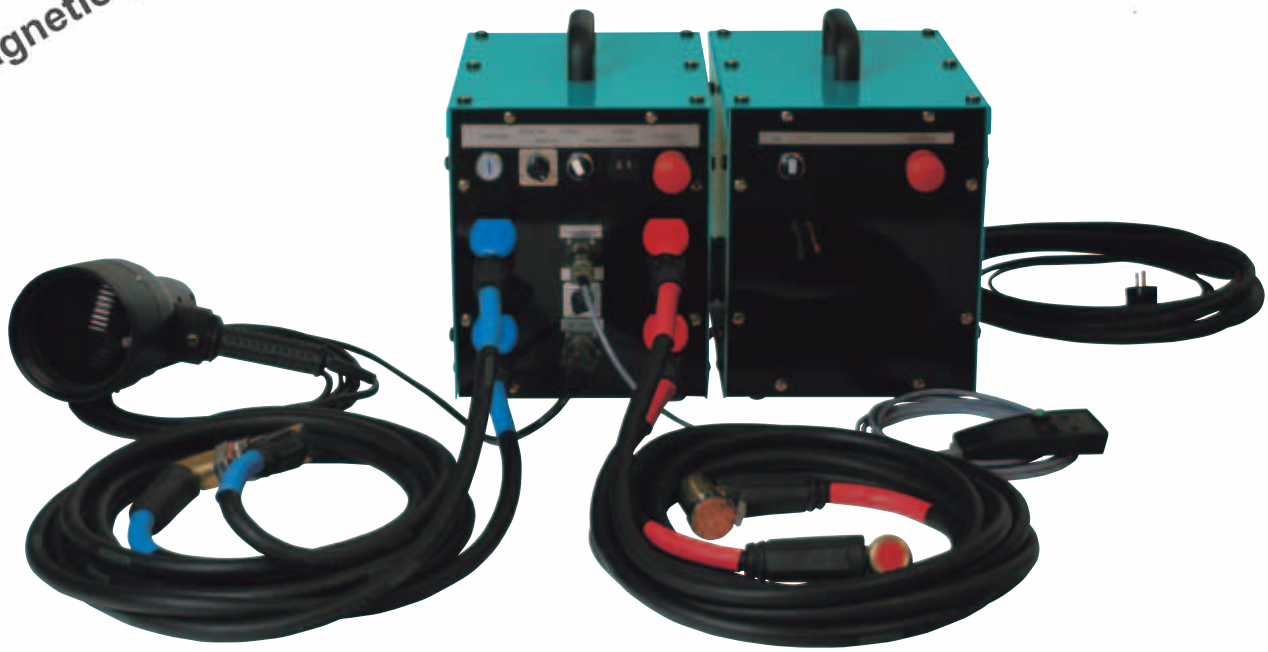
HPT
Hirsch Prüftechnik GmbH

MULTIPULS-1003-C1

Magnetic particle testing

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



MULTIPULS-1003-C1

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

Twin casing
Separate enclosures for power supply and testing unit – suitable for testing in narrow locations

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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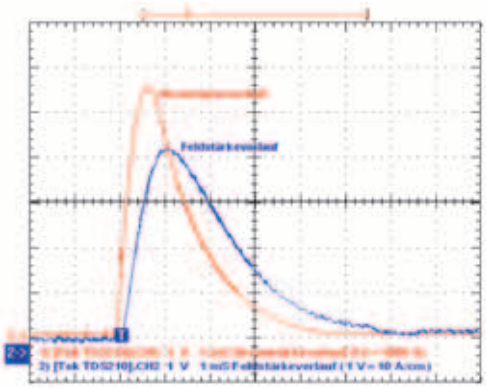

Direct current pulse magnetization

Technical data:	MULTIPULS-1003-C1
Rated voltage	230 VAC, 50/60 Hz
Rated power	1250 VA
Service cycle	50%
Testing current	500 A – 8.000 A
Field strength	10 A/cm – 80 A/cm
Pulse frequency	1 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 = 260 mm Height = 320 mm Depth = 360 mm
Weight	15 / 15 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