

# DEFECTOMETER® M

FOERSTER



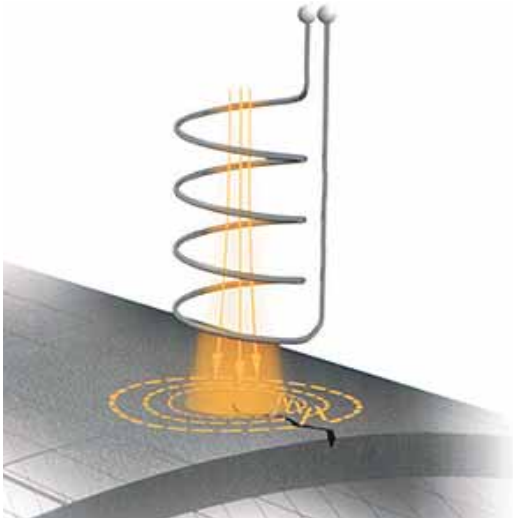
## Mobile Inspection

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  $\mu\text{m}$
- 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



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## 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



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