

TMP news



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TERMOMECCANICA POMPE & THE NEW NATIONAL ENERGY PLAN

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The new National Energy Plan, geared towards the construction of Nuclear Power plants, finds in TM.P. SpA - Termomeccanica Pompe a qualified and reliable candidate for the supply of centrifugal pumps used for the various services required by such plants. Indeed, for decades, a 100-percent Italian-owned Termomeccanica Pompe has been a well-known leader at home and in the world in the design & construction of medium- and large-sized engineered centrifugal pumps for numerous industrial applications related to power production, sea water desalination, the petrochemical market as well as irrigation and water handling.

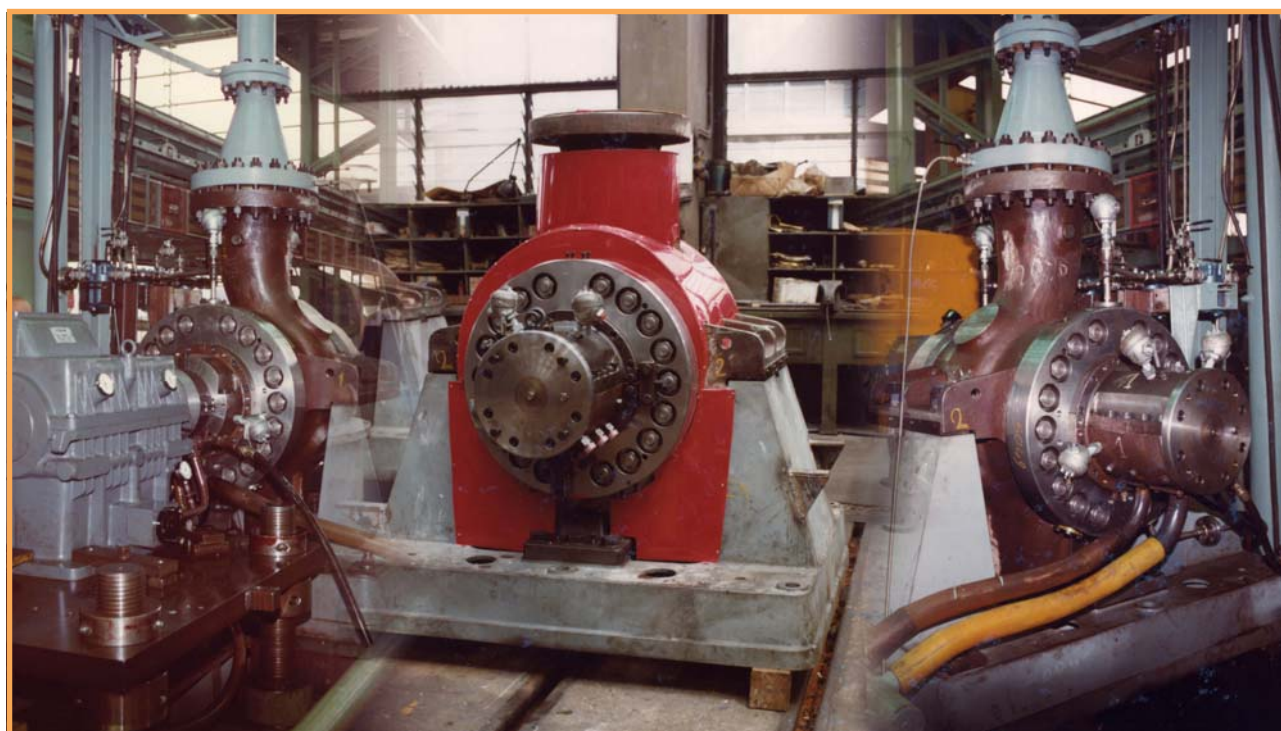
With regards to the Power production sector, the company has a wide installed base spread across hundreds of fossil fuel & steam-cycle thermal power plants, combined cycle plants with steam and gas turbines as well as geothermal plants which use the high temperature of the steam present in the deep layers of the earth's crust.

Due to the requirements of the main markets the Company operates in, the pumps normally supplied have a considerable power absorption capability and are specifically designed according to Customers requirements.

