

Magnetic particle testing

Mobile dual circuit AC/DC pulse testing unit for surface crack detection and demagnetization of steel components



MULTIPULS-1003-E2-3

#### **Magnetization**

Fast, reliable magnetization using AC/DC pulses

#### **Detection of all crack directions**

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

#### **High current flow magnetization**

Magnetization with AC/DC pulses, applied crosswise to the part

#### **Non-Contact MT-testing**

Non-contact magnetization of the part with a double coil configuration

#### **Picture Documentation**

Picture documentation of large MT-test areas possible

#### **Demagnetization**

Demagnetization using direct AC/DC pulses of declining intensity

#### **Compact design**

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

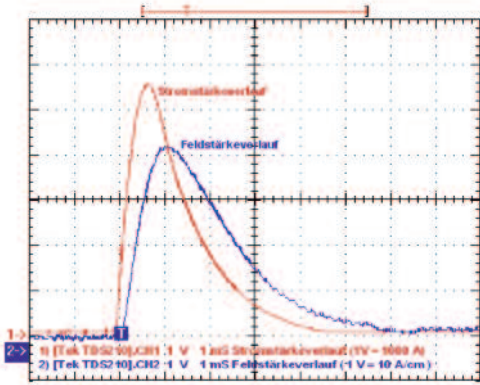
#### **Combined MT-testing**

Magnetization with current flow and coil

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

Uniform UV-lightning in accordance with EN ISO 9934-1 for clear crack indication. Superimposed flood light to sort out false crack indications and an integrated remote control for the AC/DC pulse testing unit.

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Current pulse and field magnetization flow

**Technical data:**

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

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	20 A/cm - 80 A/cm
Pulse frequency	1 Hz
Postmagnetization time	1 - 99
Time for demagnetization	10 s - 3,5 min
Length of testing cable	3.0 m (or on request)
UV-LED-lamp	shock protected with superimposed flood light
Testing coils	available upon request
Dimensions	Width = 670 mm Height = 645 mm Depth = 1000 mm
Weight	160 kg

**MULTIPULS-1003-E2-3**

- Sharp crack indication through AC/DC pulse magnetization
- Clear crack indication already after 3 pulses
- High performance
- Compact design
- Low weight
- Single-hand operation via UV-LED-Lamp with remote control
- Superimposed flood light for determination of false crack indications
- Long service life
- Long service intervals
- Low energy consumption
- Low consumption of test fluid