

ISO 9001 : 2000 COMPANY



KVA PROCESS TRANSFORMERS PVT. LTD.

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Power Transformer

Up to 50 MVA, 132 KV class



- > Generator Transformer
- > Unit Auxiliary Transformer
- > Station Auxiliary Transformer
- > Power Transformer
- > Interconnecting Transformer (Auto Transformer)
- > Trackage Transformer for Railways

Coil Construction

The HEART of the transformer is COILS made of Electrolytic Grade Copper Conductor duly insulated. The Coil designing and quality are key to its efficiency and longevity. The Company designs coils specifically for each application and uses thermally upgraded paper for longest insulation life.

Core Construction

Design: The core is designed with optimum flux density to minimize core loss and cost.

Materials: AISI-grade - H0, M3, M4 or other - high - permeability CRGO steel Laminations is used.

Construction: The laminations are handled with minimum bending to preserve the low loss properties. The core is clamped in a rigid frame with uniform pressure to reduce mechanical effect on performance.

Electrical Components: The core-and-coil assembly and all current - carrying parts - are immersed under oil in a controlled environment preventing contamination by ambient outdoor air, industrial environments, salt spray and other.

Tank and Radiators

The tank is fabricated of high-quality, heavy-gauge steel plate. It is designed to withstand operating pressure and vacuum as well as the stress of shipping, rolling and jacking.

Final Assembly

Fittings, gauges and controls are assembled on the tank. Control wiring is completed and tested and the core-and-coil assembly is placed in the tank after necessary treatment to improve IR value.

Bushing and other equipment are installed and wired after the coils are covered with oil in a controlled environment.

The tank surface is cleaned to prepare for protective coating for the industrial environment. After a thorough check the tank is covered with a rust-inhibiting primer. After drying, two coats of gray enamel paint are applied for a durable and attractive finish.

Testing

The coils and later the core and coil assembly are tested before proceeding to the next stage. The routine tests are performed on all completed power transformers.