Sold & Serviced in USA by:
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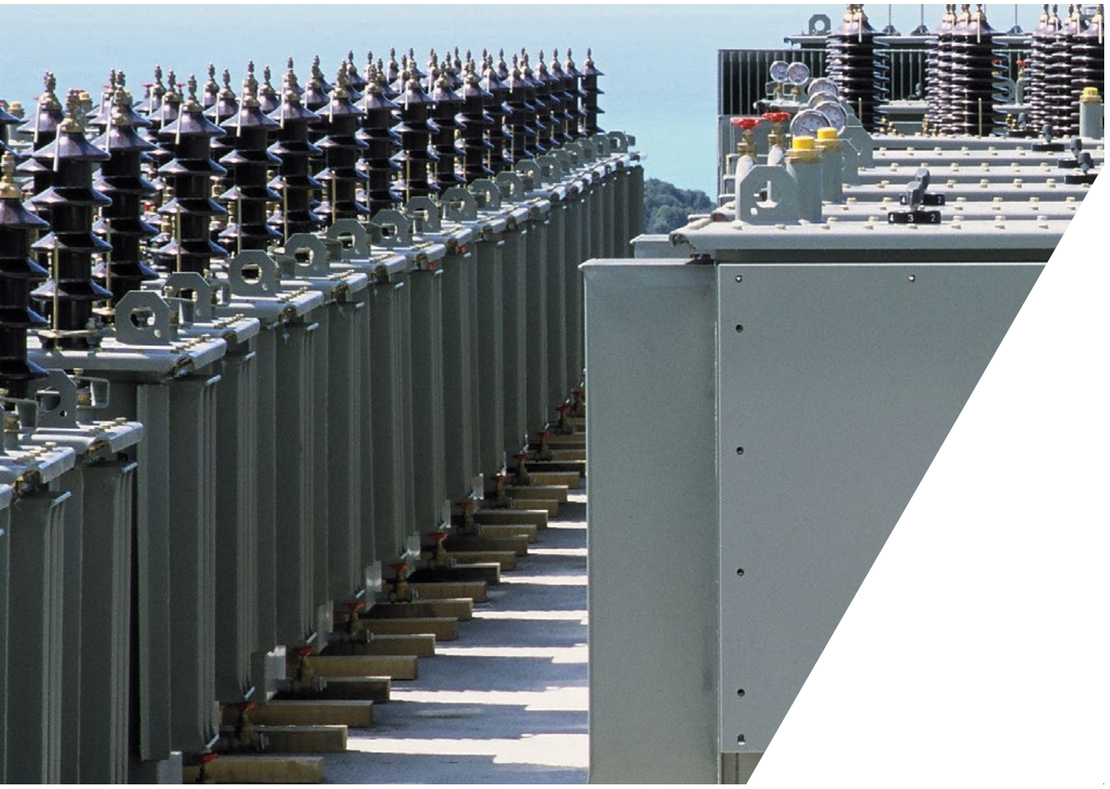
DTTS

