

S.T.E. Strumenti Trasformatori Elettrici S.r.l.

Quality. Customization. Value.

S.T.E. Company Presentation

S.T.E. Strumenti Trasformatori Elettrici S.r.l.

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The company

S.T.E. - with offices and manufacturing site located in an area of 3,000 sqm, near Milan, in the most productive region in Italy - is a dynamic company, that constantly invests a meaningful part of its income and its energy in the research of **high-tech products** and operates with processes which associate the Customer satisfaction to the value and the competitiveness of its supply.







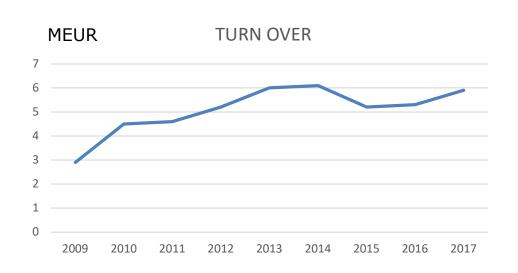




History

S.T.E. was established in **1981** on the base of the technical competences, the passion and the entrepreneurial spirit of Mr. Adelio Romanenghi, the current General Manager. Over the time, thanks also to the precious contribution of a qualified and motivated staff of collaborators, the company has grown, finding its specialization in the design and manufacture of LV and MV Instrument Transformers and Transducers for indoor and outdoor installation, which have their appropriate application in the **Electric Power Generation, Transmission and Distribution and in the Railway sector**.

The turnover of the last five years confirms the trend of **steady growth** which has characterized STE since its foundation.





Research and development

One of the strenghts of S.T.E. is the constant and direct dialogue between its **R&D** department and the **customer**, to ensure always the **best solution** in the **quickest time**. R&D is located in the same plant of the production department, so every modification and customization becomes **instantly effective**.









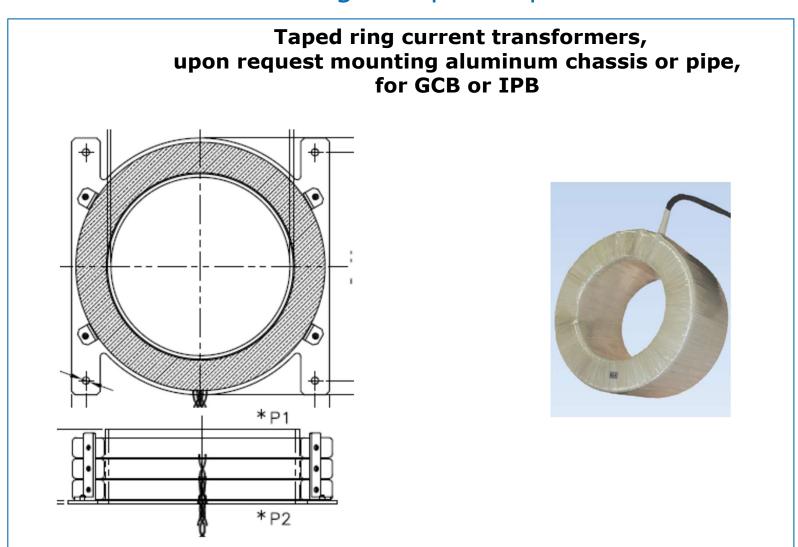
Products overview: range for power plants







Products overview: range for power plants

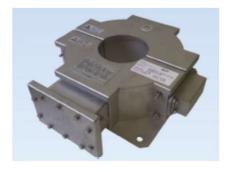




Products overview: range for substations



Outdoor split-core ring current transformers for HV bushings and cable







Products overview: range for substations







Products overview:range for HV power transformers







Products overview: range for MV switchgears

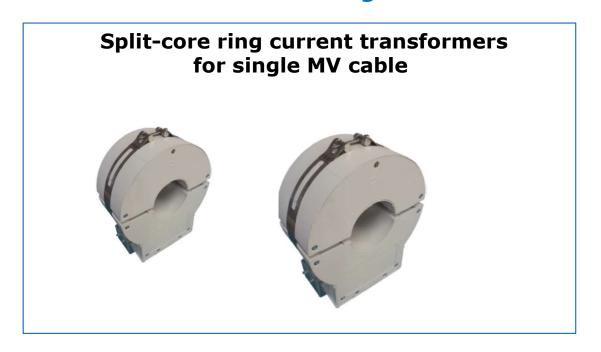








Products overview: range for MV switchgears



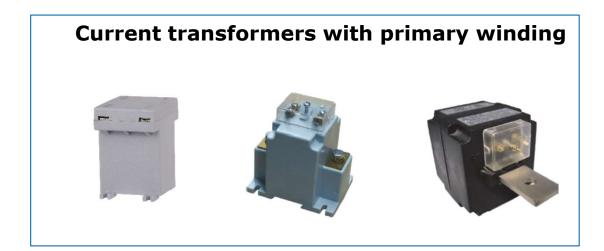




Split-core ring current transformers for earth fault protection (3 cables)



