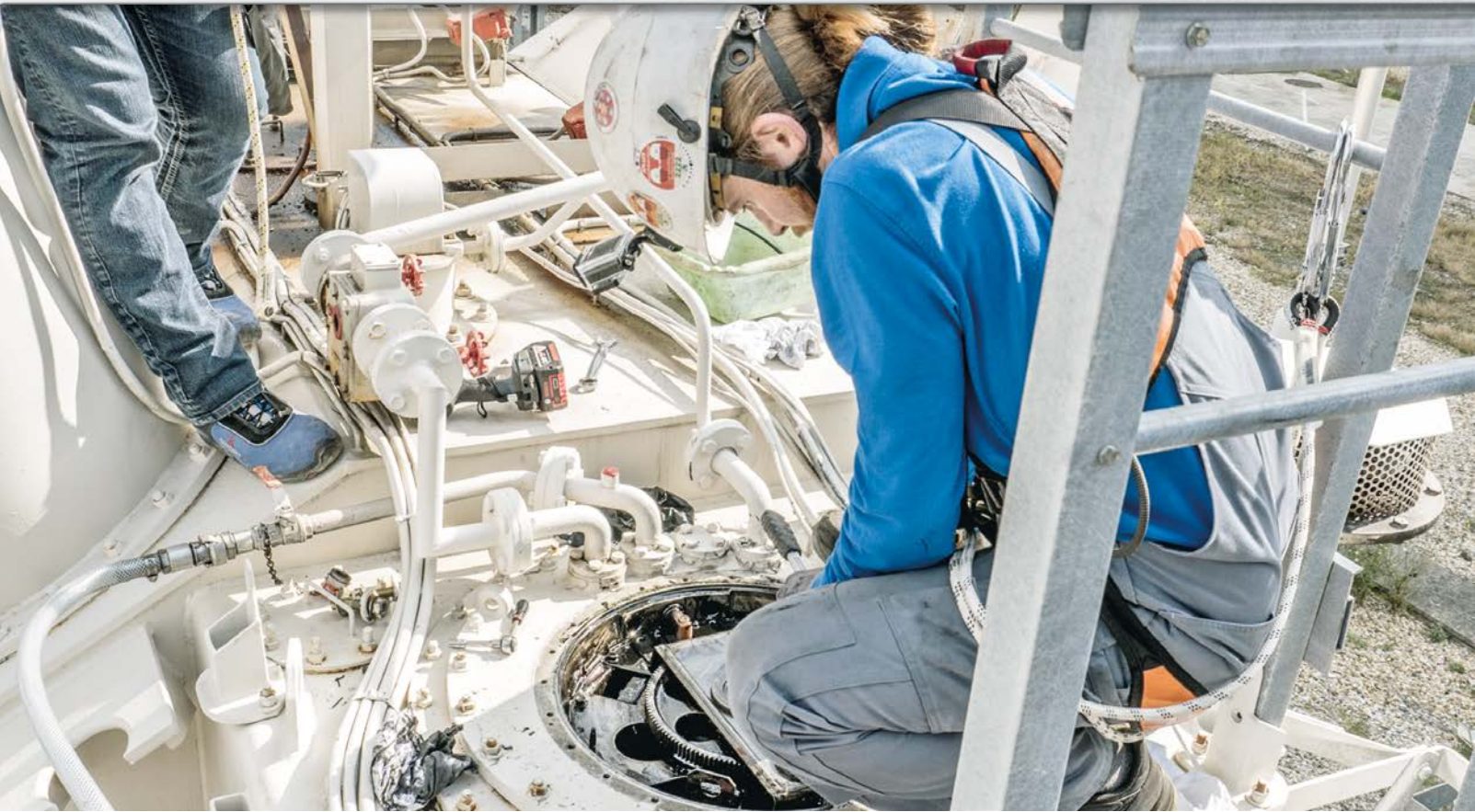


# OILTAP® SERVICE

THE BEST CARE FOR YOUR ON-LOAD TAP-CHANGER








FOR A CAR, REGULAR SERVICING PAYS OFF. AND THE SAME APPLIES TO TRANSFORMERS.






