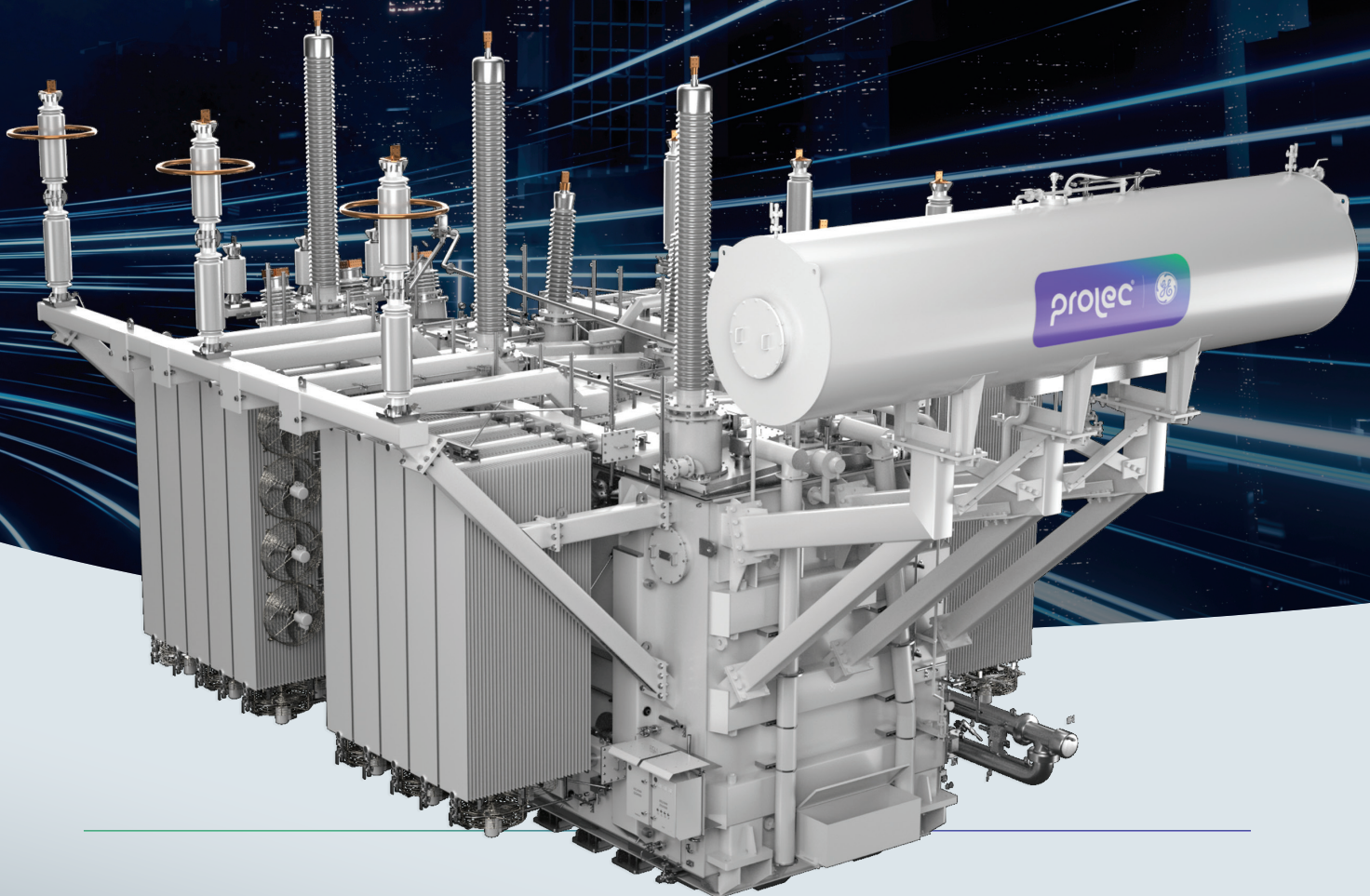


prolec®



Autotransformers



Prolec GE transformers are used in a wide range of utility, commercial and industrial applications. High-grade materials, combined with state-of-art technology in our design and manufacturing systems are key elements of a transformer that will deliver years of high reliability service.

