



## Equipment

Product information

MR<sup>®</sup> 902 Crack detection units, mobile

**MR**<sup>®</sup>  
CHEMIE  
NDT-materials

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# MR 902<sup>®</sup> Crack detection unit, mobile

for magnetic particle testing according to EN ISO 9934 part 1

The MR<sup>®</sup>-Mobile power pack provides maximum AC magnetizing currents up to 2000 Amps. The test current is indicated in effective values by a digital display, and is infinitely adjustable. Further power packs are available on request!



MR<sup>®</sup> 902

The shown accessories are not part of the scope of delivery. Please order separately.

Bezeichnung	Art.-Nr.:
MR <sup>®</sup> 902 Crack detection unit, mobile	902
Magnet electrodes with lug connector, type DIX PM 70	E900-104
Foot switch for power packs	E900-116
Melt-off electrode Type B to be fixed at handles and to be connected to high current cables, test current 1500-3000 A	E900-105B
Handles for installation of melt-off electrodes, consisting of 1 handle with and 1 handle without control cable	E900-105D
High current cable complete with 1x cable lug, 1x dinse plug, cross section 35 mm <sup>2</sup> , length 2,5 m	E900-113B

31.05.2012/db

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## Equipment

*Product information*

*MR<sup>®</sup> 902 Crack detection units, mobile*



### Technical data acc. to EN ISO 9934-3 and German DGZfP guide line EM-0

The high current MR<sup>®</sup>-Power pack provides AC only for testing. The test current is indicated in effective values by a digital display, and is infinitely adjustable.

AC: (Max. test current measured with high current cables, external circuit 5 metres)	
Effektive	2000 A
Peak	2800 A
Relative duty cycle	30 %
Open circuit voltage max.	4,85 V
Control voltage	12 V

Operating data:	
Mains connection	400 V
Frequency	50 Hz
Power consumption	12 KVA
Short circuit current approx.	9412 A
Recommended quantity and length of high current cable (not included in delivery scope)	4x2,5 m
Cross section	70 mm
Test current adjustment	infinitely
Constant current control	yes
Current indication	Digital

Dimensions:	
Width	290 mm
Height with handle	335 mm
Depth	445 mm
Weight without current cables	32 kg

MR<sup>®</sup> 902 Crack detection unit, mobile is provided with the following built-in standard functions:

#### Constant current magnetization

Constant current is initiated after actuating a foot or hand switch. An electronic system regulates the test current from 0 to maximum in approx. 200 ms, which avoids unnecessary peak loading of the mains supply.

#### Impulse magnetization

If the impulse operation is selected a sequence of single impulses is provided according to a factory - set on/off duty cycle of (1 s/1 s).

#### Demagnetization

After preselection of the demagnetization the test current is regulated from the set maximum value to 0 in approx 600 ms.

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