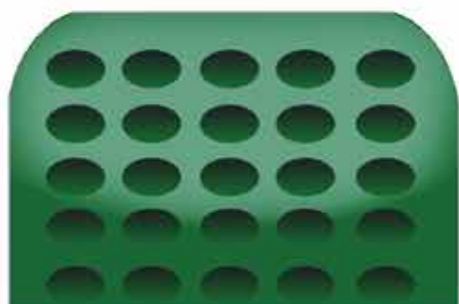


**TECTUBI RACCORDI**



**GIEMINOX**

**WELDED PIPES DIVISION**



LONGITUDINALLY WELDED  
CRA, CLAD, LINED PIPES  
& WELD OVERLAY CLADDING

# GIEMINOX - TECTUBI RACCORDI WELDED PIPES DIVISION



# Manufacturing

## Company profile

Since 1980 **Gieminox**, established in Schio, Vicenza, Italy has become a well-established manufacturer of longitudinally welded pipes, clad pipes, lined pipes, fittings and auxiliary components in stainless steel, nickel and nickel alloys, duplex and superduplex.

In 2011 **Tectubi Raccordi** incorporated **Gieminox** into **Gieminox-Tectubi Raccordi Welded Pipes Division**, thus broadening the product range through the direct production of welded pipes up to 100" and clad/lined pipes from 6" up to 100" OD in every type of steel. Since then, the company has invested in equipment such as brake presses, heat treatment furnaces, rolling/welding/turning machines, so as to guarantee the highest production standards according to the international specifications.

The company produces welded pipes up to 70 mm wall thickness and up to 12,2 meter lengths, solid CRA (Corrosion Resistant Alloy) pipes, bi-metal lined pipes, overlaid clad pipes and longitudinally metallurgically-welded clad pipes, designed to meet specific requirements in terms of mechanical and corrosion properties.

**Gieminox-Tectubi Raccordi Welded Pipes Division** serves worldwide projects in the oil&gas, chemical and petrochemical industries, power plants, mining industry, water treatment plants, engineering and construction.



## Company details

**Company Name**

GIEMINOX TECTUBI RACCORDI S.R.L.  
Welded Pipes Division

**Chamber of Commerce**

REA/VI 344108

**Registered Office**

Via Lago di Vico, 22  
36015 Schio (Vicenza), Italy

**Paid Capital**

Euro 2,000,000.00

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# GIEMINOX - TECTUBI RACCORDI WELDED PIPES DIVISION

## Products & target markets

### Longitudinally Welded Pipes

#### Manufacturing range

Outside diameter: from 3" to 100" as per ASTM/ASME/DIN standards

Wall thickness range: from 3 mm to 70 mm

Length range: up to 12,2 m

#### Materials

Stainless steel 300 series, heat resistant steels, super-austenitic alloys, nickel, nickel alloys, nickel/copper alloys, duplex, superduplex, titanium, copper-nickel.

Standard lengths supplied are 6 and 12 meters without circumferential seams.

Special option on request: up to 16 meter lengths (based on plate availability).



### Longitudinally Welded Clad Pipes

#### Manufacturing range

Outside diameter outer pipe: from 6" to 100"

Wall thickness outer pipe: from 6 mm to 70 mm

Length range: up to 12,2 m

#### Materials

Base material: carbon steel, hi-yield grades, low alloy steels.

Clad materials: SS304L, SS316L, SS317L, SS410, alloy 625, alloy 825, etc.

Metallurgically clad pipes are produced from hot roll-bonded clad plates; explosion bonded plates may be used as an alternative for fast deliveries.

Clad plates are formed into pipes and then longitudinally welded by SAW/ESW techniques.



