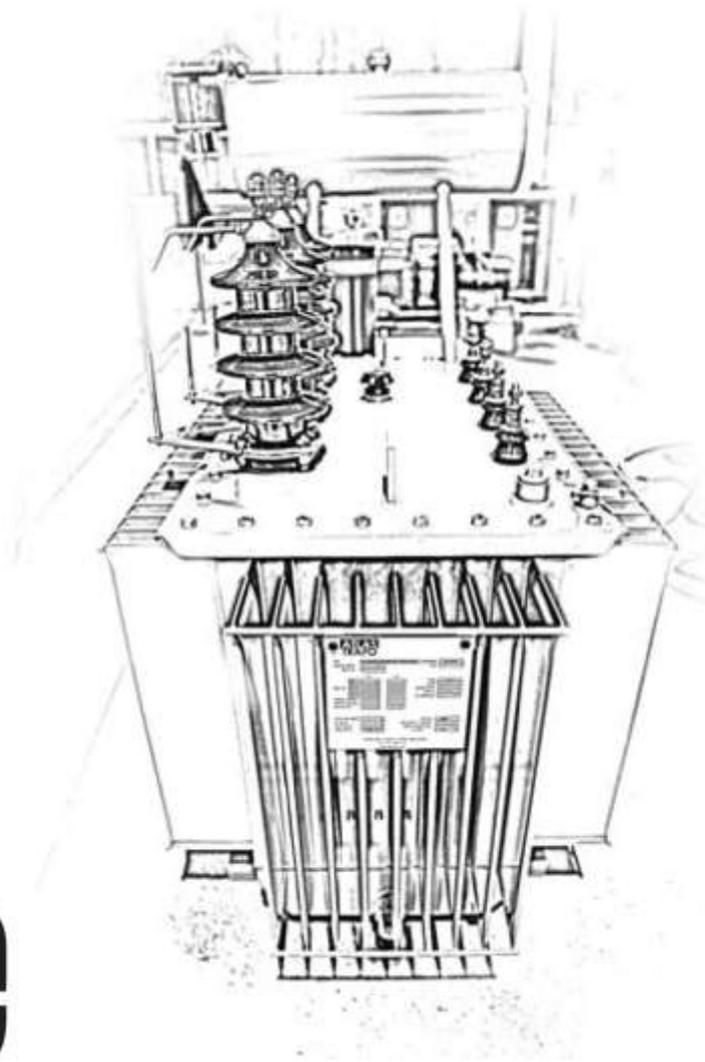


**ATLAS
TRAFO**



**we
do
transformers**

simple
durable
reasonable
what you need



who are we?

Atlas Trafo A.S. is established to produce innovative, reliable and efficient transformers according to customers' needs.

In our products and services, we deliver customized, integrated solutions to our customers' with our engineering background.

Founders are transformer production expert Electrical and Electronics Engineers, graduated from Middle East Technical University.

We never ignore to act responsibly in terms of environmental awareness, social duties and business ethics.



production plant

Atlas Trafo A.S. has its own production plant in İzmir-Torbalı. Production plant has 3500 square meters closed area with total of 5500 square meters. Production plant is equipped with latest, hi-tech machineries to sustain high efficiency and to assure high quality standards.

Atlas Trafo is targeting to manufacture transformers with the same standards as worldwide known transformer manufacturers have. Atlas Trafo gives high priority to occupational health and worker safety.



production stages

Magnetic Core

A transformer is an electrical device that transfers energy between two or more circuits through electromagnetic induction. A varying current in the transformer's primary winding creates a varying magnetic field in the core and this varying magnetic field induces a varying voltage in the secondary winding. For best energy transfer each transformer core is produced with interleaved laminations of cold rolled, grain orientated, low loss electrical sheet steel conforming. Our core designs are ensuring minimum noise and loss levels with uniform flux distribution throughout the magnetic circuit.



production stages

Low Voltage and High Voltage Windings

According to customer requirements Low Voltage and High Voltage windings are designed with Copper or Aluminum conductors. LV windings are made of paper insulated conductors or foils. HV windings are made of enameled wires or paper insulated conductors. All components of insulation are made from electrical grade insulating board; processed to ensure electrical and mechanical stability throughout the temperatures found in operational service. High technology winding machines and manufacturing with qualified technicians ensure that each winding is able to withstand the excessive axial forces, which may result from external sources.



production stages

Tank and Top Cover

Transformer tanks are manufactured using mild steel, which is electrically welded. Cooling is effected corrugated walls or radiators, electrically welded and independently pressure tested. Metal is pre-treated by sand blasting, then immediately covered with a high performance industrial paint finish, suitable for highly corrosive environments. This finish is designed to give maximum world-wide, long term protection in coastal, industrial, and general environments with suitable heat and oil resistance.



production stages

Drying Process and Final Assembly

Completed core-coils are dried in thermostatically controlled vacuum ovens, fitted into the transformer tank and filled with oil under a vacuum. This is followed by oil pressure adjustments. After the tanking process is complete the transformer is prepared for test.



production stages



Test

ATLAS Trafo applies all routine tests, type and special tests as per IEC EN 60076-1 standard. Tests according to ANSI/NEMA/CSA standards can also be carried in ATLAS Trafo laboratory. Intermediate tests in all production stages are carried to assure high quality production as well.

products

Oil Immersed Distribution Transformers

ATLAS Trafo produce oil immersed distribution and power transformers in a range of 50 kVA to 15 MVA up to 36 kV.