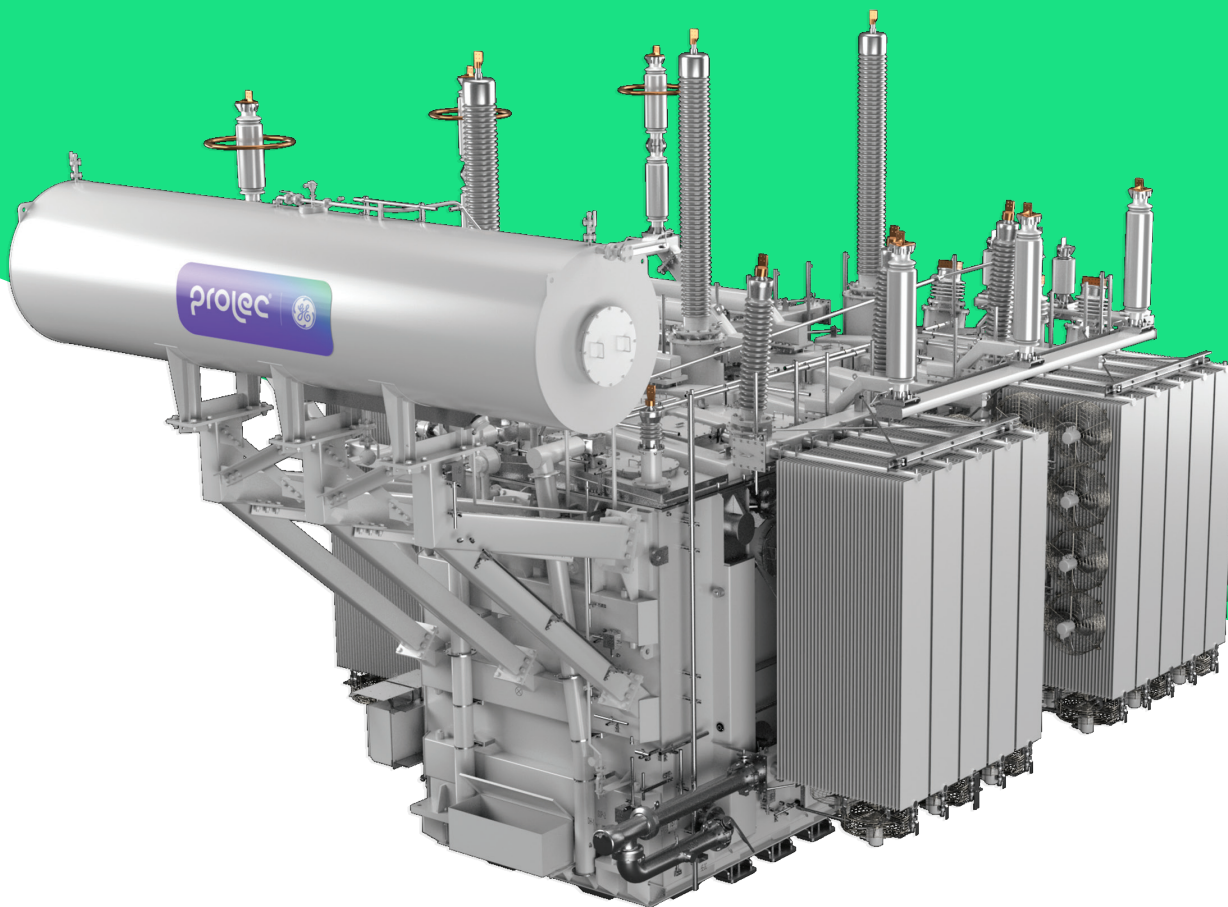
With more than 300,000 MVA installed worldwide in over 35 countries around the world, Prolec GE has the engineering and manufacturing expertise to design, build, optimize and deliver solutions to the electric industry.

Electric power transmission is the bulk transfer of electrical energy, from generating power plants to substations located near population centers. Transmission lines, when interconnected with each other, become high voltage transmission networks.

We offer a wide range of autotransformers, shunt reactors, transformers for FACTS applications such as SVC and VFT, which are needed to lower or increase voltages used in transmission lines, and to interconnect systems operating at different voltage classes. Our products are used by utilities worldwide.

Prolec GE offers a complete line of liquid-filled autotransformers with:

- 1,000 MVA triphasic or 500 MVA monophasic.
- 550 kV (1,675 kV BIL).
- 50 or 60 Hz.
- LTC or DETC in HV.
- Low noise level NEMA:
 - 25 dBA.



Standard features

- Meets or exceeds current:
ANSI, IEEE, CSA and IEC standards.
- Load tap changers:
 - Reactive vacuum.
 - Resistive.
- Cooling classes:
 - ONAN
 - ONAF
 - ODAF
- Cover mounted bushings.
- Tank features:
 - Lifting lugs.
 - Pulling eyes.
 - Radiator header valves.
 - Jacking bosses.
- Accessories:
 - Pressures relief device.
 - Magnetic liquid level gage.
 - Winding temperature indicator.
 - Pressure vacuum gage & bleed valve.
 - Drain valves.
 - Global type.
 - Nameplate.
 - Removable radiator.
 - Manholes in cover (2).
 - Transformer oil, ASTM type I.
 - Sealed tank oil preservation systems.
 - External core ground bushing.
 - HV tap changer, de-energized operation.

