

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

Magnetic particle testing



MULTIPULS-1003-E2-2

Magnetization

Fast, reliable magnetization using direct current pulses

Detection of all crack directions

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

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

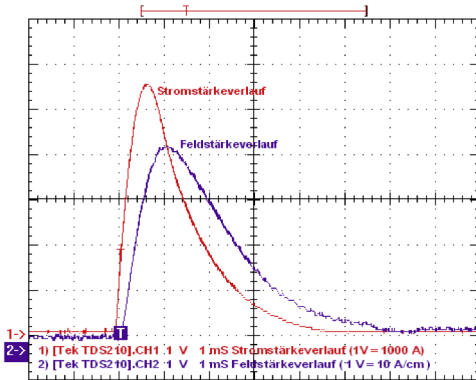
Combined MT-testing

Magnetization with direct current and coil

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

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Direct current pulse magnetization

Technical data:

(in accordance with EN ISO 9934-3 and DGZfP-guidelines EM 0)

	MULTIPULS-1003-E2-2
Rated voltage	400/440/480* VAC, 50/60 Hz, 32 A
Rated power	7.0 kVA
Service cycle	70%
Testing current	500 A - 30,000 A
Field strength	10 A/cm - 80 A/cm
Pulse frequency	0.5 Hz
Postmagnetization time	1 - 99
Time for demagnetization	0.5 - 3.5 min
Length of testing cable	3.0 m (5 m on request)
UV-LED-lamp	shock protected with superimposed flood light
Testing coils	available upon request
Dimensions	Width = 500 mm Height = 900 mm Depth = 900 mm
Weight	148 kg

*Additional voltages on request

- Pin sharp crack indication because of direct current pulse magnetization
- Clear crack indication already after 3 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