



## **Company Overview**

# TMC Transformers SpA | Busto Arsizio (VA) - Italy



# TMC Transformers SpA | Busto Arsizio (VA) - Italy

- 2001, May Start-up of TMC Italia S.p.A. transformers' production
- 2009, March Transfer into new HQ of total 23.000sqm in Busto Arsizio (VA)
- 2017, August Acquisition of TMC Italia S.p.A. by **Next Technology Group**  
(NTG Holding Company controlled by Palladini family)
- Acquisition included:**
- Production facilities of total 23.000 sqm located in Busto Arsizio (VA), Italy
  - Technical designs & Client data-base
  - Materials/ Stock
  - Trademark
- 2017, October Re-branding: **TMC Transformers SpA**
- 2017, October 30<sup>th</sup> Delivery of the 1<sup>st</sup> manufactured unit of **TMC Transformers SpA**



# TMC Transformers SpA | Busto Arsizio (VA) - Italy



## A Single Group, Many Different Skills

[www.nexttechnologygroup.com](http://www.nexttechnologygroup.com)

Process Automation Sorting Systems

Software Development – Production & Supply Chain Management

Product Modeller and Configurator

Supply Chain Solutions

Transformer & Inductor Manufacturer



# Dry type transformers & inductors

## Next Technology Group – TMC Target

To develop the existing transformer business, reach out to previously untapped markets for TMC and offer a range of products and services to support both new and existing customers.

*“Cover diverse applications from power distribution to converter applications, railway rolling stock to renewable energy”*

*“Involve a range of markets from marine & offshore and oil and gas production, wind and solar energy systems”*

*“We are proud to offer to our customers our technological strengths and engineering expertise to develop opportunities for mutual business growth and market expansion”*

# Dry type transformers | MV casting area



## HV Foil Winding Technology

- Aluminium or Copper Conductors
- 100% In-house Manufactured by TMC
- 7 x High Speed 'Tuboly' Winding Machines

## Provides

- Environmental Protection
- Excellent Dielectric Withstand
- High Short Circuit Withstand Strength

# Dry type transformers & inductors | LV winding area

## LV Foil Winding Technology

Aluminium or Copper conductors

- 5 x LV Foil Winding Machines
- Existing Vacuum Impregnation (VI) System
- Introduction of Vacuum/  
Pressure Impregnation (VPI)

## Provides

- Environmental Protection
- High Short Circuit Withstand Strength
- Optimum Thermal Distribution in Coils





# Dry type transformers & inductors

## Casting Plant & Factory



### Modern Vacuum Casting Plant

- Twin Vacuum Cast Autoclaves
- 7 x Curing Ovens
- Casting Capability – 80 x HV Coils/ Day



### Production Facility

- Lifting Capacity 20T
- 7 x HV Foil Winding Machine
- 5 x LV Foil Winding Machine



# Dry type transformers & inductors

## Test Laboratory



- **Routine Testing** - IEC/ International and Contract Requirements
- **Type Testing** – Impulse Withstand and Temperature Rise
- **Special Testing** - Environmental (Climatic Chamber), Noise (Anechoic Chamber)

