

SURTAS



COMPANY CATALOGUE

Transformers up to 1250 MVA - 765kV



ABOUT SURTAS TRANSFORMER

Surtas Electrical Equipment Industry and Trade Co. was first established at Karaköy/ ISTANBUL in the year 1977. Company Founders ; Suren Tasci , Haygaran Avedis Tasci at year 1999 transferred their rights to Mr. Dogan who had actually positively contributed to the company until that day.

Operating in the field of power electronics Power Electronics Electrical Equipment Industry and Trade Inc. Voltage Regulators, Static Voltage Regulators, On-Line Uninterruptible Power Supplies, cable lug, Battery Chargers and produces transformers. Cnc machining, molding equipment, mercury vapor ballasts, and other electrical products manufacturing, For both domestic and foreign markets.

SURTAS MADE PRODUCTS



Power Transformers up to 1,250 MVA 765 kV

- Grid Transformers
- Auto-Transformers
- Step Up/Down Transformers
- Railway Transformers



Reactors up to 300 MVAr 550 kV

- Shunt Reactors (Fixed or Variable)
- Magnetically Controlled Shunt Reactor
- Furnace Reactors



Special Transformers up to 600 MVA 550 kV

- Arc Furnace Transformers (up to 360MVA, 36kV)
- Phase Shifters
- Rectifier Combination Transformers
- Traction Transformers



Mobile Transformers up to requirements 100 MVA 245 kV

(higher rated power and voltages available depending on the customer trailer specifications.)



Cast Resin Dry Type Transformers up to 40 MVA 72,5 kV

- Distribution and Power Transformers
- Rectifier Transformers
- Earthing Transformers
- Reactor



