



world of transformers

WORLD OF TRANSFORMERS



WHO WE ARE

TMC TRANSFORMERS IS A GLOBAL COMPANY ACTIVE IN THE MANUFACTURE OF MEDIUM AND LOW VOLTAGE TRANSFORMERS AND REACTORS, BOTH CAST RESIN AND VPI.



world of transformers

TMC Transformers SpA puts together a carefully selected group of engineers and technicians with vast experience in the design and manufacture of distribution and special transformers: two different souls combined together under a single roof, to offer customers the most suitable technology and service. TMC focuses on dry type transformers and reactors for all the applications worldwide.

KEY FIGURES



30.000

TRANSFORMERS
MANUFACTURED AND SOLD

30

YEARS
OF EXPERIENCE

37.000+

SQ.M PRODUCTION
FACILITY

TMC IN THE WORLD



- HEADQUARTERS and PRODUCTION PLANTS
- SALES OFFICE
- PARTNER

OUR TECHNOLOGY



CAST RESIN

Transformers up to 25MVA and up to 52kV in class F or class H insulation systems

Enclosures

IP: from IP21 to IP67

NEMA: from NEMA1 to NEMA13

Cooling

AN up to AFWF



VPI MEDIUM VOLTAGE

Transformers & reactors with power up to 25MVA and voltages up to class 36 kV

VPI LOW VOLTAGE

Transformers & reactors up to 10MVA

Enclosures

IP: from IP21 to IP67

NEMA: from NEMA1 to NEMA13

Cooling

AN up to AFWF



ENCLOSURES & COOLING TECHNOLOGY

- Protective metal enclosures for indoor and outdoor applications
IP: from IP21 to IP67
NEMA: from NEMA1 to NEMA13
- Direct water cooling
- Indirect water cooling
- AFWF (air-water cooling)
- AFAF (air to air heat exchanger)

Distribution Transformers: efficiency according to DOE2016 and NRcan standard

AFTER SALES

OBJECTIVE

OPTIMIZATION
OF THE LIFECYCLE
COST OF THE
TRANSFORMERS

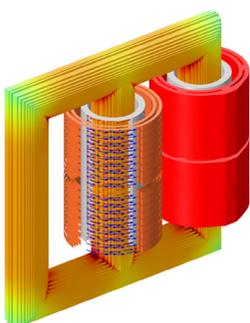
FULLY SUPPORT ON

- Unscheduled maintenance / repair / parts replacement
- Power, cooling, degree of protection and upgrades
- Reconditioning of the transformers and spares

SPARE PARTS
PROGRAM

ORGANIZATION
OF THE SCHEDULED
MAINTENANCE

RESEARCH & DEVELOPMENT



R&D is at the heart of TMC providing substantial benefits for both our team and our customers. Our R&D work has two prime targets:

- access to consultants to ensure customers that their product requirements always match or exceed their developing markets;
- collaboration with Supply Chain to ensure that as a 'team' we develop and utilize the most innovative materials available in the most cost-effective way.

TMC

WORLD OF TRANSFORMERS



MARINE & OFFSHORE



E-MOBILITY



OIL & GAS



RAILWAYS



DATA CENTRE



**POWERGEN
RENEWABLE ENERGY**

■ MARINE & OFFSHORE

- Main propulsion, bow thruster & service
- Multi-pulse harmonic cancellation
- MV and LV drive systems
- IP23, IP44, IP54
- Multi-pulse drilling drives systems

■ OIL & GAS

- Ratings $\leq 25\text{MVA}$
- MV insulation system $\leq 52\text{kV}$
- H-ART 180°C technology
- Environmental, climate & fire behavior classes E4, C5 & F1
- Enclosure up to NEMA12 degree of protection
- Painting for high corrosion area C5H or even CX with stainless steel
- Suitable for certification for hazardous area IEC Ex (ATEX) & NEC Ex

■ DATA CENTRE

- 'K' factor and high harmonic designs
- High efficiency
- Low inrush designs

■ E-MOBILITY

- Full range of MV and LV solutions
- Special multi-winding designs
- Dedicated study to fit into special dimensions

■ RAILWAYS

- MV track side supply
- Suitable for specific traction duty cycles (e.g. in accordance with IEEE 1653.1)
- LV Aux on-board power supplies
- Protected from water/rain/brake dust

■ POWERGEN/RENEWABLE ENERGY

- PV generation to MV network
- High efficiency designs
- Dual secondary windings
- Custom designed for restricted installation constraints

SUSTAINABILITY POLICIES



TMC STRIVES DAILY TO OPTIMIZE PRODUCTION PROCESSES IN ORDER TO REDUCE WASTE AND CREATE PRODUCTS THAT HAVE LOW EMISSIONS AND OVERALL IMPACT ON THE ENVIRONMENT. THE CONTINUOUS RESEARCH FOR ECO-FRIENDLY ALTERNATIVE MATERIALS AND THE USE OF ENERGY FROM RENEWABLE SOURCES ARE JUST SOME OF THE GOALS OF OUR PROCESS ENGINEERING.

■ BATTERY STORAGE

- Two, three or four winding transformers
- Dedicate FEA to study special cases
- Low losses

■ BUILDING & INFRASTRUCTURE

- Major project construction: hospitals, educational facilities, stadiums, exhibition centres, bridges and tunnels, and communication systems

■ INDUSTRY

- High efficiency 'green' industrial systems
- Multi-pulse transformers for VSDs
- Heavy current for steel production
- Transformers to feed, control and operate industrial electric power machinery

OUR CERTIFICATIONS



TMC Transformers is a
UL Certificated company



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TMC designs distribution & special application transformers, against specific customer requirements, using technical specifications and applicable standards.