



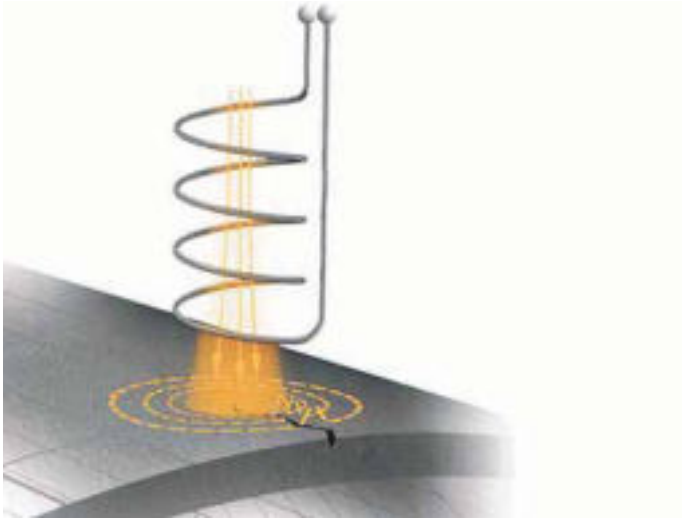
Mobile Inspection

Highest reliability
Intelligent technique
Universal applications
Ideal dimensions



DEFECTOMETER® M 1.837

Mobile crack measurement



The eddy current principle

The principle of eddy current method is to induce an energy flux into the material to be tested with an EC-probe by generating a magnetic field that penetrates the material causing eddy currents. Any defects or irregularities in the grain structure disturb the energy flow leading to indications.



Applications

- Testing for surface cracks on turbine blades, on wheels, on wings around rivets etc. at aircrafts
- Testing of surface cracks on bridges
- Testing of surface cracks on gas pipelines
- The flaw resolution is approximately 20 μm
- Simple sorting tasks, identification of hardness changes and detection of surface cracks on automotive components
- Detection and evaluation of surface cracks on semi-finished products



DEFECTOMETER® M 1.837

Overview

Probes

Use of only one probe for all materials.
Probes of earlier DEFECTOMETER models can be used.

Flaw indication

Bright LED scale indication and transflexive LCD-display for excellent reading at all conditions of light.
Integrated acoustic indicator.

Lift-off

LED and acoustic warning at lifted probe.

Defect threshold

Optically via red LED light and acoustically.

Calibration

Integrated calibration standard (optional).

Documentation and visualization software

with PC via Mini USB (optional).

Operation duration

24 hours with activated backlighting.

Ergonomics

Smooth shaped and well balanced for easy one hand operation.

Accessories

Headphones, carrying bags, holding device.



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Accessories and technical data

Eddy current probes



Carrying bag
1.837.01-2700



Holding device
1.837.01-7400



Calibration standards



Headphones foldable
1.837.01-5500



Universal power supply



PC software
1.837.01-8200



Technical data DEFECTOMETER® M 1.837

Flaw detection	< 20 µm crack depth
Sensitivity range	20 dB in steps of 0.5 dB
Flaw threshold	-99% to +99% in steps of 1% in combination with red LED and acoustic indicator
Zero offset	0 - 99 %
Lift off warning	LED and acoustic
Inspection speed	0 - 0.15 m/s
Batteries	6 NiMh Accus type AA or Standard Batteries
Battery charger	integrated into the device
Power supply	110 - 240 V
Serial interface	Mini USB
Operation time	24 hours (with NiMh Accu)
Range of operation temperature	-10 - 55 °C
Dimensions	81 x 178 x 42 (w x h x d)
Weight	400 g



MP Member of the FOERSTER group

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