This characteristic has allowed Termomeccanica Pompe to create and fine tune multiple Designing methods & criteria as well as an extremely flexible manufacturing process which last step consists of performance testing. Such tests are carried out in the in-house Test Center which is equipped with loops allowing to test pumps with heads up to 60.000 m3/h, with power up to 12.000 kW and for temperatures up to 200°C.

Termomeccanica Pompe's success in the Energy market also stems from the experience the Company developed during the 1970s & 1980s, period when it played a key role in the supply of pumping units for the Italian Nuclear Power plants such as the prototype plant of Latina (GCR Magnox reactor), the Garigliano plant (BWR reactor) and the Alto Lazio plant (982 Mw BWR reactor). With regards to the latter, on top of the pumps for the main services of the secondary cycle, Termomeccanica Pompe also supplied the High Pressure Core Spray Pumps as well as the Emergency pumps for reactor shutdown in case of accidental damage.

During such years, Termomeccanica Pompe



Heavy Duty Boiler Feed Water Pump for Nuclear Applications

also turned to exports: the Company supplied a relevant number of pumps for the uranium enrichment plants of Tricastin in France as well as many pumps or main systems of the Thermonuclear plants of Cordoba & Atucha in Argentina and Cernavoda in Romania, and Crey Malville in France.

Through such projects, the Company has been able to consolidate at all levels a highly specialized know-how and experience and to implement a Quality Guarantee Program which allowed to obtain at the time the N-stamp qualification.

The stop of the Italian Nuclear Program and the general slowdown of the construction of nuclear power plants in the rest of the world have forced Termomeccanica Pompe to review its product portfolio. Nevertheless, this past nuclear experience has remained imprinted in the Company's DNA. The Quality Guarantee Program, in its turn, has evolved and improved through time, adapting itself to the most recent international norms and regulations.

The company has yet to stop dedicating special attention to the Nuclear Power market. In actual fact, TM.P. has undertaken to create local co-manufacturing agreements in developing countries which could allow the local partners to acquire part of the necessary know-how.

It is in this context that during the last few years Termomeccanica Pompe has supplied large centrifugal pumps for condenser cooling for the Indian Nuclear Power plants of

Tarapur (2x 540MW) and Bhavani (2x660MW), plants commissioned by NPCIL, the Indian authority for Nuclear Energy. Consequently, it is an undisputable fact that Termomeccanica Pompe has all the requisites to candidate itself, as from today, to play a leading role in the Italian supply chain of suppliers of main equipments intended for the Nuclear Power plants of the new national Energy Plan.

For this reason, the Company has already initiated the qualification procedure with both ENEL/EDF (EPR technology) and Ansaldo / Westinghouse (AP1000 technology) in order to proceed to possible product adaptation to the two specific technologies: TM.P. is indeed confident that its accumulated experience will allow the Company to easily position itself at a preeminent level in this market.



Condensate Cooling Water Pump for Nuclear Applications

A.R.D.E. PROJECT

Reaching for Excellence 2009 Progress Report - 2010 Program

2009 has been a key year for the A.R.D.E. Project. In actual fact, the courses aimed at developing the employees' technical and professional stock of knowledge continued and consecutively, together with the Foreign Language and QSE (Quality, Safety and the Environment) courses, training programs related to **both Fields of Application of the Product and Non Destructive Testing (NDT)** were initiated. With regards to the latter, exams were recently held for **ASNT Level II Certification on Penetrant Dye Testing**. Courses on International Contracts and **Components with External Technology** will also be held during the course of 2010.

All training activities of the Project will come to a conclusion by the end of the current year, time by which **the total 1.500 teaching hours** of the Project will have been reached. In addition, **the path to Cultural Change** set in parallel to the A.R.D.E. Project with the collaboration of I.E.N. (European Institute of Neurosystemics) has successfully carried on as planned during 2009. Actually, the Competence Teams formed last year as "guardians" of the five Company Competences will play a key role during the year 2010 as they will organize activities intended to divulge, develop and monitor the TMP competences throughout the company.



Non Destructive Tests on Impellers

OPENING OF A T.M.C. PRODUCTION FACILITY IN SHANGHAI



During the course of the second half of 2009, T.M.C. decided to establish T.M.C.SS. LLC with offices and production facility based in Shanghai in order to better serve the Chinese market where T.M.C. has had a significant presence since 2004.

