Termomeccanica Group
Tradition, Technology & Innovation

Termomeccanica was established in 1912 in La Spezia as “Cerpelli & C.” and later became a stock company in the 1930s, taking the name of “Termomeccanica Italiana S.p.A.”. In January 1995, further to the dissolution of EFIM, the state-owned group it belonged to, the activities and shares of Termomeccanica Italiana S.p.A. were transferred to privately-owned and -managed Termomeccanica S.p.A. with the aim to continue the company’s strong heritage in the manufacturing and turn-key plants sectors.

Today, Termomeccanica is an Italian industrial Group which is amongst the main players of both the Environmental and Mechanical sectors. The Group, domestic leader in the manufacturing of large industrial pumps and in environmental turn-key plant projects, designs, develops and manages cutting edge technological solutions.

Termomeccanica carries out its various business activities in Italy and abroad through its operational companies, each specialized in one of the Group’s key market:

TM.P. S.p.A. Termomeccanica Pompe offers engineered pumps & global service solutions for the Power Generation, Desalination, Water Transmission and Oil&Gas sectors.

TM.I.C. Srl Termomeccanica Industrial Compressors offers air and gas compressing solutions for Industrial applications.

TM.E. S.p.A. Termomeccanica Ecologia offers turnkey plant solutions for Energy from Waste Generation & Technological Water Treatment.
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Pumps & Global Service Solutions
TM.P. The unavoidable Pump & Service partner for your plants

TM.P. S.p.A. - Termomeccanica Pompe, a pump designer by tradition whose history dates back as far as 1912, ranks today amongst the leading manufacturers and service providers of engineered centrifugal pumps solutions. Our fields of applications range from Desalination, Power Generation, Water Handling to Oil & Gas and Heavy Industry. The entire company revolves around developing and providing solutions tailored to our Customers (EPC Contractors) & End Users projects requirements, whether they be related to products or after-sales services. During the course of its long history, the Company has achieved a key position in the various reference markets it operates in and, today, TM.P.’s pumps are running in major plants all over the world at full end-user’s satisfaction, as numerous certificates can prove.

Key Facts & Figures
A century of expertise.
Over 95,000 rotating machines manufactured and supplied.
Hundreds of plants equipped & serviced in over 50 countries.

Research & Development
For more than a decade, TM.P. has been making important investments in technological & quality improvement of both products and manufacturing facilities. Furthermore, dedicated Research programs on new hydraulics and materials structural analysis have been carried out by Termomeccanica’s R&D Department in cooperation with major Italian Universities.
Production Facilities
Quality & EHSMS
Production & Testing Facilities

Production Facilities

Termomeccanica Pompe’s head office and production site cover a total area of 77,400 m², including 30,000 m² covered facilities. Here below are reported a few key figures related to TM.P.’s Production Facilities:

- Workshop area: 20,000 m²
- Test centre area: 4,000 m²
- Warehouse area: 4,500 m²
- Bridge crane capacity: up to 50 Tons
- Welding area: 100 m²
- Sand blasting area: 250 m²
- Painting area: 250 m²
- NDT test facilities

TM.P.’s workshop main CNC machining facilities

- 6 Boring machines
- 5 Vertical lathes
- 3 Horizontal lathes
- 1 Machining center

Test Center

TM.P.’s Test Centre is a unique structure allowing the testing, in real conditions, of all the pumps manufactured. The testing facilities cover a total area of 4,000 m² and allow to perform:

- Full scale performance tests on 100% of the pumps manufactured;
- Contractual model tests;
- Validation of new hydraulics for product development.