Distribution Transformer Test System

Leaflet

HAEFELY

Current and voltage – our passion

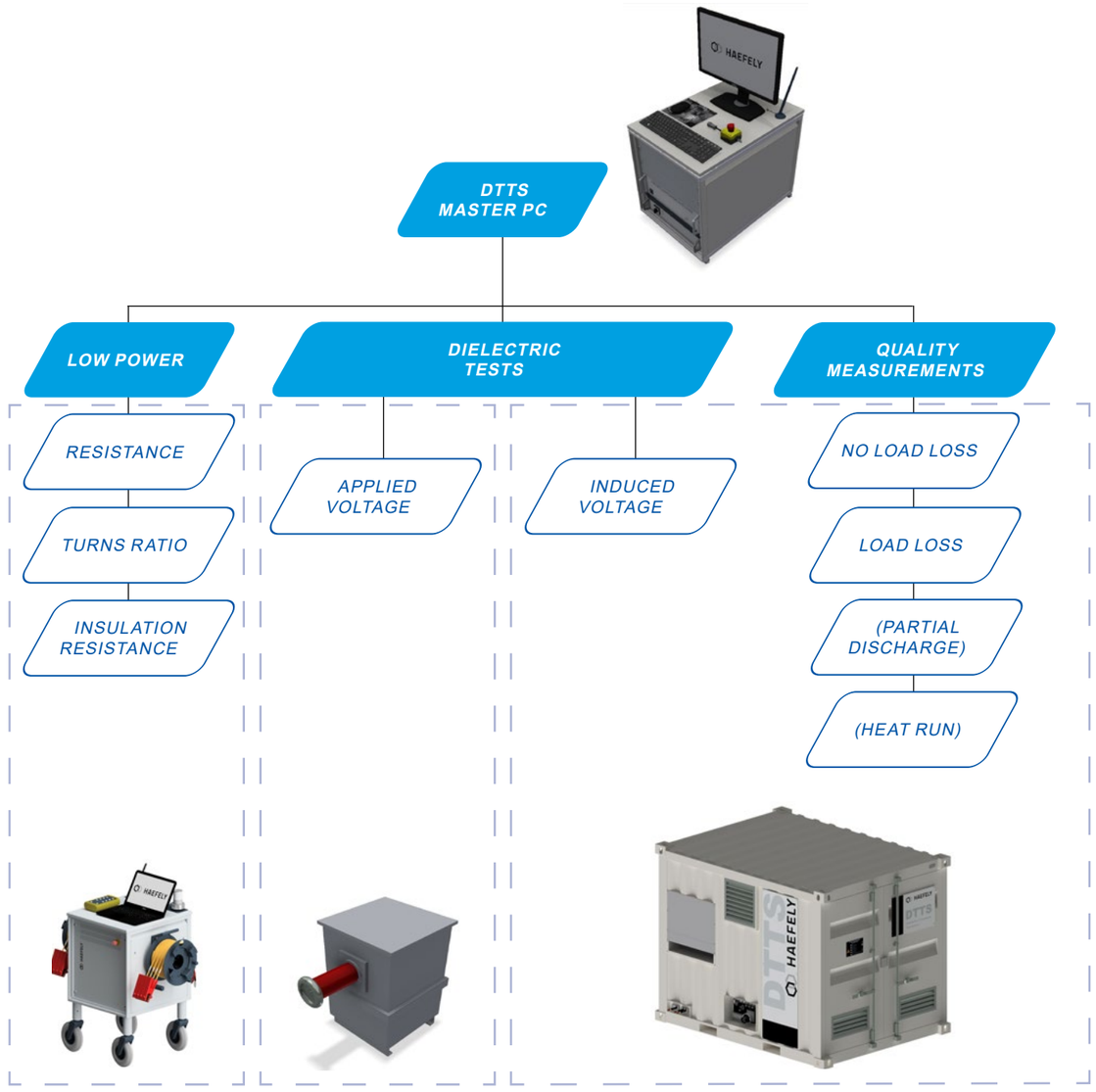


DISTRIBUTION TRANSFORMERS:
ROUTINE TESTING MADE EASY

Distribution transformers are “mass production equipment”; high testing-throughput is a must without compromising quality. Our Distribution Transformer Test System - DTTS aims at a highly automated test procedure using well-prepared sequences and minimal manual intervention to keep the test duration of a single transformer as short as possible and to avoid human errors.

DTTS has been designed with these requirements in mind, as a multifunctional tool for testing distribution transformers. All supported tests are performed in conformity with IEC, IEEE/ANSI and GOST.

Focus is on flexibility and maximum testing throughput, while ensuring quality and accuracy, continuing Haefely’s philosophy of more than 110 years.



BENEFITS

- *Integrates all routine tests within one unique system*
- *Fulfills all international standards (IEC, IEEE/ANSI and GOST).*
- *Extended low current and low voltage ranges for high accuracy Eco-Line Transformers*
- *Reduced testing time*
- *Centralized controlling and reporting*
- *Easy integration into existing production lines*