Oil immersed distribution transformers up to 20 MVA 72,5 kV

- Distribution Transformers
- Rectifier Transformers
- Earthing Transformers

SURTAS MANUFACTURING

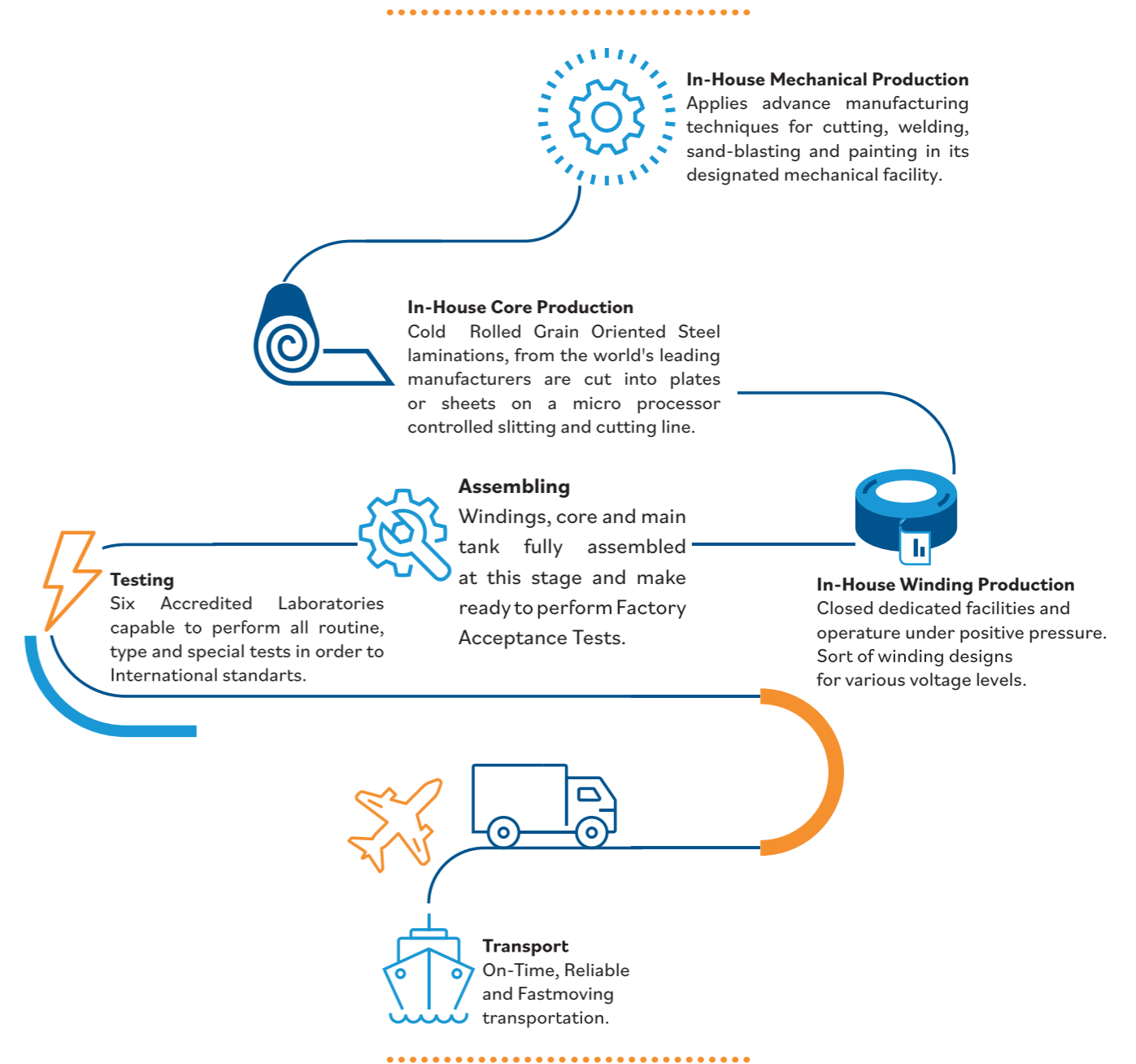


The Definitive Solutions in All Applications

SURTAS Transformers always find the most appropriate solution to the National Utilities in any cases. Efficiency and stability are the major priorities for a grid system of a country. Whether on low voltage or high voltage levels, plus without any limitation in power level up to 1,250 MVA, SURTAS Engineering Team creates definitive solution with the assistance of deep experiences and high engineering skills in compliance with customer requirements.

Op-Ex Manufacturing

SURTAS Transformer is the only capable manufacturer to proceed with inhouse facilities suchas transformer tank production factory manufacturing all related mechanical parts like turrets, conservators and flitch plates, core production factory where the mother coils are slit, cut and stacked together and winding workshop where all types of winding can be produced on the vertical and horizontal machines . These basic steps of manufacturing of all stages in one facility provide a better overview of on time delivery, SURTAS quality level and solution constraint. By the advantage of inhouse manufacturing, SURTAS Transformer has always been in a fully confident position towards their customers.



The 50,000+ MVA annual manufacturing capacity and the support of 1,000+ employee are the one of the major reasons for becoming the biggest national manufacturer. 24 hours/3 shifts continues working time, separated special divisions and harmony between working groups are combined with SURTAS Ethics every day and night.

TESTING

We are one of the manufacturers with extensive testing capacity. Today, we can carry out electrical and functional tests at our fully owned 6 test laboratories in accordance with the requirements of recognised standards such as IEC, IEEE, GOST and NEMA. In addition to routine tests, we also execute specific tests such as temperature rise tests, impulse voltage tests and noise measurements. The capability of our testing laboratories is up to 1,250 MVA and 765 kV.

With today's digitalization requirements, we also undertake online testing via live remote witnessing system where our customers can attend the testing virtually.

When required, short circuit withstand test may also be applied to our transformers at international accredited test laboratories such as KEMA or CESI. Until now, we have an extensive transformer list in different power and voltage levels which are all passed the short circuit withstand tests in above mentioned laboratories. Every different transformer in this list is an ornament for SURTAS Transformers' history and future.