In fact, the constant evolution and internal growth of the Chinese market over the recent years has led to strong competition on prices, due to both the development of local manufacturers and the transfer of production facilities to China by multinational competitors.

As a result, T.M.C. was driven to establish a local manufacturing company which could maintain its competitive edge on the local market thanks to the drastic cut of production costs.

The main objective of T.M.C. is to keep the quality of the product manufactured in China at the highest level: indeed, the machining of the rotors, the most technological and sophisticated part of the compressor, has been kept in Italy whereas all the other parts are locally purchased as raw materials and then, machined, assembled and tested at the new local production facility.

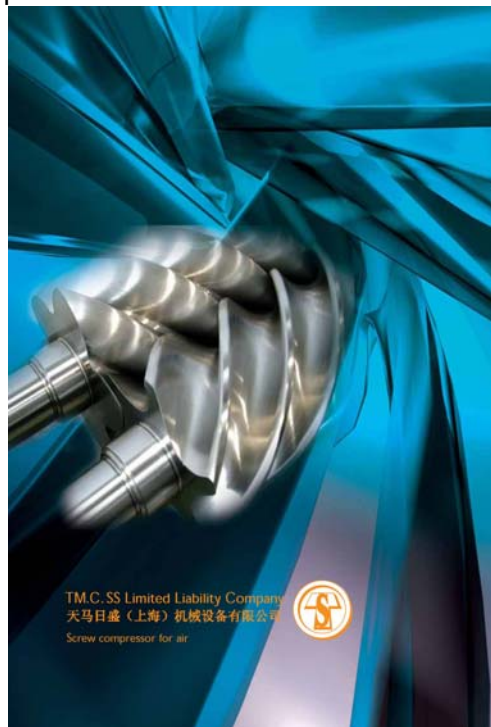
Relevant importance has been given to assuring an adequate level of training to the local personnel: the training is performed directly by personnel from the head office of La Spezia; moreover, the management structure of the local company is composed of Italian expatriates.

The production equipment has been selected according to company standards and practices; controls are also in line with the parent company standards thanks to the use of identical procedures and machinery.

The new Shanghai-based production facility has been operational since the beginning of November 2009 and the first months of activity are fully supporting of the choice the company made. In actual fact, the product, offering excellent results and performances, has already been successfully introduced in the Chinese market.

The new company, T.M.C. SS., is located in a modern warehouse, comprising a 1.000sq.m. of equipped production facilities plus office space, situated in the Baoshan industrial area which is less than one hour drive away from downtown Shanghai.

The local company has been established as a 51/49 joint venture between T.M.C. and Shanghai Schneider Mechanical Group. Shanghai Schneider Mechanical Group is a company which assembles packages, i.e. the complete system compressing air whose critical element consists of T.M.C.'s screw compressor.



T.M.C. SS Limited Liability Company
天马日森 (上海) 机械设备有限公司
Screw compressor for air

flash news

TMP WIKI



Within the continuous Product and Company procedure optimisation, the Operations Division has promoted the creation of a **Knowledge Management Software** which allows to manage and share knowledge and experiences, intended not only as individual legacies but also as corporate legacy.

The contents of the portal are entered and updated by users themselves, exactly as it happens in Wikipedia, source of its inspiration.

It is important to underline the cultural change behind the project: in fact, this gathering place which allows all TMP personnel to have direct access to knowledge and experiences represents a turning point in the company information management.

ATEX Certification for AP type pumps (OH2)

T.M.P. has recently registered with **Bureau Veritas Italy** (Notified Body registered under n. 1370) the Technical Specifications for the certification of conformity to Directive 94/9/CE requirements for its AP process pumps line (OH2) designed according to API 610 standards for Oil & Gas market applications. The compliance to such directive is compulsory for any product to enter the EU market and to be used in potentially explosive atmospheres.

The above is the copy of the certificate n. **ATEX/ITA/10/007** released to TMP by Bureau Veritas.



The editors of this issue are:

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Our mission

To contribute to the success of our customers through our experience and know-how. We pursue this goal giving the utmost consideration to the hard work and commitment of employees and suppliers, respecting Environment and complying with expectations of our Shareholders.

