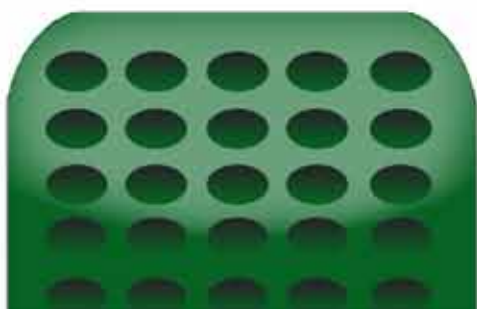




TECTUBI RACCORDI S.p.A.



BUTTWELDING
FITTINGS AND
SPECIAL PRODUCTS



COMPANY DETAILS

Company Name

Tectubi Raccordi S.p.A.

Registered Office

Via Roma, 150
29027 Podenzano (Piacenza) - Italy

Paid Capital

Euro 5,160,000.00

VAT No.

IT 01230470997

Chamber of Commerce

REA/PC 157708

Plants

Via Roma, 150
29027 Podenzano (Piacenza) - Italy

Via G. Galilei, 1
29015 Castel San Giovanni (Piacenza) - Italy

Via Ancona, 27
29010 Calendasco (Piacenza) - Italy

OMP Mongiardino
Tectubi Raccordi Bending Division
S.S. 35 bis dei Giovi, Km 64
15050 Carbonara Scrivia (Alessandria) - Italy

Gieminox Tectubi Raccordi
Welded Pipes Division
Via Lago di Vico, 22
36015 Schio (Vicenza) - Italy

Sales Office & Administration

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TECTUBI RACCORDI S.p.A.

HISTORICAL BACKGROUND



The first Italian leading manufacturer of butt welding fittings

Tectubi Raccordi S.p.A., incorporated into **Allied International Group** in 2003, has a very long history and experience. Founded in 1954, it was the first Italian and today remains the worldleading manufacturer for all types of butt welding fittings to be used in nuclear power plants, thermal power stations, LNG plants, oil&gas and water pipeline transmission systems, off-shore and onshore platforms, petrochemical plants. It is the top supplier of superpipes for nuclear power station main steam. For over half a century **Tectubi Raccordi** has collaborated with the most important engineering companies associated with these projects, offering the market first-class reliable products and services with the highest degree of technical skill and commercial service both during production and after sales. The technical services are at the Client's disposal for any request connected with material, design, production and all relevant international specifications.

A wide range of products in Italian plants

Tectubi Raccordi exports worldwide 90% of butt welding fittings produced in Italian plants:

- **Podenzano (Piacenza)**: seamless and welded elbows, tees, reducers, caps and special products up to 120".
- **Castel San Giovanni (Piacenza)**: 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".
- **Calendasco (Piacenza)**: seamless and welded elbows by cold forming system up to 16" in stainless steel and special alloys.
- **Carbonara Scrivia (Alessandria)**: seamless and welded large-radius bends by hot induction (from 6" to 56") and cold bending (from 2" to 60").
- **Schio (Vicenza)**: heavy wall welded pipes, longitudinally welded clad pipes, bi-metal lined pipes. Outside diameter from 3" to 100"; wall thickness from 3 mm up to 60 mm; length up to 12 m.

The new plant in Castel San Giovanni, Italy and in addition the new factory in Tianjin, China (aimed to support new Chinese and South-East Asian projects), both endowed with the latest technologies, will increase significantly the production capacity.

Quality assurance, economic growth, environmental protection and human respect

The prestigious position of **Tectubi Raccordi** largely depends on the superior craftsmanship capability and experience of its workers, together with technological innovations and continual planning by the internal engineers, because the company is not new to this principle of always looking to the future through research and innovation, while it is a historical company, which has its roots in the far-off 1950s.

Quality assurance, economic growth, environmental protection and human respect are fundamental to that success. Thanks to the superior quality of its products and its core values, this company has won the approval of the world's major end users and has obtained the major Quality Certifications of ASME QSC as a material organization, ISO 9001:2008, TÜV AD 2000 MERKBLATT, GOST - ROSTECHNADZOR Russia and NNSA China.

