

# The CrackFinder® X5

Your partner for non-destructive crack detection

## CrackFinder® X5

Risk free crack  
detection

No plant shut down  
required!

The CrackFinder® X5 performs a speedy non-destructive recognition and identification of cracks on all ferromagnetic steels, iron materials and aluminium. Crack measurements of up to 5 mm crack depth are possible with this gauge. And it will also measure corrosion and paint coating thicknesses of up to a maximum of 10 mm. The X5 is ideal for risk-free inspections of gas piping, pipes, pressure tanks, etc as it detects the cracks without the need for a plant shut down! Apart from avoiding costly down time, the CrackFinder uses a measuring technique which does not require dangerous X- or Gamma rays, and does not magnetize any ferromagnetic steel parts under inspection, such as encountered with the magnetic particle inspection principle.

## Features

- Application for crack detection on tubes, pipelines, boilers, constructions, wheels-rims, containers, etc. from steel or aluminium.
- Crack localization and reliable measurement of crack depth.
- Crack detection not influenced by corrosion, paint and/or insulating layers of up to a maximum of 10 mm.
- Fast, safe and problem-free crack detection with intelligent technology.
- High cost reduction due to timely repair potential.
- Suitable for finding hair-line cracks and determining metal fatigue.
- No need for consumables, such as couplants, dye-penetrants, etc.
- Quick amortization of purchase price when used to conduct preventative maintenance.

## Technical Specifications

Crack search and localization:	On steel and aluminium parts
Min. depth of cracks to be tested:	From 0.3 mm to 0.5 mm
Min. width of cracks to be tested:	0.05 mm
Min. length of cracks to be tested:	5 mm
Measuring range for crack depth measurement:	From 0.3 mm to 5 mm
Measuring error in crack depth measurement:	$0.2 + 0.1 h$ mm, $h$ = crack depth
Measuring range for coating thickness measurement:	From 0 to 6 mm
Measuring precision for coating thickness measurement:	5 %
Recognition of cracks under a paint and/or corrosion or insulating layer:	Up to 10 mm thickness
Power supply	9 V re-chargeable battery (6F22)
Operating time:	Approx. 10 hours
Battery indication:	Permanent
Operating temperature range:	- 15° C to + 40° C
Gauge Dimensions:	150 x 80 x 35 mm
Sensor Dimensions:	24 x 24 x 48 mm
Sensor cable length:	1.5 m
Weight of gauge incl. sensor:	0.5 kg
Weight with case:	3 kg
<b>Technical details subject to change</b>	

## Equipment Delivery Range

- The CrackFinder® X5 gauge
- Sensor with cable
- 9V battery (6F22)
- Battery charger
- Connection cable for charger
- Headphones
- Connection cable for headphones
- Crack calibration specimen: steel with 2 mm crack depth
- Plastic calibration aid being 2 mm thick
- High-impact service case which is dust proof, and water-proof up to a depth of 5-metres.



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