



**Dynamech**  
Electropower Pvt. Ltd.

ISO 9001-2015 & ISO 14001-2015 CERTIFIED COMPANY

# DYNAMECH ELECTROPOWER PVT. LTD.

*Powering*  
**NATION**



**DISTRIBUTION TRANSFORMERS**

**POWER TRANSFORMERS**

**DYNAMECH**  
**TRANSFORMERS**



# LOW CAPTIVE CONSUMPTION, DURABLE, POWER SAVERS, HIGH EFFICIENCY

**DYNAMECH ELECTROPOWER PVT. LTD.** is a unit which manufactures and repairs Power and Distribution Transformers. **DYNAMECH** makes Transformers which are widely used by various State Electricity Boards, Development Authorities, Public and Private Sectors. The Transformers are manufactured conforming to ISS/IEC Standards at our works stations in Bhopal, by skilled technicians with supervision and rigid quality control by qualified and experienced Engineers. These can also be designed as per any National and International specifications. These Transformers carry several exclusive features for long & trouble free performance with high efficiency.



## ► INSULATION & OIL

The Insulation material like pre-compressed boards, blocks, corrugated cylinders, Bakelite tubes, insulating tapes, empire sleeves, glass sleeves varnish, epoxy bushing, porcelain bushing etc. are used of best quality to ensure long life of the transformers. Oil used as a coolant and insulating medium is of best quality conforming to IS : 335. Before filling in to the transformers, oil is centrifuged, dehydrated and filtered through "Stream line Filtration Plant" and tested to ensure free from moisture.

## ► TANK & RADIATORS

The tanks are made from prime quality mild steel sheets, plates and pipes by electrical welding. Proper bracing and stiffeners are provided for robust Construction. The tanks are tested at specific pressure for leakage at joints / Welds. Sufficient cooling radiators are provided for maximum dissipation of heat during extreme ambient temperatures. Radiators can be corrugated, elliptical tube or Pressed steel type as per clients requirement.

## ► CORE

Core is made from best grade imported cold rolled grain oriented (CRGO) silicon steel laminations with the latest technique of annealing. Interleaved and mitred joints reduce the core losses and magnetising current considerably. Core (Cold Rolled) is specially designed to sustain over fluxing up to 12.5%. Individual stamping is insulated on both sides with oil resistant insulating material. Core is camped with steel channels rigidity to reduce the cartile sound level and earthed with electrical grade copper sheet.

## ► WINDING

The winding can be any type (i) Spiral (ii) Crossover (iii) helical (iv) disc, designed to withstand the optimum electrical, Mechanical, dynamic and thermal stresses depending upon the current & capacity of TIFS voltage. The coils are wound with electrolytic grade high conductivity, annealed wire and strips covered with high quality insulation. All Coils are reinforced, insulated and impregnated with insulating varnish to withstand the effect of short circuits, minimise the Axial and Radial forces of winding and impulse voltage shocks. Cooling ducts are provided to minimise the hotspot temperature gradient in winding and oil.

## ► OVERLOADING

Transformers are designed for overloading excess than normal rating as per IS : 6600

## ► VECTOR GROUPS

Various vector groups can be provided as per demand.





## POWER TRANSFORMERS

Power Transformers are used in Transmission Network of higher voltage for step up and step down applications. Dynamech has a comprehensive range of Power Transformers that are designed to provide uninterrupted Power Supply as per Standard: IEC / BIS

Voltage Class: upto 33 KV

Capacity: Upto 10 MVA

## DISTRIBUTION TRANSFORMERS

The final Transformer in the Power Distribution system that steps down the voltage level usable at our homes/offices is called Distribution Transformer. These are designed to be robust and energy efficient.

Standard : IEC/BIS

Three Phase Transformers

Capacity : upto 2500 KVA  
Voltage Class : up to 33 KV



Tested by  
NABL Accredited  
Labs



## ▶ FITTING & ACCESSORIES



Standard fitting recommended in IS 2026 – 1977 are provided, however following extra fittings can be provided as per specific requirement of customer.

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> <b>BUCHHOLZ RELAY</b>                     | <input checked="" type="checkbox"/> <b>MARSHALLING BOX</b>                |
| <input checked="" type="checkbox"/> <b>WINDING COIL TEMPERATURE INDICATOR</b> | <input checked="" type="checkbox"/> <b>PRV (PRESSURE RELEASE VALVE)</b>   |
| <input checked="" type="checkbox"/> <b>DIAL TYPE THERMOMETER</b>              | <input checked="" type="checkbox"/> <b>MOA (MAGNETIC OIL LEVEL GAUGE)</b> |
| <input checked="" type="checkbox"/> <b>HV &amp; LV CABLE BOXES</b>            |   |

## ▶ TESTING FOR QUALITY ASSURANCE

Our works is equipped with all requisite testing facility for quality assurance. Each transformer is tested for all tests conforming to IS : 1180 and IS : 2026 by qualified and experienced engineers with precision instruments.

### The test involved are following :

- ✦ Measurement of insulation resistance & PI Test.
- ✦ Measurement of Voltage Ratio.
- ✦ Check up of Vector Group and Polarity.
- ✦ Induced over voltage test at double voltage and double frequency.
- ✦ Separate source high voltage test of HV side and LV side.
- ✦ Measurement of No Load losses and magnetic current.
- ✦ Measurement of load losses and impedance voltage.
- ✦ Measurement of Zero sequence current.
- ✦ Measurement of HV winding and LV Winding resistance.
- ✦ Measurement of temperature rise of winding and oil of transformers at full rated load.
- ✦ Pressure and vacuum testing of transformer for permanent deflection of body.
- ✦ Check up of dielectric strength of Transformer Oil. (Test Certificates are issued with each transformer)
- ✦ Tan Delta Test (for all used insulation) oil bushing paper.
- ✦ Paint adhesion test, Partially Discharge Test, Magnetic Balance Test.

## ▶ ADDITIONAL TESTING

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> <b>SHORT CIRCUIT WITHSTAND TEST</b> | <input checked="" type="checkbox"/> <b>IMPULSE VOLTAGE WITHSTAND TEST</b> |
| <input checked="" type="checkbox"/> <b>TEMPERATURE RISE TEST</b>        | <input checked="" type="checkbox"/> <b>AIR PRESSURE TEST</b>              |

(These are the type tests and can be arranged at CPRI Bhopal or other recognized Laboratory on Payment, if required by customer.)

## ▶ WARRANTY & AFTER SALES SERVICE

REPRESENTED BY

Our products are warranted against any manufacturing defect. Every transformer sold is backed by our excellent and prompt service network. We are always ready and available



Call Us: **9229999911, 0755-4265615/16** Toll free: **1800-274-0282**

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