An alliance of ideas, people, skills and markets, confirming important and rewarding results. As the most advanced technological civilization can guarantee.



PLANT AREAS AND OFFICES



Podenzano plant



Calendasco plant



Castel San Giovanni old plant



Castel San Giovanni new plant and warehouse

PODENZANO - Piacenza - Italy
Plant Area (sqm)

Open:	35,000
Covered:	24,000
Total Area:	59,000

Main Products:

all kinds of fittings up to 120" in all types of ferrous, non-ferrous and special alloy materials and special products.

CASTEL SAN GIOVANNI - Piacenza - Italy
Old and new Plant Area (sqm)

Open:	255,000
Covered:	33,000
Total Area:	288,000

Main Products:

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".

CALENDASCO - Piacenza - Italy
Plant Area (sqm)

Open:	4,000
Covered:	4,800
Total Area:	8,800

Main Products:

cold formed elbows in stainless steel and special alloys up to 16".

TIANJIN - China
Plant Area (sqm)

Open:	33,000
Covered:	35,000
Total Area:	68,000

Main Products:

elbows, tees, gauged and normal reductions.

CARBONARA SCRIVIA - Alessandria - Italy
Plant Area (sqm)

Open:	22,500
Covered:	27,500
Total Area:	50,000

Main Products:

cold bending of pipes made of carbon steel, alloy steel, stainless steel, duplex and titanium, welded (SAW or ERW) or seamless from 2" to 60". Hot bending from 6" to 56".

SCHIO - Vicenza - Italy
Plant Area (sqm)

Open:	9,000
Covered:	21,000
Total Area:	30,000

Main Products:

heavy wall welded pipes, longitudinally welded clad pipes, bi-metal lined pipes; outside diameter from 3" to 100"; wall thickness from 3 mm up to 60 mm; lenght up to 12 meters.

**SUMMARY OF
TECTUBIRACCORDI PLANTS**
Plant Area (sqm)

Open:	358,500
Covered:	145,300
Total Area:	503,800

Main Products:

buttwelding fittings (elbows, tees, caps, concentric and eccentric reducers) up to 120" in any steel type, hot and cold formed, bends, welded pipes.



Tianjin new plant



Carbonara Scrivia new plant



Schio plant

PLANT AREAS AND OFFICES

THE NEW PLANT IN CASTEL SAN GIOVANNI, ITALY

Allied International Group, that has built the whole process from production to delivery of its manufactured products thanks to the complete control of the supply chain, has recently invested in a new plant in Castel San Giovanni (Piacenza, Italy), with a total area of 351,100 sqm (of which 53,000 sqm covered, comprising a 28,000 sqm **Tectubi Raccordi** factory and 25,000 sqm of **Allied International** warehousing and stock facilities).

While the warehouse is completely working and offers the complete range of fittings, the production facility, due to open officially in a short period of time, will produce and market seamless and welded mandrel elbows in carbon and alloy steel up to 56" and all kind of fittings up to 120", aiming to increase the production capacity by 60% within two years, thanks to its technologically advanced machinery and processes and skills.

Its strong points are high standard of production quality, advanced technology, professionalism, highly organized working spaces and abidance with the most up-to-date energy-saving criteria. In this way a project of advanced technology comes to life, developed as a result of the constant research and innovation philosophy that drives this company and the plant is the visible testimony of possible harmony between industrial development, economic growth, environmental protection, human respect, widespread enhancement of the community.

At top: the new press for the forming of fittings with a moving table 5,000 x 6,000 mm, 6,000 mm span, 3,000-tonne press force and a 1,000-tonne capacity bottom cylinder (extractor) with a 2,500 mm stroke.



Right: aerial view of Allied Group's new site in Castel San Giovanni (Piacenza), Italy.

The nearly finished Tectubi Raccordi site, visible in the background behind the already operative new Allied International warehouse, is built on an area of 251,000 sqm including 28,000 sqm covered.



Mandrel and bending machine MTC 1800

Stages of mounting of the new large-dimension mandrel machine installed in the new factory in Castel San Giovanni. Capable of unequalled production and a wide range of performances, this machine is able to deform a tube of 13 meters and to produce elbows with a diameter up to 56". Length of the machinery: 66.5 m - Width of the machinery: 7 m - Max. working force: 1,800 tonnes - Power induction: 4,000 Kw - Throughput: 11,500 Kg/h (T= 900° C).

