



TECTUBI RACCORDI S.p.A.

# TECTUBI Today



THE FIRST ITALIAN MANUFACTURER OF STEEL BUTTWELD PIPE FITTINGS

## LEADER IN THE FITTING INDUSTRY SINCE 1954

*Tectubi Raccordi has a very long history*

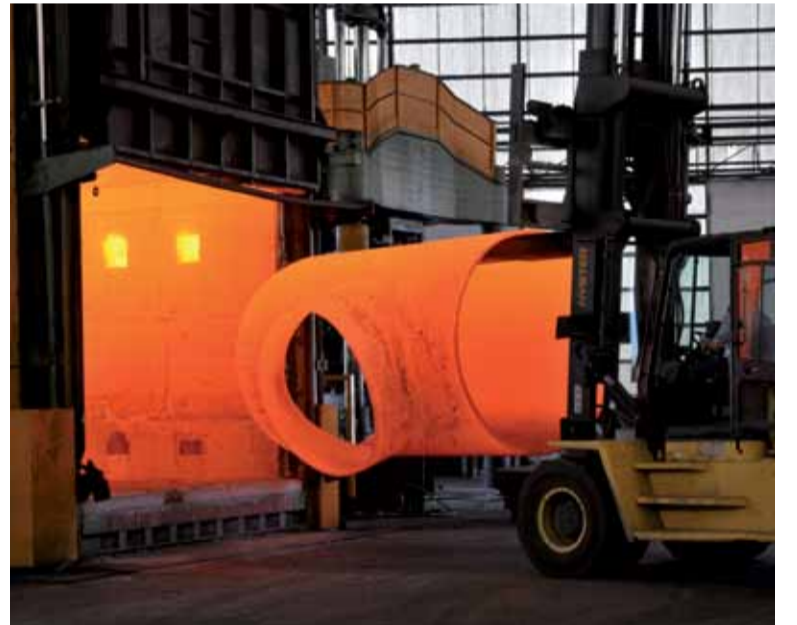


## More than 50 years' experience in the nuclear sector

Tectubi Raccordi has more than 50 years' experience in the production of fittings for the nuclear sector, which represents a key sector for the positioning and growth of the company.



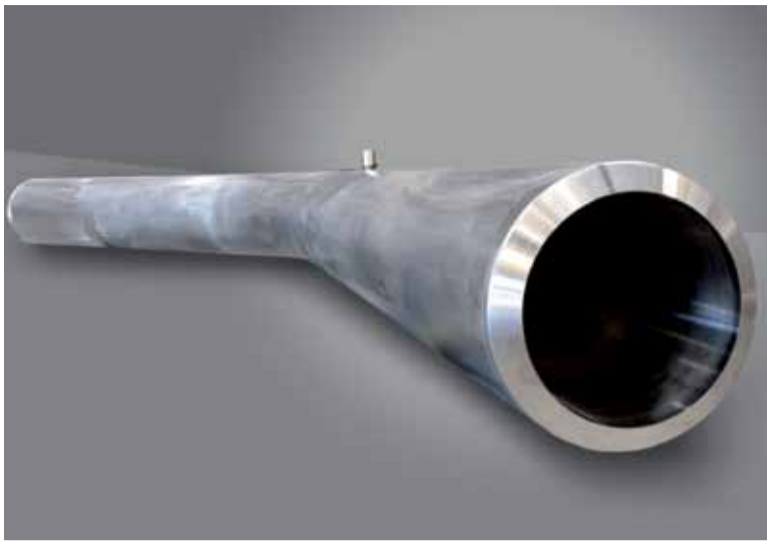
**F**ounded in 1954 and part of Allied International Group since 2003, Tectubi Raccordi was the first Italian manufacturer of steel butt weld pipe fittings, responding to the combined needs of oil & gas installations, refineries, shipyards, chemical plants, thermal and nuclear power plants. With its head office in Podenzano (Piacenza, Italy), three plants in the Piacenza area (Podenzano, Castel San Giovanni, Calendasco), one in Carbonara Scrivia (Alessandria, Italy) and one in Schio (Vicenza, Italy), the company has reached a yearly capacity of 48,000 tonnes of fittings up to 120" in all material grades, 10,000 tonnes of bends up to 60" (hot induction bending and cold forming) and 7,500 tonnes of welded and clad pipes up to 100". Over the years, the company has acquired a position of leadership both on the Italian and international market, acting as a reference point for the entire sector in the production of fittings and bends. Tectubi Raccordi is approved by the major players and is certified, among others, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, AD 2000-Merkblatt HP0 - W0 - PED 2014/68/EU, ASME Section III NCA 3800 and compliant with RCC-M rules.