1 Phase Distribution Transformer

- Available ratings in between 10 to 100 kVA up to 36 kV.
- Accessory combinations for catenaries, utilities or special applications are possible.
- Designed as pole mounted with oil conservator.

3 phase Distribution Transformers

- Available ratings in between 25 to 2500 kVA up to 36 kV.
- Hermetically sealed or with oil conservator.
- Copper or aluminum conductor as per request.
- Low loss, low temperature rise options.
- Loss optimization for optimum efficient life cycle.
- Special insulation class and final coating options.
- Top or side mounted HV and LV.
- Off load tap changer with various tapping combinations.
- Pole or ground mounted design up to 400 kVA
- Ground mounted design over 400 kVA.
- Accessory combinations i.e. protection relay, cable box, thermometers, valves are possible.



products

3 phase Medium Power Transformers

- Available power ratings in between 2500 kVA to 15000 kVA.
- Available voltage ratings in between 6,3 kV to 36 kV.
- Designed with oil conservator.
- Copper or aluminum conductor as per request.
- Low loss, low temperature rise options.
- Loss optimization for optimum efficient life cycle.
- Special insulation class and coating options.
- Top mounted HV and LV.
- Off load or On load tap changer with various tapping combinations.
- Vacuum resistant tank design with radiators is available.
- Accessory combinations i.e. protection relay, cable box, thermometers, valves are possible.



accessories

NO LOAD TAP CHANGER

A tap changer is a connection point selection mechanism along a power transformer winding that allows regulating output voltage for variable input voltage levels manually.



ON LOAD TAP CHANGER

A tap changer is a connection point selection mechanism along a power transformer winding that allows regulating output voltage for variable input voltage levels automatically.



BUCHHOLZ RELAY

Buchholz relay is a safety device mounted on only transformers with conservator tank. It is used as a protective device sensitive to the effects of dielectric failure, that causes gas accumulation inside the transformer.



VERTICAL PROTECTION RELAY

Vertical protection relay is used for monitoring oil level in hermetically sealed transformers. If the oil level falls under certain level, vertical protection relay operates the relays with contacts on it.



MOISTURE HOLDER

Moisture Holder is used for taking out the moisture of the air that enters the conservator tank. It is only used on transformers with conservator tank.



OIL LEVEL INDICATOR

Oil level indicator is used for monitoring oil level in conservator tank. Oil level indicator is located on the conservator tank.



VERTICAL OIL LEVEL INDICATOR

Oil level indicator is used for monitoring oil level in hermetically sealed tank.



MULTI FUNCTIONAL PROTECTION RELAY

Multi Functional Protection Relay is a safety device for hermetically sealed transformers which combines four different safety functions into a single and compact device. It continuously monitors pressure and temperature as well as gassing or dielectric level decrease inside the transformer tank.



PRESSURE SAFETY VALVE

Pressure safety valve is used for relieve the over pressure in the tank in order to avoid damage of the tank. It is commonly used in hermetically sealed transformers.



