

# FERROTEST

## Mobile Crack Detection Units

All Ferrotest units are provided with following built-in standard functions:

- Constant current magnetisation
- Impulse current magnetisation
- Demagnetisation

### Constant current magnetisation

Constant current is initiated upon operating 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 magnetisation

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

### Demagnetisation

After selecting the demagnetisation setting, the test current is regulated from the set maximum value to 0 in approximately 600 ms.

On all units, the test currents are indicated by a digital display and are infinitely adjustable.

Additional power packs are available on request.

All Ferrotest units meet the requirements of the following standards and specifications:

- EN 60204-1:2006
- EN ISO 9934-3:2002
- DIN VDE 0100-410:2007
- DIN VDE 0100-540:2012

These details are subject to technical innovations and modifications at any time.

## ACCESSORIES



### MAGNET ELECTRODES

For connection to high current cables. Type DIX PM 70 with lug connector, suitable for power-packs with a test current up to 6,000 A.

**Part number 129102**



**FERROTEST 10**

**FERROTEST 20**

**FERROTEST 40**

**FERROTEST 60**


The high-current **Ferrotest** mobile power packs provide maximum AC magnetising currents from 1000 Amps up to 7100 Amps.

**TECHNICAL DATA** (in compliance with EN ISO 9934-3 / DGZfP guideline EM-0)

		Ferrotest 10	Ferrotest 20	Ferrotest 40	Ferrotest 60	Ferrotest 100
Ref. No.		061140	061280	061400	061600	061900
<b>AC</b> (maximum test current measured with high current cables, external)						
Effective	A	1000	2000	2800	4200	7100
Peak	A	1400	2800	4000	6000	10,000
Relative duty cycle	%	30	30	30	30	30
Open circuit voltage (max.)	V	3.2	4.85	8	10.5	22
Control voltage	V	12	12	12	12	12
<b>Operating data</b>						
Mains connection	V	230	400	400	400	400
Frequency	Hz	50	50	50	50	50
Power consumption	kVA	3	12	23	50	155
Short circuit current (approx.)	A	2875	9412	7320	12,490	12,000
Recommended quantity and length of high current cable (not included in delivery scope)	m	2 x 2.5	4 x 2.5	4 x 2.5	8 x 3	8 x 3
High current cable cross section	mm <sup>2</sup>	70	70	95	95	95
Test current adjustment		infinite	infinite	infinite	infinite	infinite
Constant current control		x	x	x	x	x
Current indication		digital	digital	digital	digital	digital
<b>Dimensions</b> (including wheels where applicable)						
Width	mm	290	290	615	700	930
Height with handle	mm	335	335	970	910	1100
Depth	mm	325	445	450	1200	1690
Weight without current cables	kg	17	32	124	174	500

**FERROTEST  
GWH 15**

**FERROTEST  
GWH 40**

**FERROTEST  
GWH 60**

**FERROTEST  
GWH 100**


The **Ferrotest GWH** mobile power packs provide both AC and HWDC. They generate test currents from 1050 Amps to 7100 Amps.

**TECHNICAL DATA** (in compliance with EN ISO 9934-3 / DGZfP guideline EM-0)

		Ferrotest GWH 15	Ferrotest GWH 40	Ferrotest GWH 60	Ferrotest GWH 100
Ref. No.		062150	062400	062600	062900
<b>AC</b> (Maximum test current measured with high current cables, external circuit 5 metres)					
Effective	A	1050	2800	4200	7100
Peak	A	1500	4000	6000	10,000
Open circuit voltage (max.)	V	4.5	8	10.5	25
<b>Half-wave DC</b> (Maximum test current measured with high current cables, external circuit 5 metres)					
Effective	A	950	2000	3000	5000
Peak	A	1900	4000	6000	10,000
<b>Operating data</b>					
Mains connection	V	400	400	400	400
Frequency	Hz	50	50	50	50
Power input at nominal operating current	kVA	8.8	30	60	350
Control voltage	V	12	12	12	12
Relative duty cycle	%	30	30	30	30
Short circuit current (approx.)	A	7800	8000	9000	12,000
Recommended quantity and length of high current cable (not included in delivery scope)	m	2 x 2.5	4 x 2.5	8 x 3	8 x 3
High current cable cross section	mm <sup>2</sup>	95	95	95	95
Test current adjustment		infinite	infinite	infinite	infinite
Constant current control		x	x	x	x
Current display		digital	digital	digital	digital
<b>Dimensions</b> (including wheels where applicable)					
Width	mm	290	630	700	930
Height with handle	mm	385	965	910	1100
Depth	mm	455	500	1200	1690
Weight without current cables	kg	33	115	175	500