### Bi-Metal Lined Pipes

#### Manufacturing range

Outside diameter outer pipe: from 6" to 24"

Wall thickness outer pipe: from 10 mm to 35 mm

Length range: from 2 m to 12,2 m

#### Materials

Carbon steel or high yield strength steels are used as outer pipes:

API 5L grades: X42 – X52 – X60 – X65 – X70

EEMUA grades: EP360 – EP415 – EP450 – EP485

DNV grades: 360Mpa – 415Mpa – 450Mpa – 485Mpa

CRA lined pipes can be manufactured in:

Stainless steels 300 series: 304L, 316L, 317L

Super-austenitic alloys: 6Mo, 254 SMO, 904L

Nickel alloys: Monel 400, Inconel 625 and Incoloy 825

Super-Ferritic steel: 470LI

Bi-metal/mechanically lined pipes, are manufactured by **Gieminox Tectubi Raccordi** using our in-house designed and developed process, according to API 5LD and DNV OS F-101.



### Weld Overlay Cladding

#### Manufacturing range

Outside diameter pipe: from 6" to 48"

Wall thickness outer pipe: from 6 to 70 mm

Length range: up to 12,2 m

#### Materials

The weld surfacing systems apply corrosion resistant alloys to a variety of backing materials, such as carbon manganese, low alloy steels, hi-yield grades. Overlay layer may be SS304L, SS316L, SS317L, SS410, alloy 625 and others.

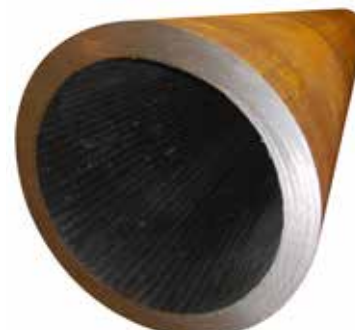
This process is proven to significantly enhance the service life of components.

#### Processes

Electroslag Strip Cladding up to 30 mm width

Automated Hot Wire GTAW

Robotized GMAW (CMT™)



The target markets in which **Gieminox Tectubi Raccordi** operates are: oil&gas, petrochemical, power, mining, water treatment.

# Manufacturing

## Materials used and related International Standards

### STAINLESS STEEL

•304/L - 304/H - 316/L - 317/L - 321/H - 347/H  
309/S - 310/S - 410/S - 904L - 254SMO - 6Mo  
253Ma - UREA grades

### DUPLEX AND SUPERDUPLEX STAINLESS STEEL

•UNS S31803 - UNS S32205 - UNS S32750  
UNS S32760 - UNS S32550 - UNS S32101

### NICKEL AND NICKEL ALLOYS

•UNS N02200 - UNS N02201 - UNS N10276  
UNS N06622 - UNS N06455 - UNS N10665  
UNS N10675  
•UNS N06600 - UNS N06601 - UNS N06617  
UNS N06625 - UNS N08825 - UNS N08800  
UNS N08810  
•UNS N08811 - UNS N08330 - UNS N08020  
UNS N08028 - UNS N08031 - UNS N06059

### TITANIUM

•UNS R50250 - UNS R50400

### COPPER-NICKEL ALLOY

•UNS C70600 (Cu/Ni 90/10)

## Design codes

•ASME B31.3 - AD 2000 Merkblatt W0  
PED 97/23/CE - API 5L/5LC/5LD - DNV OS-F101

## Manufacturing Standards

•ANSI B36.10 - B36.19 - B16.25  
•ASTM A268 - A269 - A312 - A358 - A778 - A790 - A928  
B444 - B474 - B514 - B515 - B517 - B673 - B705 - B725 - B862  
•EN 10217-5 - 10217-7 - 10296-2  
•NORSOK M630  
•API 5L/5LC/5LD  
•DNV OS-F101