FEATURES

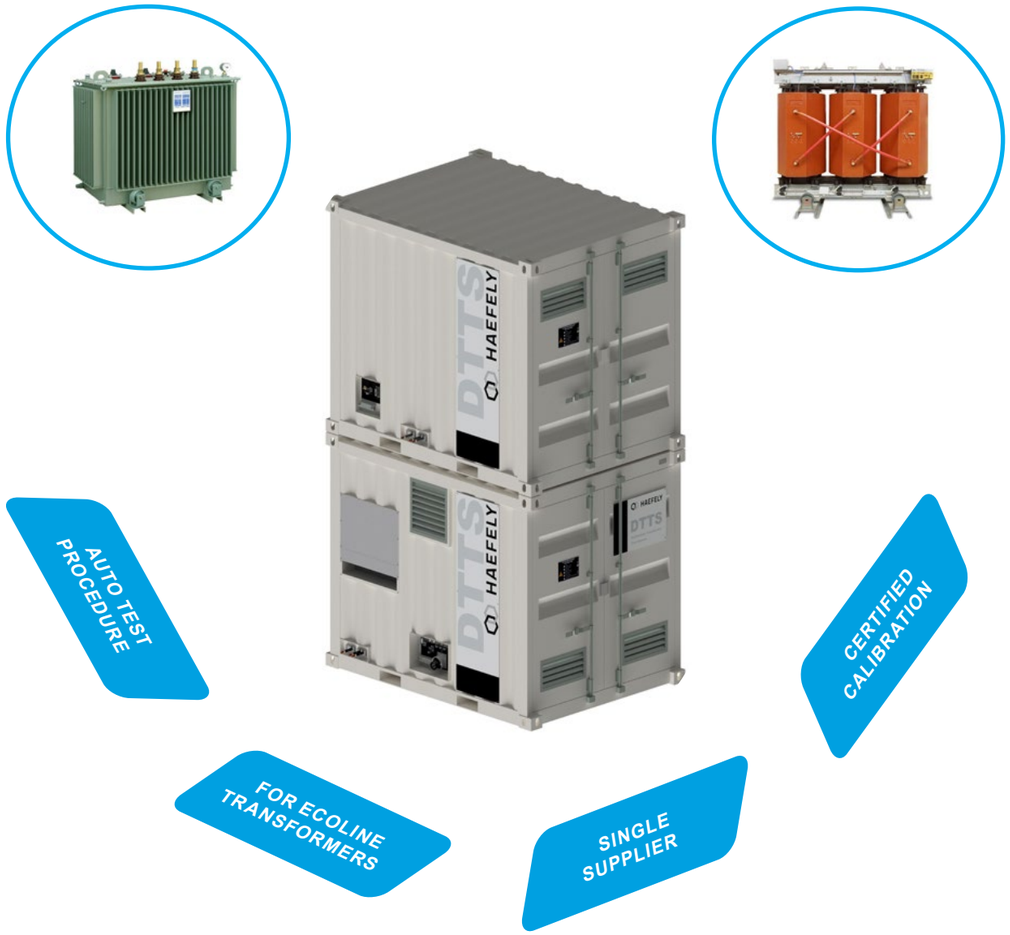
- *State of the art frequency converter*
- *The highest accuracy and the only completely calibrated and certified measurement system*
- *The lowest system-noise level allowing highly sensitive Partial Discharge measurements*
- *Powerful operating software with intuitive interface and automated test sequences*

APPLICATIONS

It is unique in the market, integrating all routine tests within one compact system. The DTTS is a complete turnkey solution assuring the customer 100% satisfaction.

Measurement system has an extended Lower current and Voltage range to suit High Efficiency transformers of the Eco-Line class.

The DTTS is capable of testing both dry type and oil immersed distribution transformers.



MODELS

		DTTS 3-500	DTTS 3-2500	DTTS 3-5000
DISTRIBUTION TRANSFORMER POWER	3 Ph 500 kVA	●	●	●
	3 Ph 2‘500 kVA		●	●
	3 Ph 5‘000 kVA		○	●

● Fulfills all routine tests AND heat rise

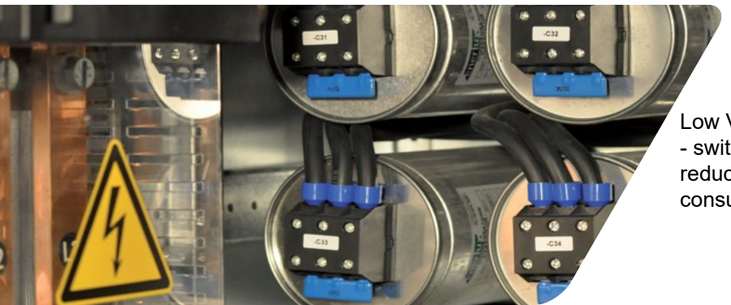
○ Fulfills all routine tests

TESTING CAPABILITY

High voltage side:	6 kV .. 36 kV
Low voltage side:	110 V .. 2100 V

MEASUREMENT CAPABILITY

Standard Voltage Range:	100 V / √3 … 4200 V / √3
Extended Low Voltage Range:	5 V / √3 … 100 V / √3
Standard Current Range:	0.5 A … 500 A
Extended Low Current Range:	0.05 A … 0.5 A



Low Voltage capacitor bank - switched automatically - reduces mains power consumption

HIGH CLASS HARDWARE: THE ONLY CHOICE

FREQUENCY CONVERTER HEART OF THE DTTS

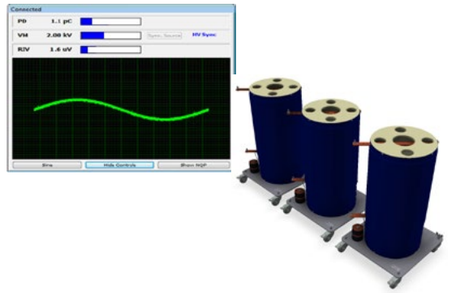
Thanks to our cutting edge frequency converter based front end, the DTTS is smaller, quieter, more flexible and maintenance free compared to a traditional motor generator based system.

