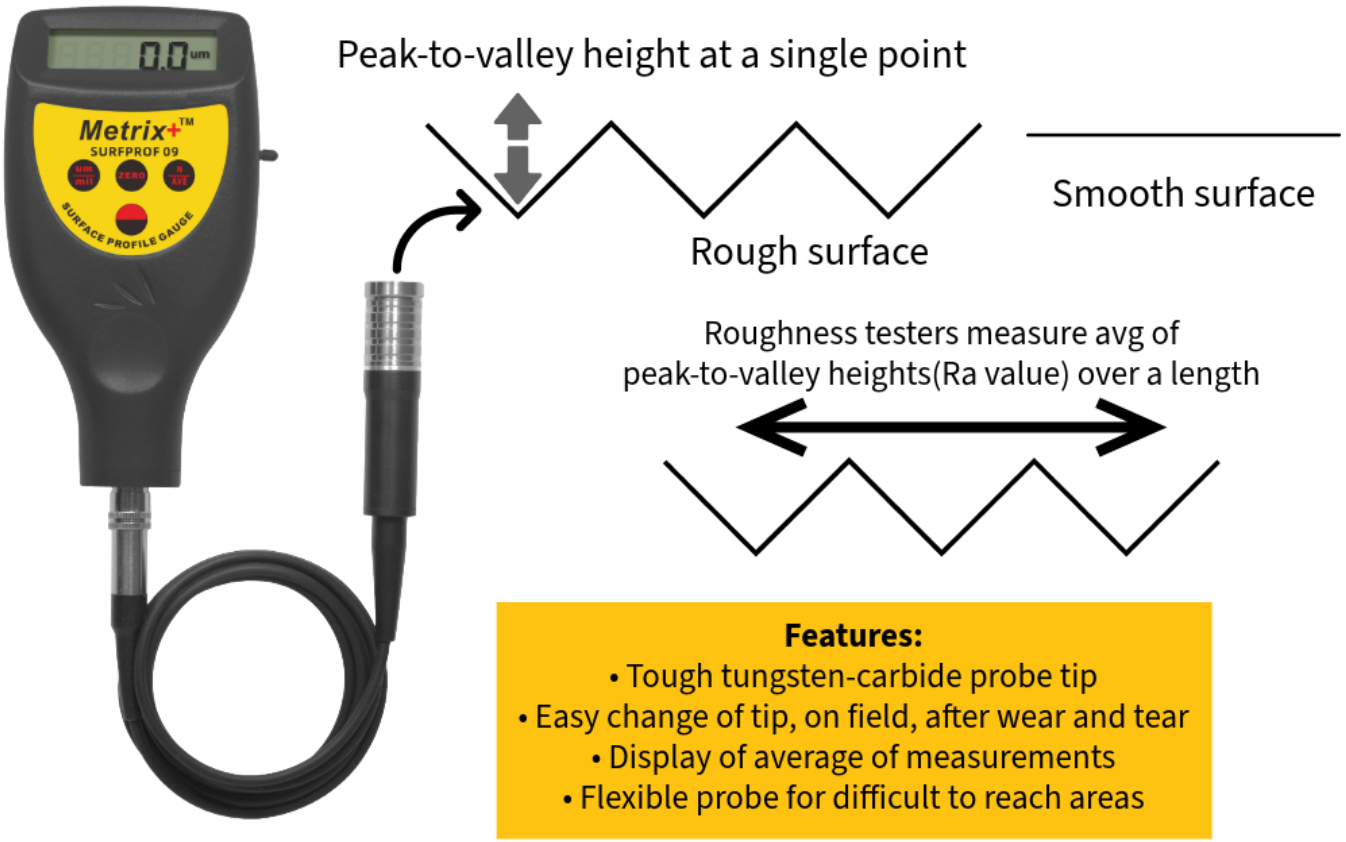
Technical Specifications

Model	***Metrix+* Surfprof 09**
Standards	ASTMD-4417-B, IMOMSC.215(82), SANS5772, US Navy NSI 009-32, US Navy PPI-63101-000.
Measuring range	0 ~ 800um
Accuracy	±5% or ±5um (whichever is greater)
Resolution	0.1um (<100um), 1um (100 ~ 800um)
Sensor	Tungsten carbide tip, inductance type principle of measurement

Tip life	The tungsten carbide can last up to 20,000 readings and can be easily replaced by user in field. Cost per test is significantly lower than other test methods
Power	4 x 1.5V AAA batteries
Working conditions	Temperature : 0 ~ 50°C ; Humidity : <80% RH
Dimensions	126 x 65 x 28mm
Standard accessories	Main unit, cable probe, sample plate, operational manual, gift box packing
Optional accessories	PC interface

Pictures:

Measure peak-to-valley height of a rough surface (0 ~ 800um measuring range). Its like a depth micrometer with a tungsten carbide probe tip for finer and accurate measurement.



Features:

- Tough tungsten-carbide probe tip
- Easy change of tip, on field, after wear and tear
- Display of average of measurements
- Flexible probe for difficult to reach areas

Mainly useful for measuring profile of castings and blast cleaned surfaces

Tough tungsten carbide tip

Can last upto 20,000 readings

Tip can be easily replaced on field on wear & tear

Cost per test is significantly lower than other test methods

Average measurement over user configurable 'N' values

Zero setting on master block

um/ mil measurement units