THE NEW PLANT

TECTUBI TIANJIN FITTINGS IN CHINA

Tectubi Raccordi S.p.A., well known in China as a world leading fittings manufacturer, has constituted **Tectubi Tianjin Fittings Co. Ltd.**, with an investment plan focused to suitably support new Chinese and South-East Asian projects aimed to the energy production and transmission systems.

The new plant, with a total surface of 68,000 sqm (covered 35,000 sqm), which foresees the recruitment of 200 employees, has started the production cycle in 2011 and it will gradually be brought to a total production of 15,000 tonnes a year of elbows, tees, gauged and normal reductions for all the power markets and for petrochemical sector.

It is located in Tianjin, in the centre of Dongli Economic and Technological Development Area (DEDA). In addition three sales offices have been opened in Beijing, Shanghai and Guangzhou.

The factory is equipped with the most advanced equipment while all the “key” technical personnel have been trained in Italy with spirit of internalization and linking the cultures.

Proximity with Chinese Clients and the combination of Italian expertise and Chinese manufacturing skill and production speed are the ingredients of a sure success. The long-term goal is to play a dominating role as the main supplier in the area.



Elbows and tees production.



Flanges production.



View of the internal plant.



The shot blasting machine.



Entrance of the headquarters of Tectubi Tianjin Fittings.

THE NEW BENDING DIVISION IN CARBONARA SCRIVIA (ALESSANDRIA), ITALY

Since November 2009 **Tectubi Raccordi S.p.A.** has formed a newco with **OMP Mongiardino S.R.L.**, founded in 1968, the first Italian company to manufacture large-radius elbows for oil & gas ducts and every type of industrial or civil plant. Over the years **OMP Mongiardino's** high standard of production has led to it becoming one of the most experienced companies in its field.

The aim of **OMP Mongiardino-Tectubi Raccordi Bending Division** is an enlargement of the **Tectubi Raccordi** product range with special bends, so as to better support its Clients projects in the nuclear and oil & gas markets.

Today the newco still has its original plant in Genoa , but has transferred its head office to Carbonara Scrivia (Alessandria), where a new 12,000 sqm compound has been built, including a factory and office facilities.

The company is the sole depository of a registered and copyrighted industrial patent of a process for the cold bending of pipes made of carbon steel, alloy steel, stainless steel, duplex and titanium, welded (SAW or ERW) or seamless, with diameters ranging from 2" to 60". The hot bending department, where are already working two induction machines model Cojafex PB 600 and PB 1000, has considerably increased its production capacity with a new electric induction machine, Schäfer SRBMI 1400, which enables the company to deal even more completely with the needs of its Clients with products ranging in diameter from 6" to 56", bending radius from 400 mm to 10,200 mm and thickness from 7 mm to 100 mm.



Cold bending of a large pipe.



The new electric induction machine Schäfer SRBMI 1400.



Internal of the new factory in Carbonara Scrivia (Alessandria), Italy, with a total surface of 12,000 sqm.

THE NEW WELDED PIPES DIVISION IN SCHIO (VICENZA), ITALY

Gieminox S.R.L., now **Gieminox Tectubi Raccordi Welded Pipes Division**, as the newco created in early 2011 is called, since 1980 has become a well-established manufacturer of longitudinally welded pipes, fittings and auxiliary components in stainless steel, nickel and nickel alloys, duplex and superduplex for energy production and transmission industries and plants.

Gieminox Tectubi Raccordi, which is another strategic step forward in the process of expansion and reinforcement of **Allied International Group's** manufacturing sector, had to conform right from the start to the elevated standards required by the international specifications of such products. Today the company enjoys the fruit of its investments in highly improved advanced technologies in manufacturing and welding procedures and produces heavy wall welded pipes up to 60 mm wall thickness and up to 12 meter lengths, solid CRA pipes and bi-metal lined pipes and longitudinally welded clad pipes, designed to meet the customers' specific requirements in terms of mechanical and corrosion properties.

