

## UNIFLUX – MICROFLUX



The Microflux is equipped as standard with two phase-shifted magnetization circuits. These can be used individually or in combination

### Execution of the test bench (mechanical):

- Ergonomically designed base, oil-resistant lacquered
- The left tensioning side (coil) is permanently mounted, the quill is built into it
- Pneumatically operated short stroke cylinder of 7 mm (0.28") moved for tensioning / relaxing.
- The magnetizing sleeves are made of laminated transformer sheet.
- The right clamping side can be moved on a trolley to adjust the clamping length. This trolley is mounted with liquid-tight ball bearings in 4 collar rollers and is easy to move.
- 2 parallel tracks are used for guidance
- The pole carriage can be brought to the respective workpiece length using a clamping lever
- The two magnetization quills are equipped with easily exchangeable contact plates. Diameter D = 200 mm (8 inch)
- Conical liquid container made of stainless steel with a capacity of 40 litres (10.6 gallons)
- Hand hose + area shower for flushing
- clamping length 700mm (27.6 inches)
- compressed air maintenance unit ¼ "
- Hard plastic part supports on headstock and tailstock

### Technical specifications:

- Current flow: for the detection of longitudinal cracks alternating current max. 3000 A effective
- Field flow: for the detection of transverse cracks in the alternating current yoke max. 15 kW
- Duty cycle: 60% absolute 10 sec. a –20 sec. out
- Mains connection: 3 x 500 V (or as requested by the customer)
- Control voltage: 24V DC
- Frequency: 60 Hz
- Power consumption: approx. 24 kVA

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- Clamping length: 20 mm to 700 mm (0.8 inch to 27.6 inch)
- Workpiece weight: max. 100 kg, (220 lbs.)
- Compressed air: 5 bar
- Weight test bench: approx. 850 kg (1,900 pounds)
  
- For each magnetization circuit with a digital contact measuring instrument
- Every magnetization circuit with electronic power controller
- Programmable logic controller made by Siemens
- Stepless intensity control for longitudinal and circular magnetization
- Selector switch on / off for longitudinal and circular magnetization
- Selector switch on / off for the demagnetization of the longitudinal and circular magnetization
- Selector switch manual / automatic
- Time relay for setting the magnetization duration
- Control push button on / off
- Socket for the test equipment pump
- Emergency stop switch on the control cabinet
- All adjustment elements are covered by a plexiglass cover
- Foot switch according to UVV



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