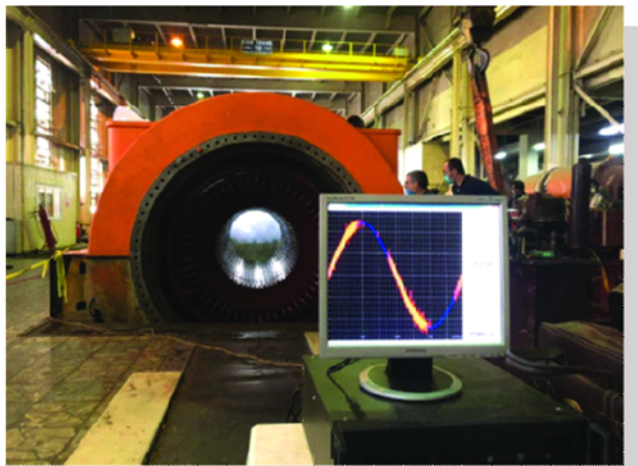


Rotating electrical machines test systems

DIELECTRIC TEST SYSTEMS

The most common test for manufacturer and service groups is a high voltage AC dielectric withstand test. The test involves applying AC voltage to the phase winding in order to verify the dielectric strength. This confirms quality of the generator insulation, as well as assesses the insulation condition after it has been installed.

insulation condition after it has been installed. tests are performed according to IEC 60034 and other standards. In addition to AC dielectric test system JDEVS performs DC hipot test by adding a rectifier to the AC set-up



PARTIAL DISCHARGE MEASURING SYSTEM

The measurement of the system is based on analysis of the electrical pulses are caused by partial discharge according to IEC 60270 and 60034-27-1.

This system is applicable to electrical machines, power transformers, high-voltage capacitors, cables, and surge arresters.

DISSIPATION FACTOR & CAPACITANCE MEASURING SYSTEM TCM-400

Insulation strength is essential for reliable operation of high-voltage (HV) equipment. Dissipation factor and capacitance measurement can help in a much better evaluation of the insulation.

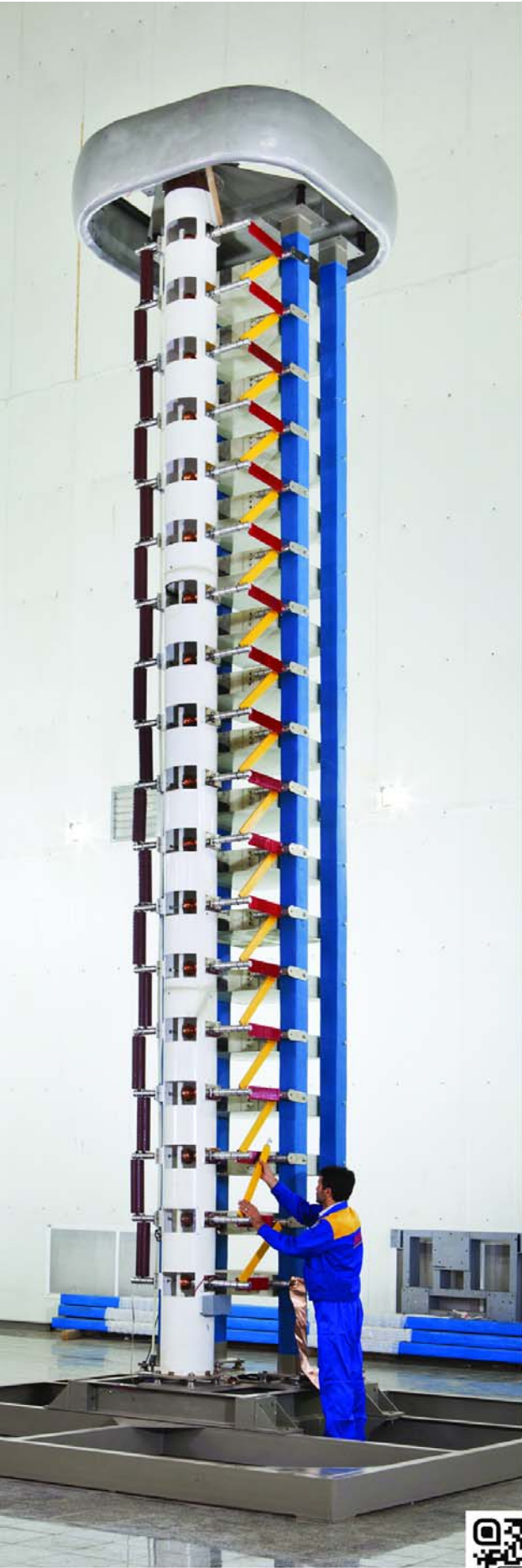
TCM-400 includes standard 30 kV capacitors, rated operating frequency of 50 Hz (20-300 Hz is covered), dissipation factor measurement accuracy of 1×10^{-4} , current stages of 200 mA up to 3 A, etc. This equipment is applicable to electrical machines (motors and generators), power transformers, instrument transformers (CT & PT), reactors, high voltage capacitors, power cables, and etc.



ROTATING ELECTRICAL MACHINES TESTS ACCORDING TO IEC 60034:

- 1- Partial discharge measurement
- 2- Measurement of insulation resistance of stator winding and polarization factor
- 3- Measurement of dissipation factor and capacitance of stator winding
- 4- Measurement of impedance and resistance of stator
- 5- Measurement of Insulation resistance of rotor winding
- 6- AC and DC dielectric tests
- 7- RSO test on rotor winding





JDEVS

High Voltage Engineering Center



HIGH VOLT



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