



## WORLD OF TRANSFORMERS



# WHO WE ARE

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



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 to offer customers the most suitable technology for all the applications worldwide.

## KEY FIGURES



**50.000**

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

Dry-type transformers up to 25MVA with network voltages up to 52kV and insulation systems in class F or class H, suitable for distribution and special applications.



## LOW VOLTAGE VPI TRANSFORMERS

Dry-type transformers and reactors up to 10MVA with network voltages up to 1.1kV



## ENCLOSURES & COOLING

- Protection boxes for outdoor and indoor installations
- IP: from **IP21** to **IP67**
- NEMA: from **NEMA1** to **NEMA13**
- **Direct water** cooling
- **Indirect water** cooling
- **AFWF** (air-water cooling)
- **AFAF** (air-air heat exchanger)

# AFTER SALES

## COMPLETE SUPPORT 24/7

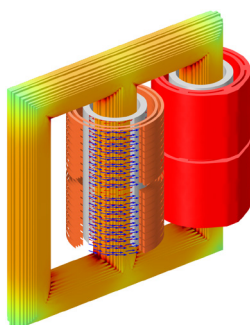
- Maintenance / Repair / Replacement of unplanned parts
- Certified team for direct onsite or remote assistance

OPTIMIZATION  
OF THE LIFECYCLE  
COST OF THE  
TRANSFORMERS

SPARE PARTS  
PROGRAM

ORGANIZATION  
OF THE SCHEDULED  
MAINTENANCE

# RESEARCH & DEVELOPMENT



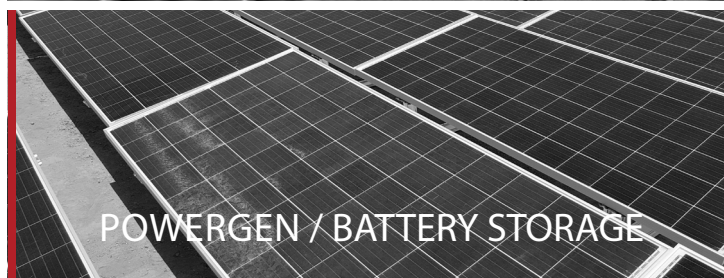
The R&D Department is at the core of TMC, bringing long-term benefits to our customers.

- Consulting to analyze needs and challenges
- Collaboration to select increasingly high-performance materials
- Support for the development of innovative solutions for new markets



# TMC

## WORLD OF TRANSFORMERS



### ■ MARINE & OFFSHORE

- Custom-designed MV / LV dry-type transformers according to specific project requirements
- Protection boxes IP23, IP44, IP54
- AFWF cooling systems to dissipate losses

### ■ OIL & GAS

- MV / LV dry-type transformers approved by maritime certification bodies
- Environmental, climatic, and fire protection classes E4, C3 & F1
- Protection boxes up to IP67
- Anti-corrosion painting C5H – or stainless steel plating
- Product certification available for hazardous areas IEC Ex (ATEX) and NEC EX

### ■ DATA CENTRE

- Compact design
- 24/7 operation
- Variety of accessories (snubbers, surge arresters, bearings, etc.)
- FEA analysis for both electrical and mechanical parts

### ■ E-MOBILITY

- Complete range of MV and LV solutions
- Special designs with multi-winding
- Flexible design and engineering to accommodate special sizes

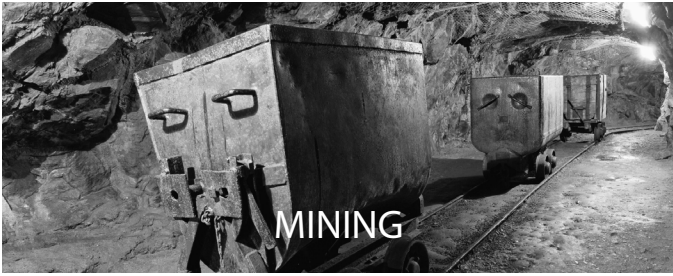
### ■ RAILWAYS

- Transformers for specific traction cycles (e.g. IEEE 1653.1)
- H-ART 180° technology to limit insulation degradation and improve transformer performance
- Short-circuit testing for systems with 12-pulse rectifiers and power ratings of 3880, 4400 and 7300kVA

### ■ POWERGEN / BATTERY STORAGE

- High-efficiency design
- Dual secondary windings
- Custom-designed to meet 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 ONGOING RESEARCH INTO ECO-FRIENDLY ALTERNATIVE MATERIALS AND THE USE OF ENERGY FROM RENEWABLE SOURCES ARE JUST SOME OF THE GOALS OF OUR PROCESS ENGINEERING.

## ■ MINING

- Flexible maintenance
- High resistance to extreme environmental conditions (dust, high or low temperatures, etc.)
- Transformers designed to meet all international standards (IEC, IEEE, ANSI, CSA, UL)

## ■ BUILDING & INFRASTRUCTURE

- Construction projects: hospitals, plants, stadiums, exhibition centers, bridges, tunnels, and communication systems
- Self-healing insulation system, low wiring costs and losses
- High reliability and low maintenance

## ■ INDUSTRY

- Multi-pulse transformers for VSDs
- Transformers for the power supply, control, and operation of industrial electric machines
- Robust construction features

## OUR CERTIFICATIONS



TMC Transformers is a  
UL Certificated company




TMC Transformers USA Inc.  
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Germany

TMC Transformers Group S.A  
Lungo Tresa, 30  
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Switzerland



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