

Magnetic particle testing

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



MULTIPULS-1003-E

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

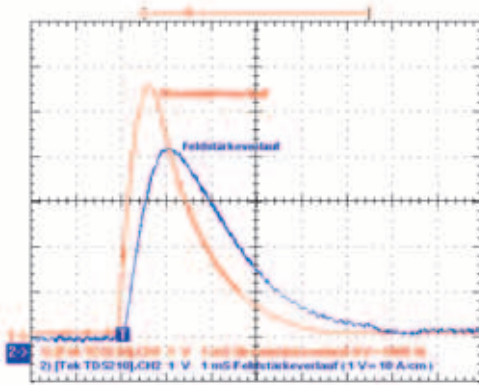
Combined MT-testing

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

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



Direct current pulse magnetization

Technical data:	MULTIPULS-1003-E
Rated voltage	400 VAC, 50/60 Hz
Rated power	2,0 kVA
Service cycle	50%
Testing current	500 A – 13.000 A
Field strength	10 A/cm – 80 A/cm
Pulse frequency	0,5 Hz
No. of pulses	1 – 99
Cycle time for demagnetization	20 – 120 sec
Length of testing cable	3,0 m
UV-lamp	with superimposed flood light integrated power supply
Testing coils	available on request
Dimensions	Width = 320 mm Height = 320 mm Depth = 650 mm
Weight	40 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