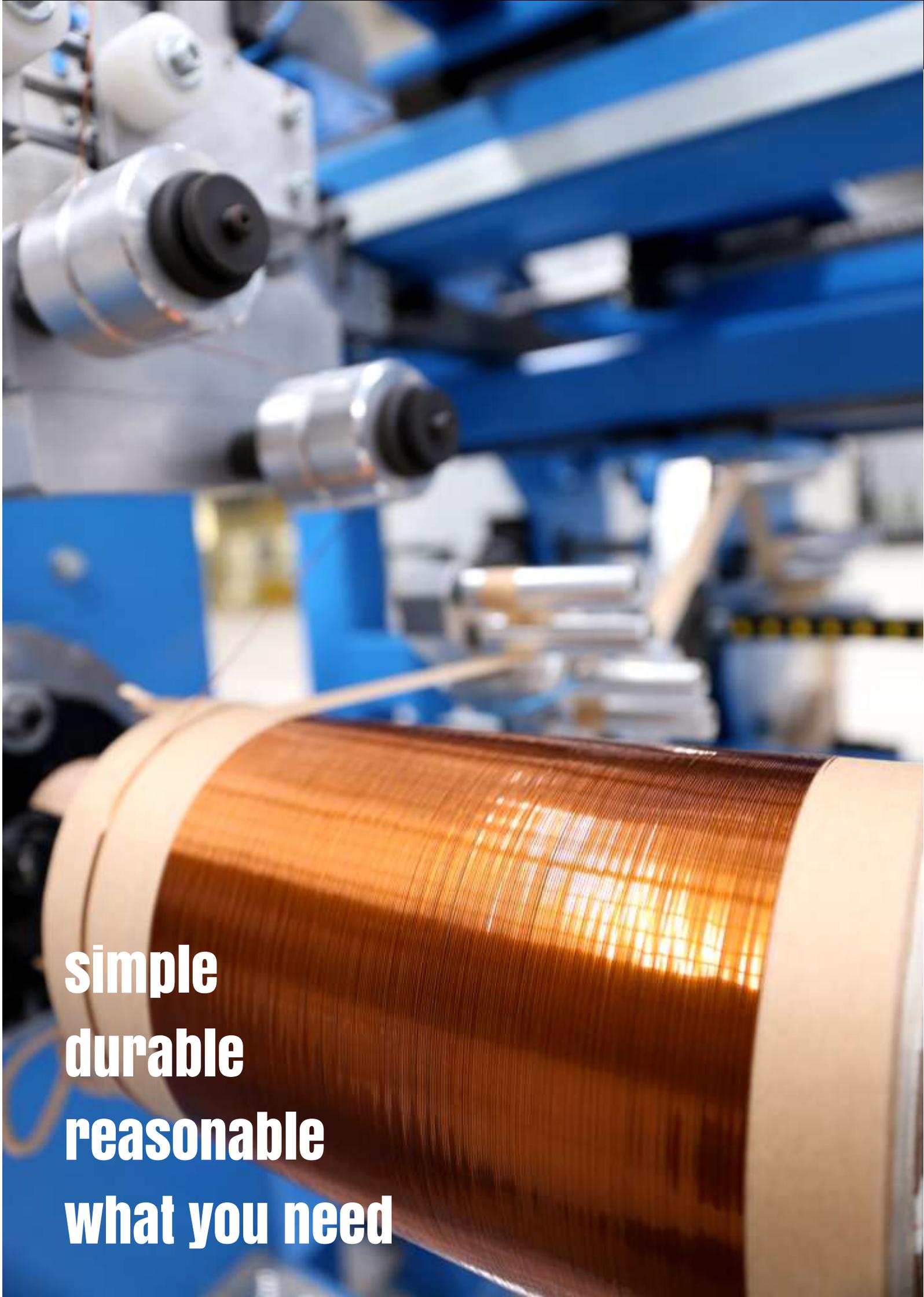
THERMOMETER

Bimetal Thermometers are used for monitoring the oil temperature in transformer. It is equipped with two contacts for tripping and alarm.

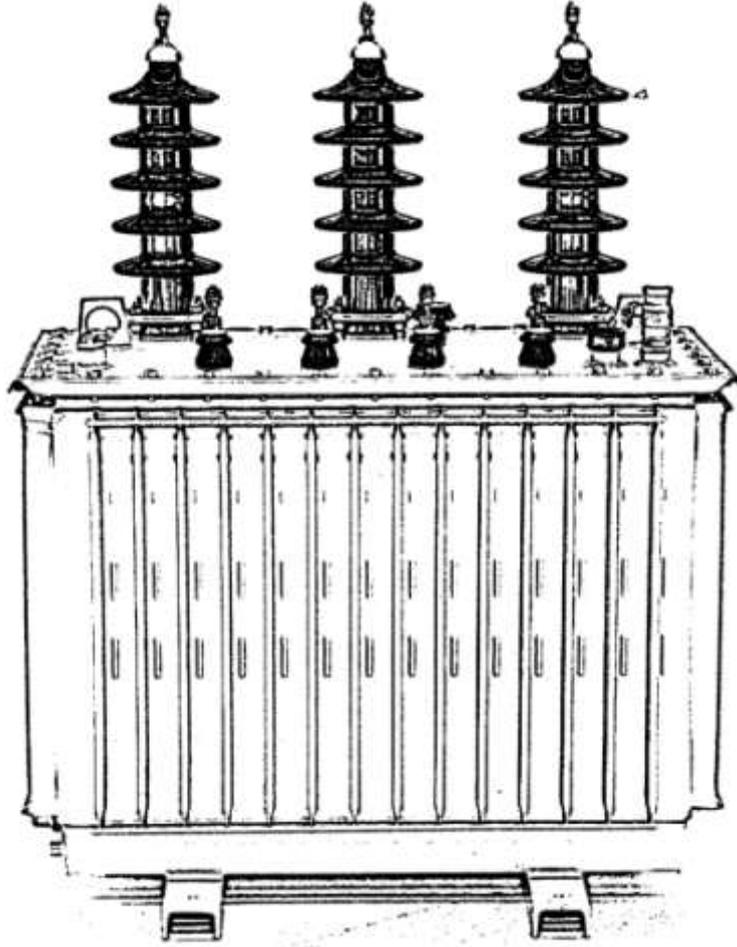


certificates





simple
durable
reasonable
what you need



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