The company is making noteworthy investments to support the NPPs (Nuclear Power Plants) of the latest generation and has obtained the main certifications: ASME (Section III NCA 3800), China NNSA-Nuclear Safety Certificate and compliance with RCC-M code. A Nuclear Division was formed and covers all areas with a team

of skilled professionals and has become a member of AIN (**Italian Nuclear Association**). Nuclear projects are managed by dedicated project teams, and procedures implemented for the nuclear projects (project management and document management) represent the company's best practices for managing also all other kinds of projects.





# Over half a century of growth in nuclear projects

**1971**

**2 projects**

Production of buttwelding fittings for Italian NPPs located in Caorso (PC) and Trino Vercellese (VC) in cooperation with Ansaldo Nucleare and General Electric

**1975**

**3 projects**

First relationships with Framatome (AREVA NP) and EDF for the construction of the first NPPs in France (Phoenix and Super-Phoenix)

**1980  
1990**

**12 projects**

Production of buttwelding fittings for the Italian NPP in Montalto di Castro (VT) and for the construction of the first NPP in China in cooperation with Framatome (AREVA NP)

**1991  
2010**

**84 projects**

Consolidation of Tectubi Raccordi leadership in the nuclear market: nuclear projects supplied in France, China, South Korea and South Africa

**2010  
2022**

**125 projects**

Standard and special fittings for the new generation of NPP (EPR and AP1000)

Tectubi Raccordi recognized as a top level partner in the nuclear supply chain



# A wide range of fittings for all energy markets

Tectubi Raccordi manages the whole cycle of production, distribution and aftersales services

the opportunity to develop the market and the products in line with trends in the field of energy.

The various types of production in the Tectubi Raccordi plants are as follows: in Podenzano (Piacenza) - all sizes of welded and seamless fittings (elbows, tees, reducers, caps, special pieces) up to 60" in all types of ferrous, non-ferrous and special alloy materials and special products, cold forming tees up to 16"; in Castel San Giovanni (Piacenza) - mandrel elbows up to 56", elbows, tees, reducers, caps and special pieces, seamless and welded up to 120"; in Calendasco (Piacenza) - seamless and welded cold formed elbows in stainless steel and special alloys up to 16"; in Carbonara Scrivia (Alessandria) - cold bending elbows and hot induction bending elbows up to 60"; in Schio (Vicenza) - welded pipes, thin wall and heavy wall, up to 100" and 12m length, clad pipes.



Tectubi Raccordi produces a wide range of fittings, such as elbows, tees, reducers, caps, bends and many others from 1/2" to 120" diameter in all material grades, according to international standards and clients' requirements. Tectubi Raccordi's target markets can be divided into up/mid/downstream oil & gas, which include onshore and offshore/subsea plants, pipelines and refineries, and power generation such as nuclear and thermal power plants. Tectubi Raccordi manages the whole cycle of production, distribution and aftersales services in all these markets. EPC companies represent the largest part of its capacity. Close co-operation with clients gives the company

# THE LATEST TECHNOLOGIES IN THE TECTUBI PLANT OF CASTEL SAN GIOVANNI



*A large-dimensions induction mandrel and bending machine capable of unequalled production and performances*

Tectubi Raccordi's factory is equipped with the latest technology at worldwide level in the fittings industry, occupies an area of 251,000 sqm and is dedicated to the production of seamless and welded mandrel elbows in carbon and alloy steel up to 56", reducing elbows up to 24" and all kinds of large size fittings up to 120" with a yearly capacity of 30,000 tonnes. A mandrel machine is operational in this plant; with a length of 66.5m, width of 7m and a max. working force of

1,800 tonnes, it aims at increasing production capacity by 60%. Unique in Europe, and probably in the world, this machine can deform a tube of 13m and produce elbows with a diameter up to 56" and a wall thickness of 2", with a heating capacity of 850° for 11.5 tonnes of material per hour. The factory brings together aspects of industrial development, environmental protection and enhancement of the local community, accompanied by constant research and innovation.

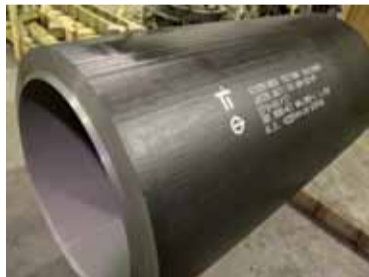
## Vast experience in welded pipes

The Welded Pipes Division serves worldwide projects in many key sectors and markets

Twelve years ago, Tectubi Raccordi incorporated Gieminox, a well-established manufacturer of welded pipes founded in 1980 and based in Schio, into Gieminox-Tectubi Raccordi Welded Pipes division, thus broadening the product range through the direct production of welded

pipes from 3" and including all non-standard sizes and clad pipes from 6" up to 100" OD in every type of steel. Since then, the company has invested in equipment to guarantee the highest production standards according to international specifications and to

shorten the lead time. Its production includes welded pipes up to 70mm wall thickness and up to 12.2m length, solid CRA (Corrosion Resistant Alloy) pipes and longitudinally metallogically welded clad pipes, designed to meet specific requirements in terms of mechanical and corrosion properties. The Welded Pipes Division serves worldwide projects in the oil & gas, chemical and petrochemical industries, power plants, mining industry, water treatment plants, engineering and construction. Furthermore, thanks to Tectubi Raccordi's expertise in manufacturing pipes and fittings for the nuclear industry, it has also acquired good experience in production for this sector as well.



