

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

Magnetic particle testing



MULTIPULS-1003-E2-1

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

Picture Documentation

Picture documentation of large MT-test areas possible

Demagnetization

Demagnetization using direct current pulses of declining intensity

Compact design

Power supply and testing unit in one housing

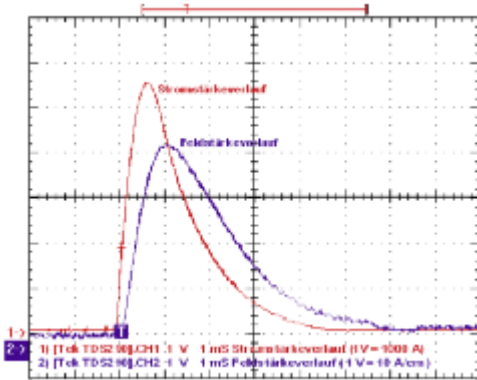
Combined MT-testing

Magnetization with high current and coil

Integrated UV-Lamp with superimposed flood light

Uniform UV-lighting under daylight conditions in accordance with EN ISO 9934-1 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-E2-1
Rated voltage	400-480 VAC, 50/60 Hz
Rated power	7,0 kVA
Service cycle	60%
Testing current	500 A - 30.000 A
Field strength	10 A/cm - 80 A/cm
Pulse frequency	0,5 Hz
Cycle time for demagnetization	1 - 99
Taktzeit beim Entmagnetisieren	20 - 630 s
Length of testing cable	3,0 m (5 m on request)
UV-LED-lamp	With superimposed flood light Integrated power supply
Testing coils	available upon request
Dimensions	Width = 380 mm Height = 500 mm Depth = 800 mm
Weight	90 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
- Single-hand operation via remote control or UV-LED-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