The Test Centre is equipped with 7 test loops which main features are:

- Maximum test capacity: 65,000 m³/h
- Maximum test power for horizontal pumps: up to 18 MW at 50 Hz and 4 MW at 60 Hz
- Closed circuit test installation for high pressure and high temperature up to 200°C
- Oil&Gas pumps: closed circuit test installation for high temperature up to 350°C

Each test session is conducted from the control room which is equipped with a remote control system using digital transducers and converters that allow to transfer and collect data from the test beds.
Quality Management System

TM.P.’s Quality System is in accordance with the requirements of the **UNI EN ISO 9001 standards, Edition 2015.**

TM.P.’s ISO 9001 certification was first issued by Lloyd’s Register Quality Assurance on February 8th, 1996. The Quality System consists of an organizing structure, allocating resources, defining responsibilities and operating procedures for the fulfillment of quality management standards. Such structure is described in the following company documents, which determine the rules of the System:

- Company’s Quality Manual
- Procedures
- Operative Instructions
- Technical Standards

TM.P.’s Quality Management System was set to develop systematic, transparent management, with the view to continuously improve the Company’s performance, taking into consideration the requirements of both internal and external customers.

Environmental and Health & Safety Management System


TM.P.’s ISO 14001 certification was first issued by Lloyd’s Register Quality Assurance on August 3rd, 2007.

The OHSAS18001 certification (now ISO 45001) was first issued by Lloyd’s Register Quality Assurance on August 1st, 2011.

Termomeccanica Group and Termomeccanica Pompe’s Management consider the new Safety Environment Management System an essential requisite to assure and reinforce their position on the market.
Water Transmission
The history of Termomeccanica is closely linked to the handling and transmission of medium and large masses of water. Today, thousands of TM.P pumps are operating all over the world in hundreds of Irrigation, Land Reclamation, Potable Water and Water Treatment plants.

Having dedicated itself to product innovation and technological improvement, Termomeccanica pumps are, both from a design and a construction point of view, of unparallel performance, guaranteeing full customer satisfaction.

Key TM.P. Facts & Figures in Water Transmission over the last 30 years

- The total installed power of medium-and large-sized pumps supplied amounts to 580 MW (from 100 kW to 10,000 kW)
- Total number of pumps supplied: 2,800
- The pumps of the World’s largest pumping station are Termomeccanica’s Sardar Sarovar Pumping Station - Gujarat State - India

5 pumping stations
26 concrete volume vertical pumps
5,400.00 hectares of total irrigation area
1,476,000 m³/h installed capacity for irrigation & drinking water
4,620 towns & villages served
35 milioni di metri cubi di acqua pompata al giorno

4.620 città e villaggi serviti dall’acqua potabile

5.400.000 ettari di superficie irrigata

I numeri dell’impegno di Termomeccanica Pompe

Gujarat • India

Il 20 marzo 2007 è stata inaugurata la prima stazione di pompaggio del più grande schema irriguo del mondo, 26 pompe verticali con volata in ceramica per 35 milioni di metri cubi di acqua pompata ogni giorno.

In tempi di emergenza idrica Termomeccanica si distingue per il carattere sociale e umanitario dei suoi progetti.

Article published in the Italian press on the occasion of the inauguration of the Sardar Sarovar pumping station
Power Generation
Termomeccanica Pompe has been designing and supplying engineered pumps for the Power Generation market since the 1950s, quickly establishing itself as a referenced leading manufacturer in Italy. The experience acquired worldwide and the necessity to compete in a more and more demanding market have led to constant product innovation and technological improvement.

As a result, Termomeccanica Pompe has reached today a well-established position in Power Generation, not only in its domestic market but also in Europe as well as the Middle East & Gulf areas. Furthermore, the company’s presence in the Asian, African and American markets is constantly growing. Termomeccanica pumps cover all main and auxiliary services not only in Conventional but also in Geothermal and Nuclear power stations, namely:

### Traditional Power Plant
- HP boiler feed water
- LP boiler feed water
- Condensate extraction
- Circulating cooling
- Close circuit cooling

### Geothermal Power Plant
- Condensate extraction
- Close circuit cooling

### Nuclear Power Plant
- HP boiler feed water
- LP boiler feed water
- Condensate extraction
- Circulating cooling
- Close circuit cooling

### Combined Cycle Power Plant
- HP boiler feed water
- LP boiler feed water
- Condensate extraction
- Circulating cooling
- Close circuit cooling

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**Key TM.P. Facts & Figures in Power Generation over the last 30 years**