Gieminox Tectubi Raccordi's indisputable goal to continue to prove itself a market leader is the reason for the substantial and progressive investments undertaken to update and increase the logistic and production facilities. The latest generation brake presses, heat treatment furnaces, rolling machines, welding equipment, turning machine, etc. have in fact been installed in order to guarantee the most advanced technological manufacturing system.



MANUFACTURING PROGRAM



Standard Fittings

Type of product	Dimensions	Steels	Execution
Elbows	Up to 120"	All grades	Seamless and welded (cold formed, hot formed and by mandrel)
Equal and reducing tees	Up to 120"	All grades	Seamless and welded (cold formed and hot formed)
Concentric and eccentric reducers	Up to 120"	All grades	Seamless and welded (cold formed and hot formed)
Caps	Up to 120"	All grades	Seamless (cold formed and hot formed)

Special Fittings

Type of product	Dimensions	Steels	Execution
Reducing elbows	Up to 60"	All grades	Seamless and welded
Special radius bends (3D)	Up to 56"	All grades	Seamless and welded segmentable
Special radius bends (2,5D 3D 4D 5D 7D 10D 18D)	Up to 60"	All grades	Seamless and welded (hot induction and cold formed)
Barred tees	Up to 120"	All grades	Seamless and welded (cold formed and hot formed)
Special flow tees	Up to 120"	All grades	Seamless and welded
Equal and reducing crosses	Up to 120"	All grades	Seamless and welded
Equal and reducing laterals	Up to 120"	All grades	Seamless and welded

Special Products

Type of product	Dimensions	Steels	Execution
Headers and extruded manifolds	Up to 120"	All grades	Seamless and welded
Slug catchers	Up to 60"	All grades	Welded
Split tees	Up to 120"	All grades	Seamless and welded
"Y" pieces	Up to 120"	All grades	Seamless and welded

Special products as per Client's drawing

MATERIALS



Materials used and related International Standards

CARBON AND ALLOY STEEL FOR ROOM, MODERATE AND ELEVATED TEMPERATURES

- ASTM / ASME A234: WPB - WPC - WP1 - WP11 - WP12 - WP5 - WP22 - WP9 - WP91
- EN 10216-2: P195GH - P235GH - P265GH - 20MnNb6 - 16Mo3 - 8MoB5-4 - 14MoV63 10CrMo5-5 13CrMo4-5 - 10CrMo9-10 - 15NiCuMoNb5-6-4 - X11CrMo5 - X11CrMo9-1 - X10CrMoVNb9-1
- X10CrMoVNb9-1 - X10CrWMoVNb9-2 - X20CrMoV11-1 (Former BS-DIN-AFNOR equivalent grades)
- EN 10253-1 EN 10253-2
- RCC-M: CL2 - CL3 - NC grades P265GH - P280GH - P295GH - P355NH - TU42C - AE250B1 (Other grades can be supplied upon request)

HIGH YIELD STEEL FOR PIPELINE AND OFFSHORE

- ASTM A860/MSS-SP75: WPHY 42 - WPHY 46 - WPHY 52 - WPHY 60 - WPHY 65 - WPHY 70 grades WPHY 80 only as per MSS-SP75
- EN 10208-2: L245NB - L290NB - L360NB - L415NB - L360QB - L415QB - L450QB - L485QB L555QB - L360MB - L415MB - L450MB - L485MB
- API 5L X42 - X46 - X52 - X60 - X65 - X70

CARBON AND ALLOY STEEL FOR LOW TEMPERATURE SERVICE

- ASTM / ASME A/SA 420 WPL6 - WPL3

STAINLES STEEL

- ASTM / ASME A/SA 403: WP304 - WP304L - WP304H - WP304LN - WP304N - WP316 - WP316L WP316H - WP316LN - WP316N - WP317 - WP317L - WP32
- WP321H - WP347 - WP347H - WPS31254
- RCC-M: CL1 - CL2 - CL3 grades Z2CND17.12 - Z2CN18.10 - Z2CND18.12N (Other grades can be supplied upon request)
- ASTM A774: TP304L - TP316L - TP317L - TP321 - TP347
- Equivalent grades of EN 10253-3 EN 10253-4 (Former AFNOR-DIN-BS equivalent grades)