## Exclusive patents and innovation, a strength in bending

*A top class production of large-radius bends by hot induction and cold bending*



In late 2017, Tectubi Raccordi merged into Tectubi Raccordi Bending Division the former OMP (Officine Meccaniche Piemontesi), a top-class manufacturer of special bends since 1968 and a strategic supplier of the Allied International Group for several years. This incorporation allowed the integration of operations with new equipment designed to produce special bends for the oil & gas and power industries. Tectubi Raccordi Bending Division produces large-radius bends by hot induction and cold bending. Both technologies are used for carbon and alloy steel for moderate and elevated temperatures, high yield steel, carbon and alloy

steel for low temperature service, stainless steel, austenitic/ferritic stainless steel, nickel alloy, titanium alloy and aluminium alloy. The cold bending method, originating from a registered industrial patent, delivers an identical structure to that of the original tube, so the product does not need further heat treatment when the mechanical characteristics comply. Regarding hot bending, company capacity has increased thanks to the purchase of a new induction bending machine, Schäfer SRB-MI 1400, that enables the production of bends from 2" to 60" diameter, bending radius from 250 to 10,000mm and thickness from 7 to 100mm.

# TECTUBI RACCORDI initiatives to remain at the forefront

## TECTUBI RACCORDI places its faith in hydrogen gas

With 70 years' history behind it, and internationally at the top of the game in the nuclear and all other energy sectors, Tectubi Raccordi is readying itself to lead also in the transportation of hydrogen, and thus to contribute to green energy transition. To this end, Tectubi Raccordi has developed and certified its fittings by working with RINA in Rome, the internationally important centre of excellence.

The certification process was carried out on the main components (tees, bends, etc., both welded and seamless), the main raw materials (steel sheeting, tubes), the main manufacturing techniques (cold formed and hot formed, etc...). The tests, which were performed at the RINA laboratories, lasting over 1,000 hours per test, proved the suitability of all the materials tested for hydrogen service



## TECTUBI RACCORDI among the prestigious sponsors of the nucleareurope conference in Lyon

Tectubi Raccordi is honoured to have sponsored the **nucleareurope** conference held in Lyon "Nuclear: a strategic industry serving Europe". **nucleareurope** acts as the voice of the European nuclear industry in energy policy discussions with EU Institutions and other key stakeholders, representing 3,000 European companies active across the whole nuclear supply chain. The conference was an opportunity to present the future projects (EPR2, SMR, Hydrogen) in which Tectubi Raccordi is already involved and committed to playing a key role supporting its French and European partners.



## TECTUBI RACCORDI joins the Italian Nuclear Association

Tectubi Raccordi is a member of AIN (Italian Nuclear Association), the important non-profit technical-scientific association that represents all the existing competence centres in Italy in the field of energy and nuclear technologies. AIN aims at developing and representing, at national and international level, qualified positions and opinions concerning nuclear initiatives and problems, as well as maintaining relations with national, international and supranational bodies in the nuclear sector and with similar organizations existing in other countries. AIN represents the Italian nuclear system within the European Nuclear Society (ENS) and the European Atomic Forum (FORATOM) with consultative status with the UN-IAEA, the European Commission and the European Parliament.

On the left: the laboratory where the RINA tests were performed. Opposite: Valter Alberici, president of Allied Group and Greta Alberici, Group Corporate Development and M&A manager, at the Lyon conference.



## TECTUBI RACCORDI member of the NIA- Nuclear Industry Association

Tectubi Raccordi has joined the NIA, the trade association for the UK's civil nuclear industry aimed at supporting the UK's nuclear sector and maximizing existing and new opportunities. In fact, UK industry will play a key role in delivering a fleet of new nuclear power stations across Britain. Nuclear businesses in UK have the potential to secure tens of billions of pounds and create thousands of highly skilled jobs.