Products overview: range for low voltage switchgears

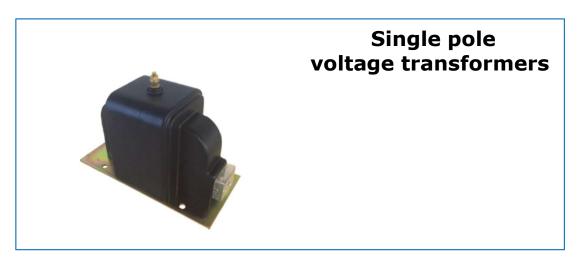


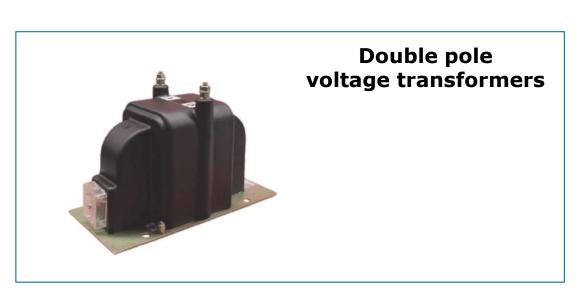






Products overview: range for 7,2 kV switchgears



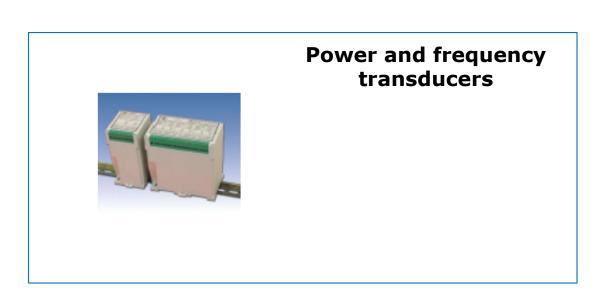


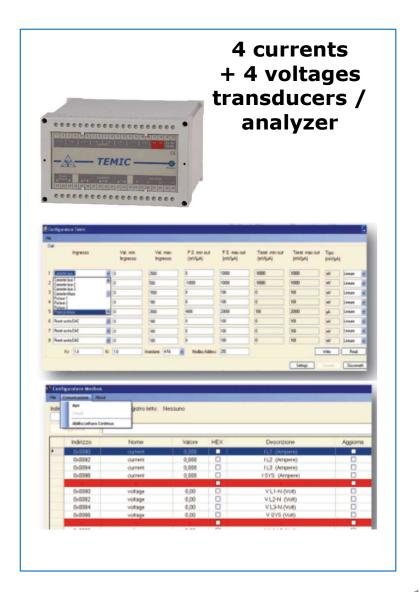




Products overview: power quality analyzer / transducers









Products overview: range for railway / on board 3kV DC









Products overview: range for railway / on board 25kV 50Hz or 15kV 16,7Hz









Products overview: range for railway / substation 3 kV DC



Voltmeter relay for measure and control

Silicone resin insulated

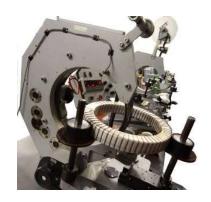


- Sensor self supplied by catenary
 - Connection by optical fiber



Production

A qualified staff works efficiently in the assembly department, ensuring compliance with quality standards and delivery of the supply on time.





Winding department







Production

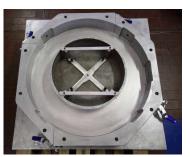
Casting department





casting plants







molds





casings



Test department

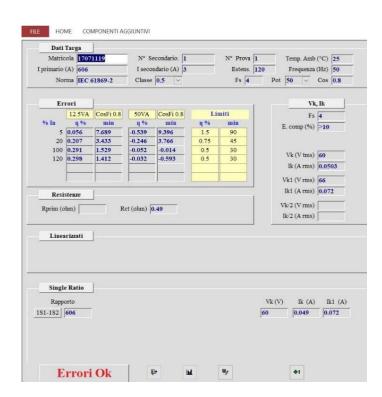
100% of our products are **tested before shipping**. A part of the testing activity is dedicated to the check of incoming materials. All the instruments used for the tests are periodically calibrated by external certified laboratories.