List of Short key Circuit Type Tested Transformers

- 450 MVA, 400 kV - Autotransformer
- 250 MVA, 400 kV - Autotransformer
- 125 MVA, 400 kV
- 100 MVA, 154 kV
- 62,5 MVA, 154 kV
- 25 MVA, 33 kV



SERVICE

We continue to support you and service your transformers after delivery and commissioning with our service team, accessible 24/7 from all around the world. Our service portfolio allows our customers to maximise the return on transformer investment by ensuring a high reliability and efficiency, reducing life cycle costs and ensuring optimized performance.

In addition to installation and commission services, our professionals provide maintenance and repair services for our owned transformers and those of other manufacturers. We aim to play a major role in increasing the service life of our transformers via long term service engagements. We also provide on-site product and technical trainings for our customers.

Our services portfolio includes:

- Erection & Commissioning
- Spare parts
- Maintenance & site service
- Repairment
- Training (on site & factory)
- Improvement of efficiency
- Customer claim evaluation



SUSTAINABILITY

Consider for a moment that children must inherit the world and its environment as we adults leave it for them. The ethical and right thing to do, given the real and present hazards facing our world from climate change, is to get a plan for managing the challenge by accepting it as our own and leave our kids with a sustainable future.



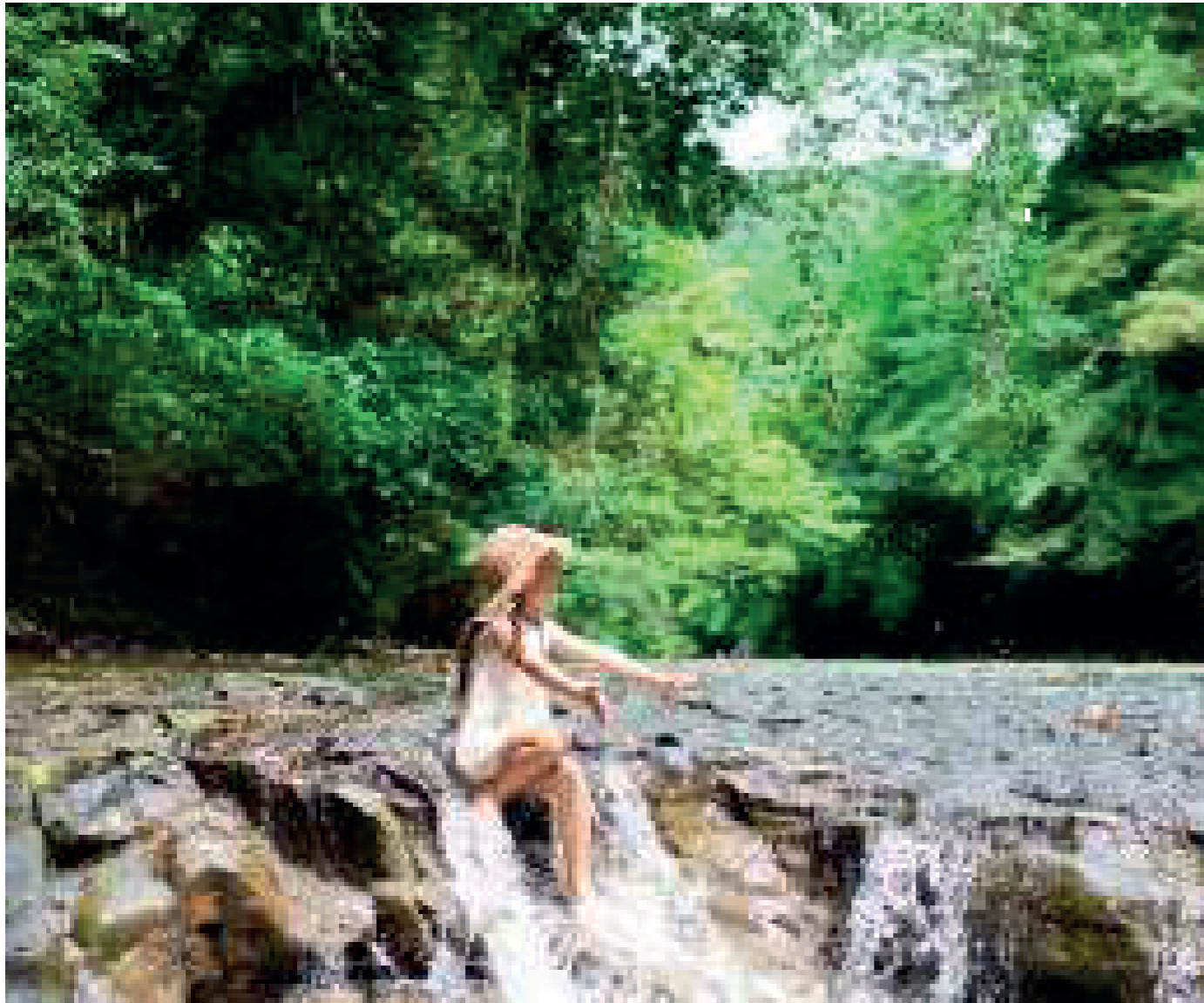
Prioritize energy efficiency and develop a power sector based largely on renewable sources



