

Complete Solutions for GRIDS BEST TRANSFORMERS



Company Background

- 1966 BALIKESIR ELEKTROMEKANIK SANAYI TESISLERI A.S. is established
- 1969 First Production
- 1975 First production under EBG (Electro Bau AG) License
- 1984 First production of 50 MVA , 154/31.5 kV power transformer
- 1991 First production of 100 MVA , 154/31.5 kV oil immersed power transformer
- 1994 ISO 9001 Certification
- 1995 First successful short-circuit withstand test at International Independent Test Laboratory (CESI) for 50/62.5 MVA , 154/33.6 kV power transformer
- 1996 First successful short-circuit withstand test at International Independent Test Laboratory (CESI) for 100 MVA , 154/33.6 kV power transformer
- 1997 Production of 80/100 MVA, 380 kV single-phase power transformers
- 2003 ISO - EN 14000 Certification
- 2005 First 250 MVA 380 kV autotransformer production, successfully short-circuit withstand tested at Independent International Test Laboratory (KEMA) and Supply to Turkish Electricity Transmission Corporation (TEIAS)
- 2006 Tank manufacturing plant established
- 2009 Second factory with the capacity up to 1000 MVA and 525 kV started production
- 2009 First production of 310 MVA, 395 kV Generator Step-Up Transformer
- 2009 ISO 18001 Certification
- 2009 On-Site Test Laboratories have been accredited according to IEC ISO 17025
- 2010 Acquisition of AEG Genel, EPC Group.

Balıkesir Elektromekanik Sanayi Tesisleri A.Ş.



Company Structure



Power Transformers



Mechanical Production Factory



Dry Type Distribution Transformers



Core Production Factory



Oil Immersed Distribution Transformers



Service Group

The Voice of Our Customers and Business Excellence

BEST Transformers has a well defined continuous improvement process to drive business excellence based on a close cooperation with our customers.

- Listen to the experience of our employees and to learn from our metrics in our processes
- Team Facilitation
- Meeting Management
- Operational Excellence Teams
- Key Account Management for Customers
- Listen to our Customers

We understand that the value of our products and services is measured by the values they create in the business of our Customers.





Power Transformers

Production Range

Generator Step-Up Transformers: 800 MVA, 525 kV

Network (Step-Up & Step Down) Transformers: 1000MVA, 525 kV

Shunt Reactors: 250 MVA, 400 kV

Arc Furnace Transformers: 150 MVA, 34.5 kV



BEST Transformers has supplied power transformers for variety of applications:
HV-MV substations
Hydro Power Plants
Wind Parks
Combined Cycle Power Plants
Thermal Power Plants
Solar Power Plants





Oil Immersed Distribution Transformers

Distribution transformers are the essential parts of electric power systems delivering reliable and safe energy to the consumers.

Mainly mineral oil is utilized in distribution transformers applications. However, BEST Transformers also offers silicone oil which has high fire point above 300C.

BEST Distribution Transformers have being utilised in variety of applications:

- Utility
- Industry
- Special Industry
- Traction
- Wind Parks
- Solar Power Plants





Dry Type Distribution Transformers

BEST Transformers is offering dry type transformers at the following ranges:

- Standard, 50-3150kVA
- Power Transformers, 4MVA-20MVA
- Rectifier Transformers
- Transformers for Marine Use
- Single Phase Transformers
- Earthing Transformers
- Transformers with on-load tap-changer
- Auto Transformers

BEST Transformers offers dry type transformers for several applications

- Rectifiers
- Power Generation
- Marine
- Motor Drive
- Traction
- Unit Substation





Core Production Factory

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

With two GEORG slitting machines and three GEORG cutting machines (540, 640 and 1000 mm), BEST Transformers is able to address the production of all transformer cores from distribution to large power transformers.

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

BEST Transformers apply step-lap stacking technique as a standard. This technique has proven itself as best leading to lower losses and noise levels.





Mechanical Production Factory

BEST Transformers is producing mechanical components required for Power and Distribution transformers in its dedicated factory.

Components Manufactured

- Tanks
- Conservators
- Cable Boxes
- Piping
- Core Fixing Steel

Workshops & Machinery

- 2 Cutting Lines
- 3 Sandblasting Workshops
- 3 Painting Workshops
- State of Art Welding Equipment





Service

In order to have a trouble-free long term operation of transformers, a professional service for assembly, testing, commissioning and maintenance is a crucial parameter.

With more half a century of experience, BEST Transformers is offering services for transformer assembly, site tests, commissioning and maintenance worldwide. Our Service Group is also serving customers for transformer repairs and modernisation.

The group has strong engineering resources based on the experience of BEST Transformers and has state of the art test and assembly equipment.





• 310MVA, 400kV GSU Transformer in Antalya CCPP



• 67MVA, 110kV Al-Haramain



• 250MVA, 380kV Autotransformer - TEİAŞ



• 73MVA, 110kV Jeddah - ICY5

World Wide References

Some of reference customers:

- TEIAS - TURKEY
- SIEMENS - GERMANY
- SCHNEIDER - GERMANY
- SEC - K. SAUDI ARABIA
- DEWA - UAE
- SONELGAZ - ALGERIA
- ONE - MOROC
- ADWEA, U.A.E
- GECOL, LIBYA
- ESB, IRELAND

List of Short Circuit Type Tested Equipment

- 250 MVA, 380 KV
- 125 MVA, 380 KV
- 100 MVA, 154 KV
- 62,5 MVA, 154 KV
- 25 MVA, 33 KV



• 230MVA, 380kV - İÇTAŞ

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