Automatic bridges for error measuring





Automatic software to carry out and issue of test report



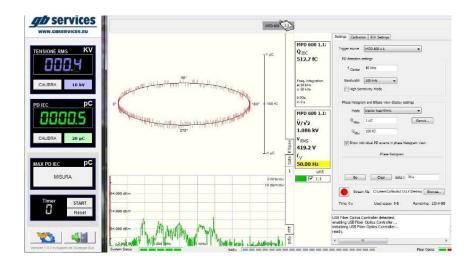


Test department

Generator for magnetization curve test



Partial discharge measures







Test department – high voltage room

Impulse generator - up to 400 kV



High voltage transformer – up to 150 kV



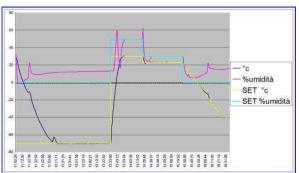


Test department – type tests

Inside the plant there are also the equipments for most of the **type tests** requested by regulations. For any other test we cooperate with internationally known certified laboratories.

Climatic chamber for the accelerated ageing test through automated duty cycles





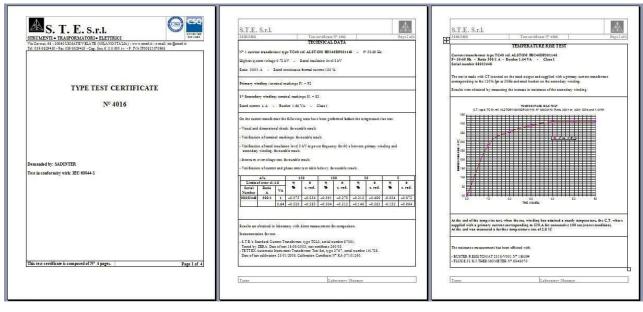
Mechanical and vibration test in external laboratory



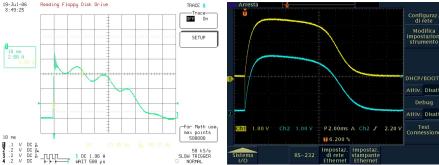


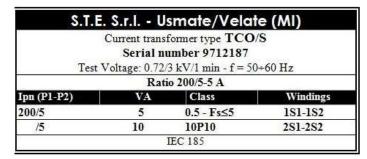
Test reports

Test report and magnetization curve – customizable on customer needs



IEC 61869 IEC 60044 EN 50463 ANSI IEEE C57.13 CSA CAN3-C13-M83 NBR 06855 AS 1675





Rating plate



Quality Management System

S.T.E. has implemented and maintains a Quality Management System which fully fulfills the standard ISO 9001:2015





Our choice of quality:

ISO 9001:2015 certificated by IMQ - CISQ, member IQNET



International qualifications

S.T.E. products are designed and manufactured in compliance with the strictest **international standards** and have been certified and/or accredited by main Institutes of Metrology, Energy and Railways Companies and Operators

Some of our qualifications and certifications:

- CAF (Spanish train manufacturer) Qualification
- BOMBARDIER ITALY (Train manufacturer) Qualification
- ELIA (Belgic Electric Company) Qualification
- MICROELETTRICA SCIENTIFICA KNORR BREMSE (train system integrator) Qualification
- RFI (Italian Railway Company) Certification
- SAUDI ELECTRIC COMPANY Certification
- SECHERON ITALY (train system integrator) Qualification
- TERNA / ENEL (Italian Electric Company) Certification
- TENNET (Dutch Electric Company) Qualification

Enel Distribuzione	DISPOSITIVI DI PROTEZIONE GENERALE PER CLIENTI MT DI ENEL DISTRIBUZIONE				
TATAT VERIFICATI ASSOCIABILI A TUTTE LE PROTEZIONI GENERALI DICHIARATE CONFORMI DK (ch. DK\$60) \$6.23 coluzione 3)					
COSTRUTTORE	MODELLO	RAPPORTO	PRESTAZIONE [VA]	UTILIZZO	NOTE
75					
STE Set.	TCO/DK-I	100/1	2	TAT	







Reference list:























































