

Mobile dual circuit direct current pulse testing unit for surface crack detection and demagnetization of ferritic steel components

Magnetic particle testing



MULTIPULS-1003-E2

**Magnetization**

Fast, reliable magnetization using direct current pulses

**Simultaneous detection of all cracks**

Dual electric circuit – alternating magnetization of the parts in 2 directions

**High current magnetization**

Magnetization with direct current pulses, applied crosswise to the part

**Non-Contact MT-Testing**

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

**Demagnetization**

Demagnetization using direct current pulses of declining intensity

**Compact design**

Power supply and testing unit in one housing

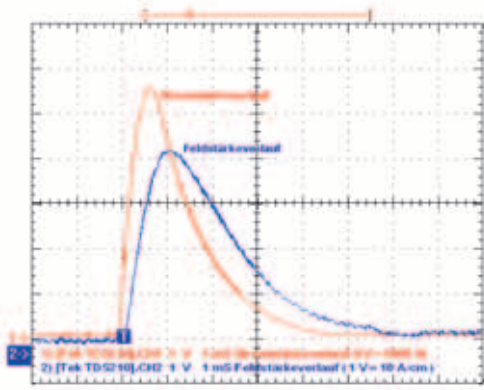
**Combined MT-testing**

Magnetization with high current and coil

**Integrated UV-Lamp with superimposed flood light**

Uniform UV-lighting for clear crack indication. Superimposed flood light to sort out false crack indications

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Direct current pulse magnetization

Technical Data	MULTIPULS-1003-E2
Rated voltage	400 VAC, 50/60 Hz
Rated power	6,0 kVA
Service cycle	50%
Testing current	500 A - 25.000 A
Field strength	10 A/cm - 80 A/cm
Pulse frequency	0,5 Hz
No. of pulses	1 - 99
Cycle time for demagnetization	20 - 240 s
Length of testing cable	3,0 m
UV-lamp	With superimposed flood light Integrated power supply
Testing coils	available upon request
Dimensions	l = 380 mm h = 450 mm p = 750 mm
Weight	75 kg

- Pin sharp crack indication because of direct current pulse magnetization
- Clear crack indication already after 3 pulses = 3 sec
- High performance
- Compact design
- Low weight
- One-hand operation via remote control or UV-lamp
- Superimposed flood light for determination of wrong crack indications
- Interface for integration into a MT-testing machine
- Long service life
- Long service intervals
- Low energy consumption
- Low consumption of test fluid