

BB20 Layer thickness measuring device

Quick thickness measurements of car paint and other coatings

Thanks to its innovative dual sensor, the BB20 enables measuring the thickness of non-magnetic coatings such as paints, varnishes, plastic coatings, zinc coatings, enamellings or chrome plating both on iron or steel and also on non-ferrous metals like aluminium, magnesium, titanium etc.

The measuring head is spring-loaded and equipped with a practical V groove. This way, the measuring of round objects such as axes or hinges is easier and not influenced by vibrations.

The measuring device, comfortably to be used with one hand, impresses with a broad measuring range from 0 to 1,250 μm and ensures precise measuring results in every situation plus it comes with additional helpful statistics displays and a convenient alarm function when exceeding or falling below a predefined layer thickness.

The professional equipment features make the BB20 an indispensable tool in the motor vehicle sector, e.g. for paintwork control measurements or the detection of repainted accidental damages – but also for the universal check of hand rail and ship's paint or other protective coatings.



A few practical benefits

- Dual sensor for the thickness measurement of non-magnetic layers on all magnetic and non-magnetic metals
- Broad measuring range from 0 μm to 1,250 μm
- Spring mounted measuring head
- V groove for measurement on roundings
- Alarm function when exceeding or falling below a predefined layer thickness
- Various statistical functions such as maximum, minimum and average layer thickness
- Two-point calibration for pinpoint accuracy
- Storage capacity for up to 400 measured values
- USB interface for the PC measuring data transfer
- Easy one-hand operation
- Backlit display
- Automatic switch-off



Technical data

| Article number | 3.510.205.075 |
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| Sensor | Ferromagnetic ground, Non-ferrous metal ground |
| Functional principle | Magnetic induction, turbulent flow |
| Guaranteed tolerance | Fe: $\pm 3\% + 1\ \mu\text{m}$ (at 0 μm up to 850 μm) Fe: $\pm 5\%$ (at 850 μm up to 1,250 μm) nFe: $\pm 3\% + 1.5\ \mu\text{m}$ (at 0 μm up to 850 μm) nFe: $\pm 5\%$ (at 850 μm up to 1,250 μm) |
| Minimum bending radius (surface) | Fe: 1.5 mm nFe: 3 mm |
| Minimum measuring surface | Fe: $\varnothing 7\ \text{mm}$ nFe: $\varnothing 5\ \text{mm}$ |
| Critical primary layer thickness | Fe: 0.5 μm nFe: 0.3 μm |
| Measuring range | 0 μm up to 1,250 μm |
| Accuracy | $\pm 0.1\ \mu\text{m}$ |
| Functions | Minimum value display, Maximum value display, Average value display, Automatic switch-off, Backlit display, Acoustic alarm function, Sensor for ferromagnetic ground, Sensor for non-ferrous metal ground, Two-point calibration, Standard deviation |
| Power supply | 2 x 1.5 V, AAA |
| Dimensions | 110 mm x 24 mm x 54 mm |
| Weight | 114 g |
| Scope of delivery | Measuring device, Battery(-ies), Transport case, USB cable, Software, Calibration accessories, Operating manual |