Crack measuring gauge crack search and measurement

HNI

Salu Tron[®]

MESS

Application for crack detection on tubes, pipelines, boilers, constructions, wheels-rims, containers, etc. from steel or aluminium

Crack detection not influenced by corrosion, paint and/or insulating layers of up to a maximum of 10 mm

Crack localisation and reliable measurement of crack depth

CrackFinder X5[©]

The **Crack***Finder* **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. It also measures corrosion and paint coating thicknesses of up to a maximum of 10 mm.

Exact to the point Perfect and sharp measurement

Specifications

crac

crac

Meas th

Reco

Crack search and localisation:	on steel and aluminium parts. also cast steel, grey cast iron and Nodular cast iron.	C B
Min. depth of cracks to be tested:	from 0.3 mm to 0.5 mm	fi p T
Min. depth of cracks to be tested:	0,05 mm	ti tł C
Min. length of cracks to be tested:	5 mm	u to
Measuring range for depth measurement:	from 0,3 mm to 5 mm	ir e
Measuring error in k depth measurement:	0.2 + 0.1 h mm, h = crack depth	s X ir
uring range for coating ckness measurement:	from 0 to 6 mm	g N
leasuring precision for coating thickness measurement:	5 %	T p d
gnition of cracks under a paint and/or orrosion or insulating layer:	up to 10 mm coating thickness	d tř +
Power supply:	9V battery (6F22) alkaline	fc E
Operating time:	10 hours - permanent battery condition display	to A
perating temperature:	-15°C to +40°C	to
Gauge dimensions (L x W x H):	150 x 80 x 35 mm	0 0
Sensor dimensions:	24 x 24 x 48 mm	*
Sensor cable length:	1.5 m	*
Weight (incl. sensor):	0.5 kg	*
Weight with case:	3 kg	*

Application

- Search for cracks, crack-identification and quantification on pipes, pipelines, boilers, structures, wheels, tanks, pressure vessels, etc. made of steel or aluminum
- Mainly used in preventive maintenance and in production processes in the petrochemical industry, gas industry, power industry, chemical industry, during inspections and in heavy machinery among otrhers.



Authorized Distributor for India **GVJT Systems, Mumbai** www.gvjtsystems.com Email: mpk@gvjtsystems.com Mobile: +91 93218 35107

Crack search and measurement

By manually scanning with the sensor of the **Crack***Finder* **X5**[©], it accurately inds cracks on all aluminium and ferromagnetic materials such as steel piping, steel pressure tanks, steel boilers, steel constructions, etc. his gauge does not only detect cracks in material under inspection in no ime at all, but it can also measure and determine the depth of the crack hrough a 3 - 4 mm thick insulating layer (only for steel)! Cracks can also be located and traced through a corrosion or paint layer of up to a max. thickness of 10 mm, and the crack does not need to be linked o the surface of the test piece as is required for the dye penetration echnique. The innovative measuring technique employed, is an ndispensable aid for preventive maintenance and production processes, enabling the user to pinpoint cracks with ease and speed which in turn aves the user time and great costs from possible accidents occurring. The (5 has a wide range of application in the petro-chemical industry, chemical ndustry, gas industry, power generation industry, undercarriage industry, for general inspections on heavy machinery, etc.

Measuring principle

The **Crack***Finder* **X5**[©] operates according to the magnetic and eddy-current principle so that cracks in materials can be determined accurately, and their depth and extension (max. 5 mm) can be measured precisely. The measured values are directly displayed on the LCD monitor. The display can be illuminated for operation in dark surroundings. Furthermore, this instrument can be used under extreme working temperatures (-15°C to +40°C) in nearly all countries of the world. This instrument is also suitable for measuring the thickness of paint and/or corrosion coatings. Easy calibration functions ensure that material influences and sensor tolerances are largely compensated for by this intelligent instrument. An appropriate calibration block with a reference crack (crack depth 2 mm) to test and calibrate the instrument incl. sensor are included in the delivery. The instrument only needs to be re-calibrated if it shows an incorrect value on the display with reference to the test specimen.

Characteristics and equipment

- Application for crack detection on tubes, pipelines, boilers, constructions, wheels-rims, containers, etc. from steel or aluminium
- Crack localisation 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 amortisation of purchase price when used to conduct preventative maintenance



D-50226 Frechen Dr.-Gottfried-Cremer-Allee 30/7 Tel: +49 (0) 22 34 / 99 99 96 0 Fax: +49 (0) 22 34 / 99 99 96 2 info@salutron.de · www.salutron.de

Certified according to ISO EN 9001