Hardware Benefits

- Testing at any frequency possible (50Hz to 200Hz)
- Active harmonic compensation regulates the $THD_U \leq 5\%$ and to symmetric test voltage, even on highly non-linear loads.

Frequency Converter compatible with PD measurement

- Our unique filter topology allows highly sensitive partial discharge measurements, even for cast resin transformers



TMS-560 TRANSFORMER LOSS MEASURING SYSTEM

Our TMS-560, based on the TMS-580 known worldwide for accuracy loss measurement, guarantees the most accurate results also at low power factor

- The only calibrated and certified measurement system on the market, fulfilling IEC and IEEE requirements
- The only calibrated and certified measurement system on the market, fulfilling IEC and IEEE requirements

Test Certificate
Calibration

Object: * Distribution Transformer Measuring System
Type: * TMS 560
Manufacturer: * Haefely Test AG, Basel
Serial No: * 1200589 B02
Date(s) of Test(s): * 12. March 2012
No. of Pages: * 12
Test Specification(s): * Inhouse Calibration Manual, TMS_IHC_1.05

SWISS CALIBRATION

Work Order: KA11100987
Remarks:

Haefely Test AG - a ISO 9001:2008 certified company - certifies that this equipment has been duly inspected and tested prior to shipment. Its mechanical, electrical and operational performance was found to be in accordance with or better than the given test specifications.

Basel, 27. Mar 2012 Tested by: M.Egmann Approved by: L. Walder Haefely Test AG

Test certificates without signature, seal and filled * fields are not valid. This certificate may not be reproduced other than full. Extracts may be taken only with permission of HAEFELY TEST AG.

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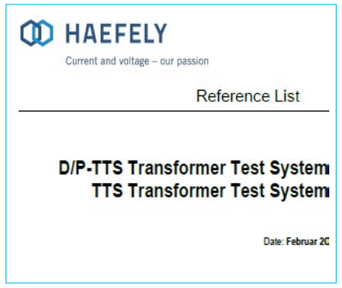
REFERENCE LIST

DTTS has a long reference list with presence in dozens of countries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Current and voltage – our passion

Reference List

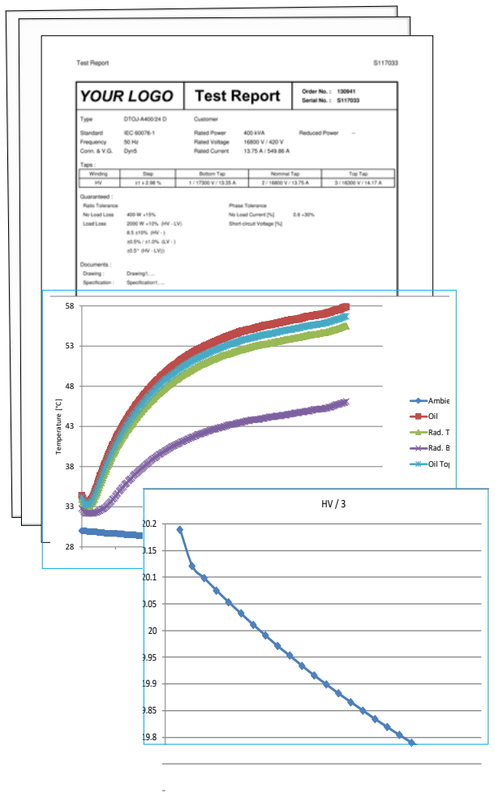
D/P-TTS Transformer Test System
TTS Transformer Test System

Date: Februar 20

APPLICATION SOFTWARE

Our DTTS/APSW software, based on years of collaboration with many customers, performs complete automated test sequences from a single computer.

- Advanced test procedure with Pass/Fail functionality
- Automated calculation of all results and reporting in a single document
- Built-in alarms for safe operation
- Transformer templates for easy test object data input
- Graphical DUT connection support



Report generation is automated.
All test results in one report including heat run, cooling curves

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V2006

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precision. swiss made.