Secure & Reliable
Energy Supply

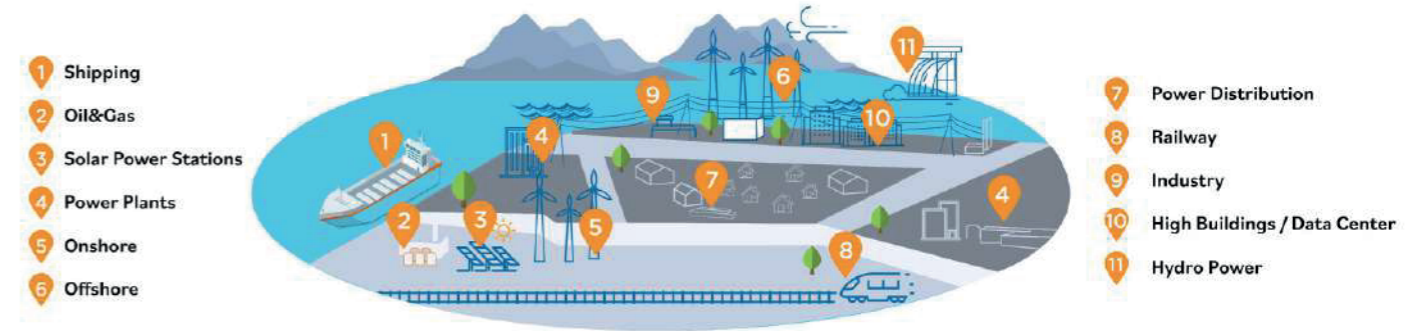


Fully Integrated
Digital Solutions



Interconnect Energy Systems

and better link/integrate renewable words to be separated to the grid



Sustainability is one of our essential corporate values which reflects our responsibility towards people and environment. We manage our economic, social, environmental and ethical codes towards innovative transformer solutions, customer-focused approach, employment responsibility and environmental protection. Therefore, we commit ourselves via 3 main pillars for a better world.

Global Compact is a call to companies to align strategies and operations with universal principles on human rights, labour, environment and anti-corruption, and take actions that advance societal goals. In 2019, we have signed the United Nations Global Compact which is shaping our vision for the future with its ten principles regarding human rights, working conditions, environment and fight against corruption.

Eco-Friendly Manufacturing

We seek to minimize our environmental footprint by applying environmental management systems. In order to support global climate change and attain low emission rates, we apply recycling at factory, we use energy efficiency solutions to lower the electricity consumption and we develop innovative products to reduce environmental impacts of the grid.

Corporate Social Responsibility

We support Türk Eğitim Vakfı projects to ensure equal educational opportunities for students with limited financial capacity. Turkish Education Foundation (Türk Eğitim Vakfı, TEV), a non-governmental organization run for the benefit of the public, founded with the aim of ensuring that successful but financially disadvantaged young people have access to an education.



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