INSTRUMENTS & ACCESSORIES FOR DISTRIBUTION AND POWER TRANSFORMERS.

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ONLY THE BEST FOR YOUR DISTRIBUTION TRANSFORMER.

Switching, insulation, measurement and protection. With a variety of solutions, Maschinenfabrik Reinhausen ensures that your transformer will function perfectly under optimal conditions in every regard.

**Bushings**
Our bushings, with a variety of adaptation options and simple handling, are ideal for insulating your transformer.

**Protective devices**
Protective devices include gas relays and pressure relief devices. These ensure that distribution transformers function safely.

**Indicators**
The measuring instruments, for example for oil level and temperature, show you the actual values of your transformer.

**De-energized tap-changers**
Changing the voltage has never been so easy. With its de-energized tap-changers, MR guarantees that your transformer will perform at its best.

**Fittings**
Dehydrating breathers – also for distribution transformers – are one part of the product portfolio we offer you.
MESSKO® AND CEDASPE® – ACCESSORIES FOR POWER TRANSFORMERS.

Protecting transformers from risks and hazards is a challenge for every operator. Within seconds, unforeseen events can shorten the service life of a transformer by years. To reduce the risk of failure and minimize the consequences of an outage, transformers are equipped with various accessories. Maschinenfabrik Reinhausen offers comprehensive solutions for transformers.

- **Bushings**
  With porcelain bushings and silicone insulator bushings in a standardized design for nominal voltages up to 52 kV and our extensive expertise in production, we offer one of the best price-performance ratios on the market.

- **Protective devices**
  Protective devices are a must for every transformer – our portfolio has an impressive quality and price performance.

- **Indicators**
  Thermometers, oil-level indicators, current monitors and additional accessories for displaying the values of your transformer – our products provide a comprehensive selection of analog and digital monitoring devices for every type of transformer.

- **Fittings**
  In addition to dehydrating breathers, our comprehensive accessories portfolio also includes tank components such as intermediate flange and radiator throttle valves and various terminal and grounding boxes.
ALL YOU NEED – AN IMPRESSIVE PORTFOLIO.

CAPT®, CEDASPE®, ECOTAP® and MESSKO® – Under these product brands, Maschinenfabrik Reinhausen offers an extensive portfolio of instruments and accessories for distribution and power transformers. Get an overview of the product highlights for your transformer.

DISTRIBUTION TRANSFORMERS

Porcelain bushings
Thanks to our many years of experience in standardized design and production, the CEDASPE® porcelain bushings for small transformers stand out due to their excellent price/performance ratio. CEDASPE® bushings are liquid-filled, oil-communicating, electrical hollow-core bushings in accordance with EN 50180, EN 50243, EN 50386 and DIN 42537.

Thermometers
The bimetallic, contact-free oil-level and temperature indicators of the CEDASPE® BM series are mainly used for distribution transformers. The series is available as a radial, rigid-stem design for cover mounting or as a back-entry stem design for lateral wall mounting.

Oil-level indicators
The CEDASPE® ILRM series is perfect for measuring the oil level of hermetically sealed distribution transformers. They operate without contact and feature a simple visual display for reading out the oil level.

De-energized tap-changers
Our range includes six different product types and over a thousand configurations. The CAPT® series 090-095-096 impresses with its compact size, modular design, high quality standards and flexibility.

On-load tap-changers
ECOTAP® VPD® combines our decades of know-how in high-speed resistor-type tap-changers using vacuum technology with our experience in distribution transformers.

POWER TRANSFORMERS

Bushings
The MESSKO® SBC series is impressive thanks to innovative silicone insulator bushings. They are designed for the following operating ranges: nominal voltage from 12 kV to 52 kV and nominal current from 630 A to 4,500 A.

Buchholz relays
The Buchholz relay from CEDASPE® is designed to detect errors and to minimize the spread of any damage in oil-filled transformers. It is particularly effective in protecting against short-circuited core plates, degraded core bolt insulation, overheated windings, short circuits, grounding faults and poor contacts.

Thermometers
MESSKO® COMPACT thermometers are used to measure the temperature in transformers. They are based on Bourdon technology and do not require any additional mechanical parts.

Pressure relief devices
MESSKO® MPreC® pressure relief devices protect large and medium-sized distribution transformers, power transformers and tap changers from possible damage when there is elevated pressure in the oil system.

Dehydrating breathers
CEDASPE® dehydrating breathers come in two main designs: the CEDASPE® VE series and the CEDASPE® VC series. Both versions are designed to replace previously conventional DIN dehydrating breathers and are available both as a traditional single piece and as a modular assembly.

Oil-level indicators
The MESSKO® oil-level indicators of the MTO series are measuring devices with or without main switching contacts. They are specially suited for measuring the fill levels in transformer oil conservators.
OUR CHOICE.
YOUR ADVANTAGE.

We place the greatest value on the quality, reliability and safety of our products. We also design all accessories based on this standard while always keeping an eye on future requirements. Our best solutions offer many advantages for your distribution transformers.

**Flexibility**

Adaptable, standard-compliant (IEC/IEEE) design.
Multiple solutions available upon request.
Many customer-specific adaptation options.

**High quality and an excellent price-performance ratio**

The product design meets and exceeds minimum standard requirements. Low total costs for the transformer thanks to optimized design.

**Maximum operational reliability**

Improved operational reliability of your transformer.
Completely tried and tested in accordance with IEC 60214; comprehensive experience with field applications.

**Long service life**

Designed by our experts with an eye on future requirements. We want our products to work not just today, but also for years to come!