FERRITIC/AUSTENITIC STAINLESS STEEL

- ASTM / ASME A/SA 815: UNS 31803 (duplex) - UNS 32750 (superduplex) - UNS 32760 (superduplex) UNS 32550 (superduplex) and equivalent

NICKEL ALLOY

- ASTM / ASME B/SB 366: UNS N04400 - UNS N06600 - UNS N06625 - UNS N08020 UNS N08800 - UNS N08811 - UNS N08825 - UNS N10276

COPPER ALLOY

- Copper-nickel ASTM / ASME B/SB 466: UNS C70600 (CuNi 90/10) - UNS C71500 (CuNi 70/30)

TITANIUM ALLOY

- ASTM / ASME B/SB363: WPT2 - WPT12

Manufacturing Standards

- ASME B16.9 - ASME B16.25 - MSS-SP75 - MSS-SP43
- DIN 2605 - 2606 - 2615 - 2616 - 2617 - BS 1640 - GOST 17374 - 17375 - 17376 - 17377 17378 - 17379 - 17380

Design Codes

- ASME B31.1 - ASME B31.3 - ASME B31.4 - ASME B31.8
- EN 13445 - 13480 - 12952 (Former BS PD 5500 - Swedish Ordinance AFS 1994:39)
- DIN 2413 - TRD301
- AD 2000 Merkblatt B2 - B3 - B9
- Stoomwezen Rules for Pressure Vessels

TARGET MARKETS AND CLIENTS



Tectubi Raccordi aims at offering its Clients maximum satisfaction. The company's main aim has always been focused on their needs. Close co-operation with its Clients gives the company the opportunity to keep the current status and the trends of the market with its possible evolution under control. At the same time, services rendered can comply with the latest standards. Engineering companies, covering 65% of supplies, represent the largest part of the entire capacity and influence its sales policy, which guarantees maximum quality.

The target markets in which **Tectubi Raccordi** operates can be divided into:

- Nuclear power
- Offshore & Subsea
- Oil & Gas pipelines
- Petrochemical
- Thermal power
- Stock items for all markets

Tectubi Raccordi is the only company to guarantee the full cycle of production and distribution in all these markets. The only company to adopt the concept of internationalization as the founding philosophy of its business mindset.

More than 90% of **Tectubi Raccordi's** production is for foreign countries, which makes the company an internationally-oriented company with international prospects. At the same time, having to face the daily struggle against its worldwide competitors urges the company to attain the highest quality services.

Europe holds 28% of the sales among the countries with which **Tectubi Raccordi** does business.



Large radius bend pipe manufactured by OMP-Mongiardino - Tectubi Raccordi Bending Division.



Special stainless steel Y piece. A mechanical device with technology developed by SAIPEM.