- The total installed power of medium- and large-sized pumps supplied amounts to 1,000MW (from 100 kW to 30000 kW)
- Total number of pumps supplied: more than 2,500
- Total number of plants equipped: over 100
Circulating Cooling Water Pump
Nubaria Power Plant (3 x 750MW) - Egypt

Main Boiler Feed Water Pump
Montalto di Castro Power Plant (4 x 660MW) Italy
Desalination
Termomeccanica Pompe entered the Desalination market in the early 70’s, designing and manufacturing pumps for both Sea Water and Process services. Over the last 40 years, TMP has installed pumps in most of the key Desalination plants of the Middle-East & Gulf areas, thus acquiring an unparalleled experience in this field. As a result, the Company ranks today amongst the world-leading manufacturers of Desalination pumps, offering products & services up to the toughest technical requirements.

Termomeccanica pumps cover all process and water intake services related to the various Desalination technologies, such as MSF, MED and Reverse Osmosis.

Key TM.P. Facts & Figures in Desalination over the last 30 years:

- The total installed power of medium and large-sized pumps supplied amounts to: **550 MW** (from 200 kW to 6,600 kW)
- Total number of pumps supplied: more than **650**
- More than **50 plants** equipped & serviced worldwide
Sea water supply pump - RO Desalination Plant - Saudi Arabia

Brine Recirculation pump - Jebel Ali Desalination Plant - U.A.E.
Termomeccanica Pompe entered the Petrochemical and Oil&Gas markets in the early 1960’s, markets which soon came to represent an important share of Termomeccanica Pompe’s business.

Today, thanks to its century-old expertise and its constant investment in R&D, Termomeccanica Pompe has renewed and enhanced its production program to supply a wide range of API 610 centrifugal pumps for the most demanding services, including oil pipelines, liquefied natural gas, on-shore and off-shore water injection.

Key TM.P. Facts & Figures in Oil&Gas over the last 30 years

- The total installed power of medium and large-sized pumps supplied amounts to 500MW (from 200kW to 7,000kW)
- Total number of pumps supplied: over 300
- More than 50 plants equipped & serviced worldwide
Water Injection pumps on Floating Production Storage & Offloading Vessel
FPSO Gimboa - South Atlantic Ocean - Angola
Service Division
Service Division Mission

TM.P. Service Division's mission is to offer a worldwide presence, guaranteeing a reliable, efficient, responsive and all-encompassing assistance to its Customers & End-Users, covering any need that may arise during their plants’ entire life cycle.

Service Activities

Termomeccanica Pompe’s Global Service organization offers a complete portfolio of activities aimed at ensuring high quality maintenance at lower cost, improving machine performance, saving energy and therefore reducing total plant operating costs.

Service Activities Portfolio

- Supply of rotating machines
- Supply of spare parts
- Maintenance, overhaul & repairs
- Rehabilitation (upgrading & refitting)
- Plant shutdown global service
- Energy saving
- Reverse engineering
- Technical assistance & other field services
- Installation, start-up & commissioning
- Local and remote monitoring & diagnostics
- Personnel training & plant management

Network of Controlled Service Companies

The company has been following a policy of local presence, establishing Service companies in key geographical areas with high density of installed products and/or job opportunities.

Such policy is aimed at optimizing rapport with Customers and End Users through improved closeness and responsiveness of services.

Over the past 15 years, TM.P. has developed a network of branches and majority-owned subsidiaries with well-equipped workshops, which, to date, include:

- TMP S.p.A. Termomeccanica Pompe - Massafra local unit (Taranto- Italy)
- S.C. TM.P. Termomeccanica Romania Srl (Bucharest)
- LLC Termomeccanica RUS
- Termomeccanica Saudia Co. Ltd (Riyadh - Al-Jubail)
- Termomeccanica Pumps Services LLC (Abu Dhabi - U.A.E.)
- TM.P. SpA Termomeccanica Pompe - India Branch (Pune)
Optimization of Hydraulics Performance aimed at Energy Saving