

Pauwels' expertise is extensive in the design and manufacturing of high voltage power transformers - top of the range for the transmission of electrical energy.

Every power transformer is individually designed to be completely in line with the needs of the customer, meeting the most stringent requirements and applications. Pauwels provides its customers with appropriate, innovative solutions and anticipates their needs. As far as quality is concerned, Pauwels has firmly established its reputation. The company takes pride in building products that perform safely and reliably, and provide an excellent life-cycle value.

Tailor-made POWER TRANSFORMERS

Pauwels supplies a wide range of custom-made power transformers:

- Small Power transformers up to 20 MVA / 69 kV
- Medium power transformers
- Large power transformers up to 575 MVA / 525 kV, 1675 BIL
- Autotransformers up to 700 MVA / 750 kV, 1675 BIL
- Generator step-up transformers (GSU)
- Phase-shifting transformers up to 500 MVA / 525 kV
- Traction transformers
- Mobile transformers
- Reactors
- HVDC converter transformers
- Rectifier transformers
- Furnace transformers
- Shunt reactors
- Smoothing reactors

Once the power transformer windings are dried, they are hydraulically compressed to size in accordance with the calculated short-circuit forces to obtain the design height and to guarantee a perfect ability to withstand short-circuit effects. The pressure per winding required (up to 300 tonnes) is electronically controlled.



POWER TRANSFORMERS



Manufacturing plants on 3 continents

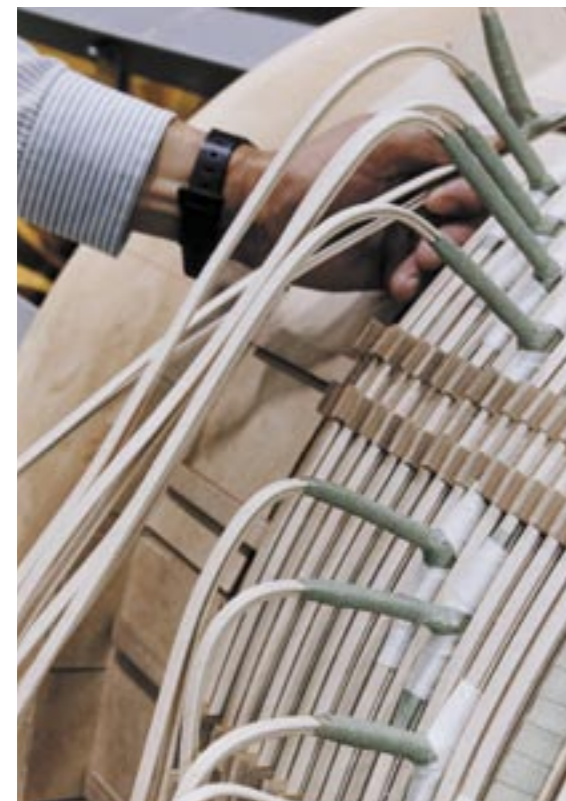
Mechelen, Belgium

Pauwels Trafo Belgium N.V. (headquarters)

In addition to its distribution and cast resin transformer range, the flagship of the Pauwels Group also supplies custom-made medium and large power transformers (5 MVA up to 575 MVA / 525 kV), autotransformers up to 400 MVA / 525 kV, phase-shifting transformers up to 500 MVA / 525 kV, special and mobile transformers. The design of the company's medium power transformers combines the advantages of Pauwels' highly developed manufacturing techniques with the onerous design constraints for power transformers to produce an economical yet high-performance product.



An automated tilting cradle is used to raise the windings from the horizontal to the vertical position in order to ensure that the larger windings retain their perfectly round shape when the metal mandrel is removed.



Winnipeg, Manitoba, Canada

Pauwels Canada Inc.

In 1994 the Pauwels Group acquired Federal Pioneer, a division of Schneider Canada, specialized in the production of large power transformers. Technologically, this acquisition led to the development of a very successful blend of Belgian expertise and Federal Pioneer's EHV transformer know-how. Today, the product range of Pauwels Canada Inc. includes medium and large power transformers up to 575 MVA / 525 kV, mobile transformers, autotransformers up to 700 MVA / 525 kV, phase-shifting transformers up to 500 MVA / 525 kV and HVDC converter transformers up to 315 MVA / 500 kV DC.

The Pauwels Group's technological expertise in the field of HVDC converter transformers is among the most advanced in the world, as is its leadership in large autotransformer technology.

Washington, Missouri, USA

Pauwels Transformers Inc.

Aside from an extensive distribution transformer range, Pauwels Transformers Inc. also offers a reliable and cost-effective Small Power product line which includes pad-mounted, primary unit substation and secondary unit substation transformers up to 20 MVA / 69 kV. All Small Power transformers can be customized to meet various specific requirements from overloadability and low noise to reduced no-load loss and lower load loss.

Bogor, Jakarta, Indonesia

PT. Pauwels Trafo Asia

With twenty years of experience as a transformer supplier and contractor for large electrification projects to its credit, the Pauwels Group and a local partner set up a brand new factory in Indonesia. In 1997, a daughter company of the Medco Group, Meta Epsi Engineering, took a stake in the company which was renamed Pauwels Trafo Asia. Today, Pauwels Trafo Asia is not only an established supplier of power transformers to the local Asian market, but the company is also highly successful in exporting to Australasian countries. Pauwels Trafo Asia manufactures power transformers from 10 MVA to 260 MVA / 220 kV - 950 kV BIL.

Tápiószéle, Hungary

Ganz Transelektro

For 125 years, Ganz Transelektro has been an established name in the Hungarian heavy electrical industry and boasts some very famous historic names of inventors of transformers amongst its employees. It has become a subsidiary of CG/Pauwels, adding its departments Transformers, Gas Insulated Switchgear (GIS) and Contracting to the Groups well-established portfolio. Ganz Transelektro designs and manufactures single- and three-phase power transformers up to 750 kV.



Detailed information about power transformers is available upon request.