PODENZANO - HOT FORMING PRODUCTION



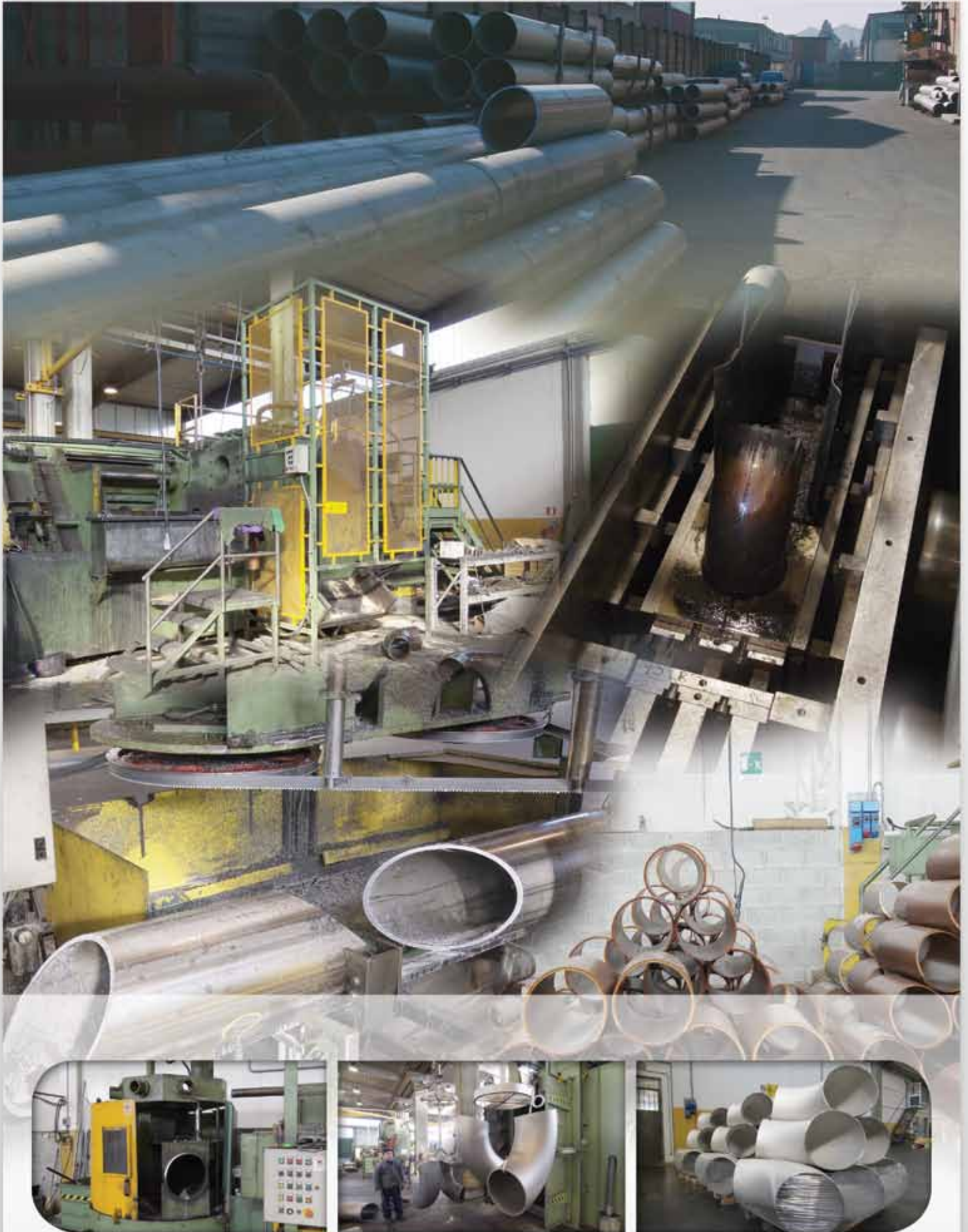
PODENZANO - COLD FORMING TEES PRODUCTION



CASTEL SAN GIOVANNI - HOT FORMING ELBOW PRODUCTION



CALENDASCO - COLD FORMING ELBOW PRODUCTION



CERTIFICATES OF APPROVAL

- ASME Quality System Certificate as a Material Organization
ASME SECTION III NCA 3800 Certificate n. QSC - 603
- NNSA - Confirmation Certificate of Foreign Organization's Registration
for Civil Nuclear Safety Equipment Activities in the People's Republic of China
- TÜV - AD 2000 - MERKBLATT W0
- ISO 9001: 2008 by LLOYD'S REGISTER
- GOST - ROSTECHNADZOR Russia

In addition to these Certifications, issued by public entities and organizations, **Tectubi Raccordi** has Approvals issued by private and public companies, such as: **Areva/EDF** for the manufacturing of mechanical components for nuclear power plants in accordance with **RCC-M** rules, **AGIP**, **APSC-Alyeska Pipeline Series Company**, **Aramco**, **Chevron**, **EIL-Engineer India Limited**, **ENEL**, **National Grid**, **Norsok**, **QS Azia Sertik**, **Škoda**, **Stavanger**, **Total**, **TransCanada**.





TECTUBI RACCORDI S.p.A.

ALLIED IN THE WORLD



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 with your smartphone



TECTUBI RACCORDI S.p.A.

Tectubi Raccordi S.p.A. is part of Allied International Group