

# MULTIPULS-1003-E3

**HPT**  
Hirsch Prüftechnik GmbH

3-pulse technology  
Peak current = 3 x 30,000 A

Low power consumption – for mobile application  
(400 VAC, 50/60 Hz, 32 A/63 A is sufficient)



## Mobile 4-pole-DC-pulse equipment

for surface crack detection and  
demagnetization of steel components

### MULTIPULS-1003-E3

Peak current = 3 x 30,000 A,  
3-DC-Pulse Technology

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### Magnetization

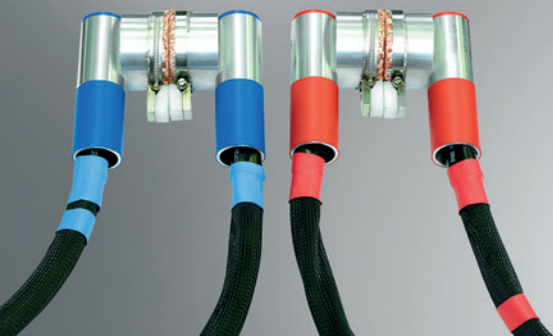
Fast, reliable magnetization of cracks for all directions using series of direct current pulses

### Demagnetization

Demagnetization using direct current pulses of declining intensity

### High current magnetization

Magnetization with direct current pulses, applied crosswise to the part



### Technical data MULTIPULS-1003-E3

Rated voltage	400/440/480 VAC*, 50/60 Hz, 32 A / 63 A
Rated power	16.0 kVA
Service cycle	70%
Testing current	500 A - 30,000 A
Field strength	10 A/cm - 80 A/cm
Pulse frequency	ca. 1 Hz
Postmagnetization count	1 - 99
Demagnetization time	0.5 - 3.5 min
Length of testing cable	6.0 m
UV-LED-lamp with superimposed flood light	100 W/m <sup>2</sup> 650 Lux
Testing coils	Available upon request
Dimensions	L = 1360 mm W = 770 mm H = 1010 mm
Weight	ca. 450 kg

\* Additional voltages upon request

### Combined MT-testing

Magnetization with direct current and coil

### Non-Contact MT-Testing

Non-contact magnetization of the part over a dual coil configuration

### Picture Documentation

Picture documentation of large MT-test areas possible

### Compact design

MT-testing device, current, magnetic field, and residual field measurement device in one mobile casing on wheels

### Integrated UV-LED-Lamp with superimposed flood light

Uniform UV-lighting under daylight conditions in accordance with EN ISO 9934-1 for clear crack indication. Superimposed flood light to sort out false crack indications



### Advantages

- Pin sharp crack indication because of direct current pulse magnetization
- Clear crack indication already after a few pulses
- High performance
- Compact design
- Low weight
- Single-hand operation via remote control or UV-LED-lamp
- Superimposed flood light for determination of wrong crack indications
- Long service life
- Long service intervals
- Low energy consumption
- Low consumption of test fluid