In order to guarantee the reliable operation of your power transformer, the on-load tap-changer (OLTC) must function properly. To ensure this, every OLTC requires professional maintenance. The crucial maintenance criteria for on-load tap-changers using conventional oil technology are the number of tap change operations and the time in service.



## YOUR CHALLENGES

-  Avoid unplanned and costly transformer outages
-  Optimize asset management costs and service budget
-  Update transformer equipment to state of the art technology
-  Fulfill quality, safety and environmental requirements for transformer and OLTC service
-  Ensure maintenance of main transformer components

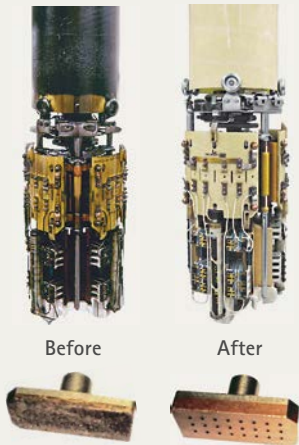
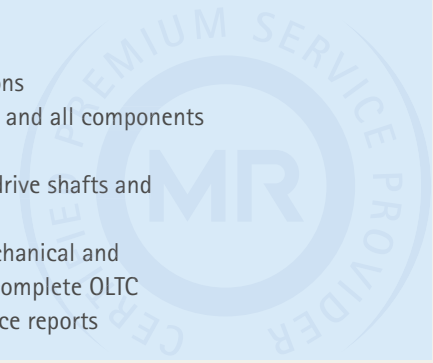
## OUR SOLUTIONS

-  Increase transformer availability and trouble-free OLTC operation by Premium OLTC service from MR
-  Raise transformer equipment life-time by regular MR OLTC service
-  Upgrade OLTC to state of the art material and use of original OEM spare parts
-  Provide OLTC service according to DIN ISO 9001 Quality Management and DIN ISO 14001 Environmental Management
-  Get your customized service recommendation and Premium OLTC service by MR

## ON-LOAD TAP-CHANGER MAINTENANCE BY MR.

### MR Premium Service

- Replacement of worn parts
- Precautionary replacement of highly stressed materials
- Update of materials to latest technology and innovation standards
- Calculation of absolute values and differences in contact wear
- Measurement of transition resistors
- Visual check of insulation sections
- Cleaning of insulating materials and all components
- Replacement of insulating oil
- Inspection of motor drive unit, drive shafts and protective relay
- Commissioning, incl. visual, mechanical and electrical function tests of the complete OLTC
- Provision of detailed maintenance reports



### Influences

- Material / type
- Load current
- Voltage stress
- Number of tap change operations
- Year of manufacture

### Maintenance triggers

Due to fast tap change operations, mechanical stress and switching arcs occur which leads to:

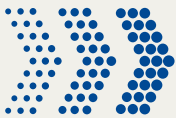
- Wear of components
- Contact wear
- Oil carbonization

### Criteria

Number of tap change operations or time interval, see example.

| Example of OLTC maintenance criteria |   |  |               |
|--------------------------------------|---|--|---------------|
| OLTC type (OILTAP <sup>®</sup> )     | No. of tap change operations without oil filter | No. of tap change operations with oil filter | Time interval |
| V III 250 Y                          | 70,000  | 140,000                                      | 6-7 years     |
| M III 500 Y                          | 80,000  | 150,000                                      | 7 years       |

For more details please see operating instruction on [www.reinhausen.com](http://www.reinhausen.com)



Please send us your OLTC serial number and number of tap change operations. We'll send you a customized OLTC service recommendation. We also service numerous OLTCs made by third-party manufacturers or produced under MR license.

## CLIENT-FOCUSED SOLUTIONS

For optimal performance throughout the entire transformer lifetime.



**HEALTH MANAGEMENT**  
sustained solutions



**LIFE MANAGEMENT**  
acute solutions



**PERFORMANCE MANAGEMENT**  
all-in solutions

**6,000+** service jobs pa, worldwide

**100+** years experience in the design of crucial transformer components

**280** qualified service technicians

**5** certified training centers

**24/7** ready for onsite support

**60+** years' service history

**24** months warranty on our services



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THE POWER BEHIND POWER.