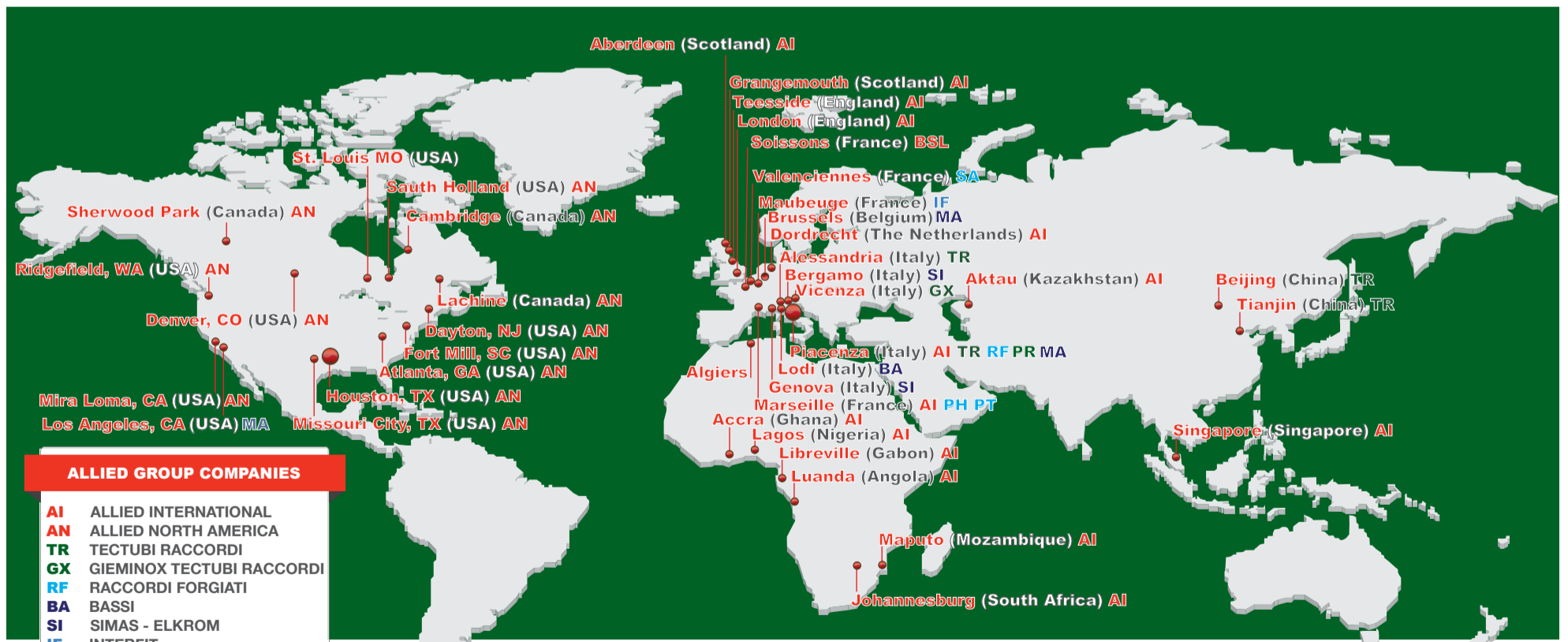
## TECTUBI RACCORDI recognized as sector leader by the World Nuclear Association

The World Nuclear Association (WNA), global private-sector organization that seeks to promote the peaceful worldwide use of nuclear power, in September 2023 organized the World Nuclear Symposium in London, in which Tectubi Raccordi participated as silver sponsor, in recognition of its position as an industry leader.

In the Symposium presentation WNA wrote: "Tectubi Raccordi SpA has acquired a position of leadership both on the Italian and international markets, acting as a reference point for the entire sector for fittings and bends, responding to the combined needs of oil & gas pipelines, shipyards, chemical and nuclear installations. It's the world's leading manufacturer for all types of fittings used in Nuclear Power Plants."

## ALLIED GROUP'S ESG strategic path highlighted in the trade press

In the latest issue of Impiantistica Italiana (Italian Plant Engineering), the leading magazine in the sector and official organ of AN-IMP (Italian Association of Plant Engineering), great emphasis is given to the environmental, social and governance (ESG) strategic path undertaken by the Group's companies to ensure environmental, social and economic sustainability in the medium and long term.



- ALLIED GROUP COMPANIES**
- AI ALLIED INTERNATIONAL
  - AN ALLIED NORTH AMERICA
  - TR TECTUBI RACCORDI
  - GX GIEMINOX TECTUBI RACCORDI
  - RF RACCORDI FORGIATI
  - BA BASSI
  - SI SIMAS - ELKROM
  - IF INTERFIT
  - PH PHOCÉENNE
  - PT PIPING TECHNOLOGIES
  - SA SAIC
  - BSL BSL PIPES & FITTINGS
  - PR PETROL RACCORD
  - MA MANDELLI



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