Optional features & accessories

- Low noise level NEMA:
 - 25 dBA.
- Cooling fans.
- On load tap changer HV or LV, in tank or external.
- Multi-ratio current transformer.
- Automatic gas preservation systems.
- Rapid pressure rise relay:
 - Under oil.
 - In gas space.
- Lighting arresters.
- Transformer oil, ASTM type II.
- Side mounted bushings ≤ 34.5 kV.
- Conservator oil system.
- Buchholz relay for conservator.
- Forced oil cooling equipment.
- Provisions only for safety rails.
- Provisions for lighting arresters.
- Schnabel preparation.
- Vegetable oil.
- Extra low gas generation during factory tests
(over 75% lower than industry standards).



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engineering and
manufacturing expertise
to design, build, optimize
and deliver solutions to
the electric industry.

Tests

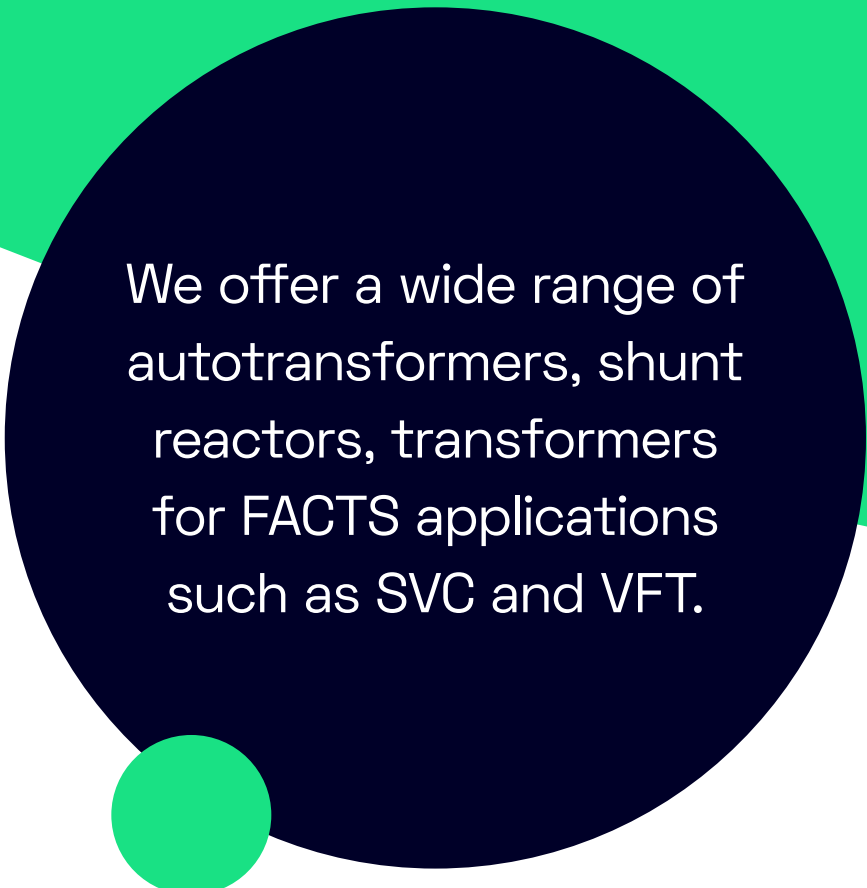
Each transformer receives all standard commercial tests in accordance with ANSI, IEEE, CSA and IEC, with test reports available by serial number of the transformer:

- Polarity of windings & angular displacement.
- Ratio.
- No-load loss & exciting current.
- Load loss & impedance.
- Lighting impulse (class II).
- Low-frequency dielectric tests:
 - Applied voltage tests on all windings.
- Insulation power factor (class II).
- Induced tests.
- Partial discharge in microvolts (class II).
- Partial discharge in picocoulombs (class II).
- Dissolved gas analysis (class I).
- Temperature rise.
- Zero phase sequence.
- Front of wave.
- Switching surge.

Technology development

Research and development is a priority at Prolec GE. Our applied technology center boasts more than 80 engineers and specialists developing multi-generational product plans, design platforms, and continuous improvement processes. Their expertise and efforts make our customers' operations more reliable, efficient and environmentally sound.

We also draw technology expertise and ideas from our partners, including GE and its worldwide technology resources, our suppliers, customers, consultants, and university centers.



We offer a wide range of autotransformers, shunt reactors, transformers for FACTS applications such as SVC and VFT.

Complete range of turnkey services

You can trust Prolec GE with every aspect of your transformer solution for accountability and continuity advantages. Your project team coordinates and orchestrates your entire transformer package, including:

- Rigging and mobilizations.
- Transportation.
- Installation.
- Storage preparation.
- Field services.
- Maintenance.
- Training.
- Condition assessment.
- Spare parts.

For more information: info@prolec.energy



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