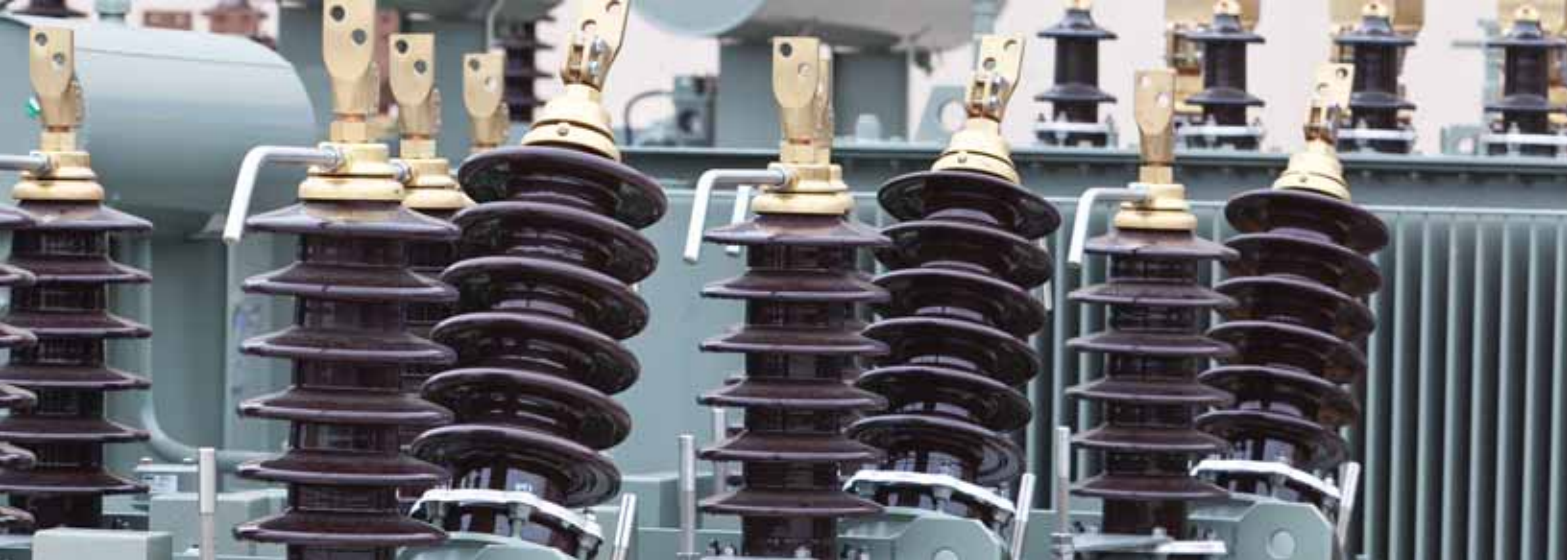




Oil Immersed Distribution Transformers

50kVA - 12500kVA, 34.5kV

BEST



Oil Distribution Transformers

Production Range 50kVA - 12500kVA, 36kV More Than Half a Century of Experience in Distribution Transformers

BEST Transformers has references in more than 50 countries in 5 continents.

Distribution transformers are the essential parts of electric power systems delivering energy to the consumers. Their reliability and efficiency are the crucial elements for all users in order to provide continuous power to the network.

BEST Transformers has more than 50 years of experience with these types of products in a variety of applications such as utility, industry, special industry, traction or residential and in a variety of environmental conditions.

Our success lies in our quality concentric approach for all activities. Sourcing from reputable material suppliers, strong logistics, manufacturing and quality control, in-house core cutting/slitting/stacking and in-house mechanical production offers high quality transformers and bring us success in more than 50 countries.





IQ Net TS 18001 Certificate



IQ Net ISO 9001-2008 Certificate



IQ Net ISO 14001-2005 Certificate



Focus on Quality Management Systems

The mission of BEST Transformers is to improve competition ability and product range; in order to achieve sustainable production and to ensure continuous occupational security and continuous improvement.

Supplying all our products and services in a manner, which is a customer oriented, process-weighted, environment conscious, safe and secure, means to us Quality. This is our prerequisite to achieve our company goals.

Our Quality Management Systems is certified to ISO 9001, ISO 14001 and ISO 18001. BEST Transformers customizes the design complying with international standards such as IEC, ANSI, BS, GOST, DIN...

Quality standards are strictly applied during production and step by step manufacturing quality checks are conducted. All transformers are finally tested in our test laboratories with the presence of our customers. All test laboratories are accredited in accordance with TS EN ISO/IEC 17025-2005.



TS EN ISO IEC 17025 EN





Iron Core

BEST Transformers has in-house GEORG core cutting & slitting equipment and stacking tables in a dedicated state of art factory for Core Production.

These PLC controlled state of art GEORG machines with their accurate treatment help us obtain right properties in the material.

The step-lap stacking is the standard technique applied in our facilities, which further reduces losses and noise level in our design.

Dedicated factory for cutting and slitting enables us to have particle and dust free production field for active parts.



• Step-lap design



• Inspection



• Hydraulic lifting



Windings

BEST Transformers applies both circular and oval type core and coil design up to 2500 kVA. For transformers between 50 kVA and 250 kVA, layer winding technique is applied with flat conductor on low voltage winding and circular enamel conductor on high voltage winding. The conductor material is either copper or aluminum.

Beyond 250 kVA, depending on customer requests, aluminium or copper folio conductor is utilised for low voltage winding.

For high voltage windings, flat or enamel conductors are used with layer or disc winding technique. BEST Transformers utilises craft or epoxy type insulation paper with high temperature characteristics.



• Folio conductor



• Horizontal winding machine



• Winding process



Active Part & Drying

Moisture needs to be effectively removed from the insulation material. It is a crucial requirement in distribution transformers ensuring trouble free operation through the life span of the transformer.

BEST Transformers applies solvent vapor system for drying all distribution transformers.

The core, windings, clamping devices, on or off-load tap changers if specified are put together to form the active part and the active part is dried before tanking proces. The step by tep manufacturing quality control is conducted throughout the process.



• Winding under press



• Active part drying



Tank & Oil

Tank

BEST Transformers has a dedicated facility for mechanical production. All mechanical parts except radiators and corrugated walls are produced in-house with high quality standards. During production, special care is given to surface treatment and welding. Our facility offers high quality parts with state of art machinery.

Oil

Mainly mineral oil is utilized in distribution transformer applications. However, BEST Transformers also offers silicone oil which has high fire point above 300 C. Chemical properties of insulation oil is controlled at all manufacturing steps in our modern accredited chemical test laboratory.



• Oil treatment plant



• Oil testing



• Tank manufacturing

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