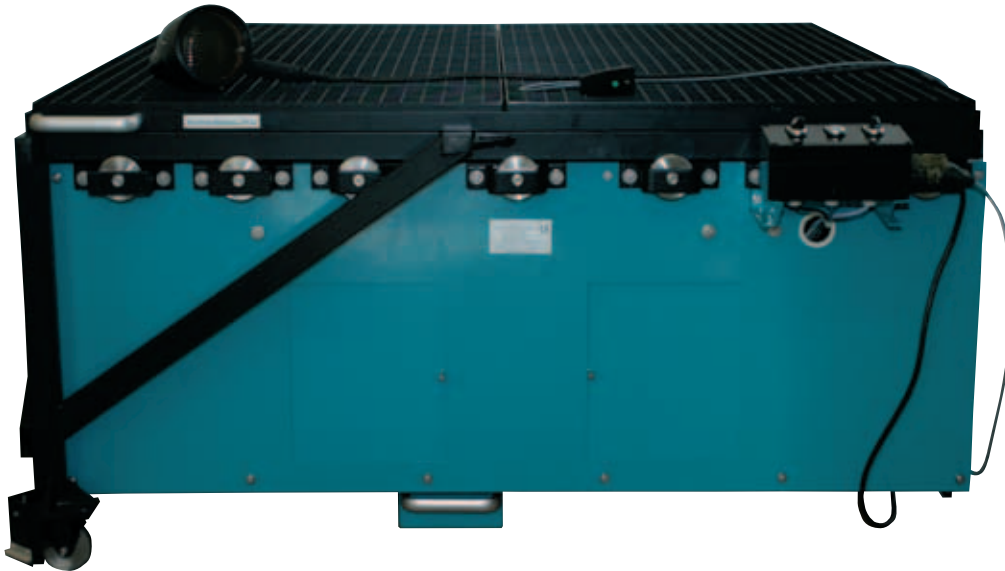


Magnetic particle testing

MT- test bench for non-contact surface crack detection and demagnetization of ferritic steel components



MT-test bench TURBOPULS-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

Non-contact MT-Testing

Non-contact magnetization of the part over a dual coil configuration

Crack detection with camera system

Automatic surface crack detection using camera system and image processing software is possible

Demagnetization

Demagnetization using direct current pulses of declining intensity

Built-in MULTIPULS testing unit

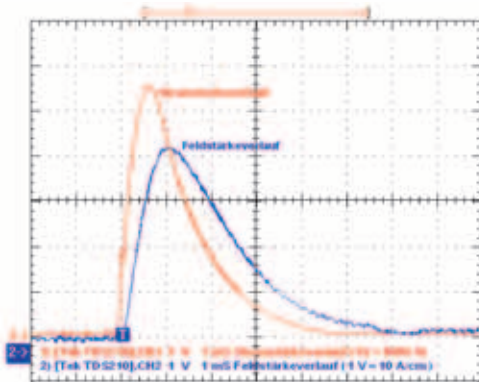
A MULTIPULS-1003-C1 testing unit is built in into the MT-Test bench. It can by itself be used for mobile testing

Integrated UV-Lamp

with superimposed flood light

Uniform UV-lighting for clear crack indication. Superimposed flood light to sort out false crack indications

MT- test bench for non-contact surface crack detection and demagnetization of ferritic steel components



Direct current pulse magnetization

Technical data:	TURBOPULS-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
Puls frequency	1 Hz
No. of pulses	1 – 99
Cycle time for demagnetization	20 – 120 sec
Testing cable	3,0 m
UV-lamp	With superimposed flood light Integrated power supply
Dimensions	Width = 1400 mm Height = 700 mm Depth = 1400 mm
Overall weight	250 kg

- Pin sharp crack indication because of direct current pulse magnetization
- Non-contact MT-testing and demagnetization of various steel components simultaneously possible
- Clear crack indications 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 false crack indications
- Long service life
- Long service intervalls
- Low energy consumption
- Low consumption of test fluid