# Dry type transformers & inductors

**Enviromental | Climatic | Flamability**

## Resistance to Condensation & Pollution

**E2** Heavy Pollution, Frequent Condensation



## Resistance to Thermal Shock

**C2** Thermal Shock Test from -25°C



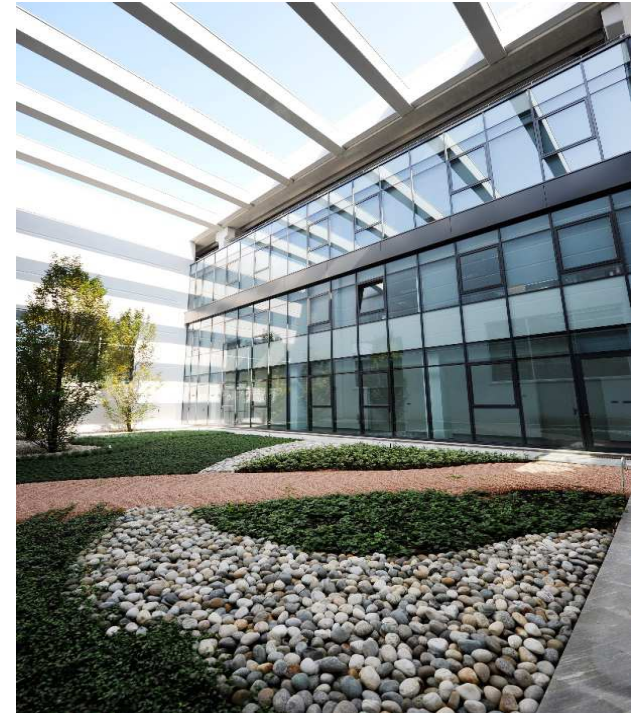
## Resistance to Flamability

**F1** No significant contribution to thermal energy;  
No dangerous emission of toxic substances



# Dry type transformers & inductors

## Offices & Factory



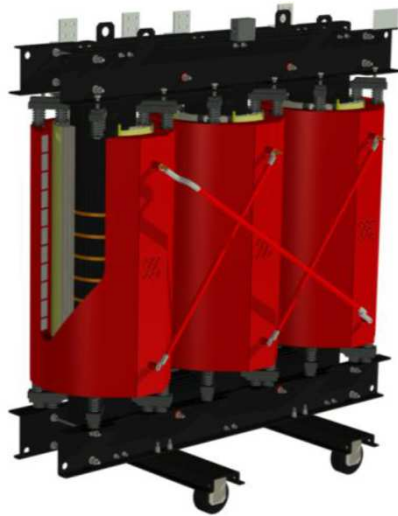
### Modern Offices

- Presentation Facilities for 50 people
- Client Meetings/ Factory Tours



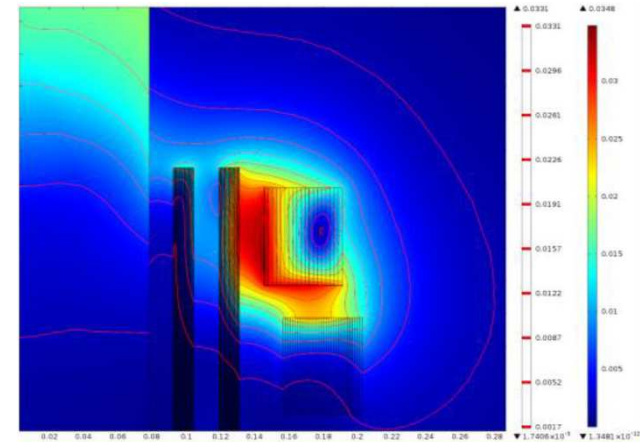
# Dry type transformers & inductors

**Engineering | Technical Expertise**

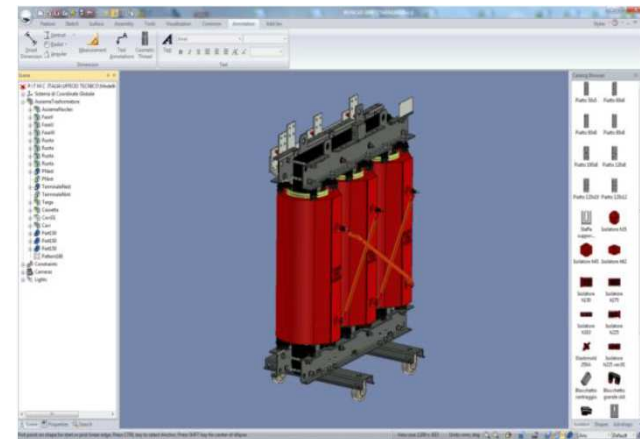


Product  
Analysis

Finite Element  
(FI) Tools



Solidworks  
3D CAD



# Dry type transformers & inductors



## **TMC Existing Markets** **Distribution Applications**

- Hospitals
- Airports
- Shopping Centres
- Public Buildings
- Stadiums
- Data Centres



## **TMC New Markets** **Special Applications**

- Rail & Underground
  - Marine
- Oil&Gas Production
  - Mining
- Wind and Solar Power
- Applications with Variable Speed Drives (VSD)
- Applications with Rectifiers

# Dry type transformers & inductors

## Off-shore

- Drilling Transformers
- Distribution Transformers
- Propulsion Transformers
- Starting Motors
- Inductors
- Cooling ANAF/ AFWF



Static, Mobile (FPSO) and Semi-Submersible Platforms



# Dry type transformers & inductors

## Marine

- MV & LV Distribution Transformers
- Propulsion Transformers
- Starting Motors
- Inductors
- Cooling ANAF/ AFWF



Marine Electrical Propulsion Systems

# Dry type transformers & inductors

## Infrastructure

- Distribution Transformers
- 'K' Factor (non-linear load) Transformers
- Traction Transformers
- Inductors
- Cooling ANAF/ AFWF



# Dry type transformers & inductors

## Power Plants

- Excitation Transformers
- Distribution Transformers





# Dry type transformers & inductors

## Renewable Energy

- LV&MV Iron Cored Inductors
- LV&MV Air Cored Inductors
- Water Cooled Inductors & Transformers



# Dry type transformers & inductors

## Power Electronics





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