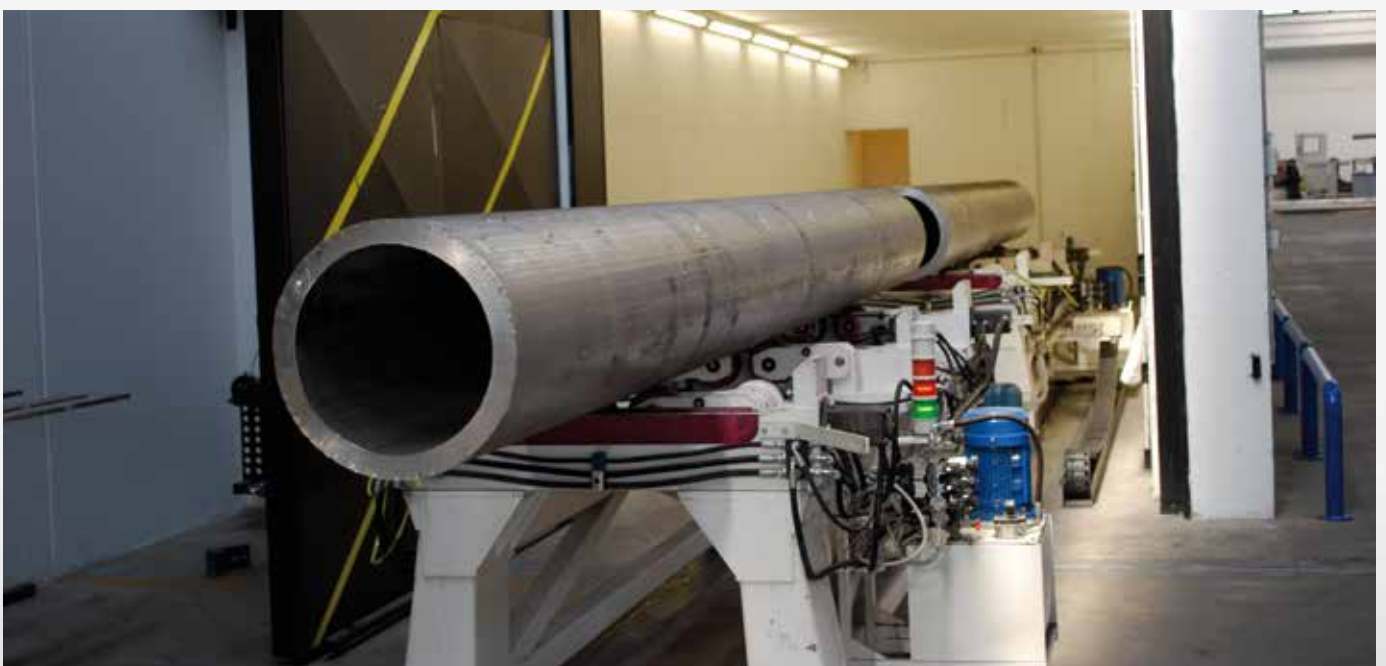
## Clad pipes

**Gieminox Tectubi Raccordi** produces a full range of clad products for the oil&gas market and, in the meantime, it is developing a new line for the power generation sectors.

Great efforts are made by the pipeline industry for the transportation of oil and gas from distant regions to the final market. Since the new fields are located in ultra-deep water, where pressures and temperatures are high and the environments very corrosive, the material has to be much more resistant. On the one hand, low-alloy carbon steels tend to be structurally adequate, but lack corrosion resistance; on the other hand, stainless steels and nickel alloys resist corrosion environments, but lack strength and are very expensive.

Pipes, bends and fittings made from metallurgically-bonded clad plates represent a good technical and economic solution to the problems arising from flowlines characterised by high pressures, temperatures and corrosion.

Effectively, in a clad pipe or fitting, the unalloyed carbon steel sustains the internal and external pressure, while the high-alloy cladding provides the corrosion protection.



# Manufacturing



## Certifications

- AD 2000 MERKBLATT W0 and PED 97/23/EC by TÜV NORD
- API Monogram licenses 5L/5LC/5LD
- CUSTOM UNION Certificate
- GOST R, Russia
- ISO 3834-2:2006 by TÜV SUD
- ISO 9001:2015 by LRQA
- NORSOK M-650
- PED 97/23/EC by TÜV NORD

In addition to these Certifications, issued by public entities and organizations, **Gieminox Tectubi Raccordi** has Approvals issued by private and public companies, such as **Petronet LNG, Saipem.**

# ALLIED IN THE WORLD



## GIEMINOX TECTUBI RACCORDI S.R.L.

### Administration and Works

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Gieminox Tectubi Raccordi S.R.L. is part of Allied International Group