

CREDITS

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Working so that energy may cross the world

In a globalized world with its ever-increasing need for energy, Allied International Group has become a reference point for excellence in the manufacture and distribution of fittings, pipes, bends, clad products and specialties for the upstream, midstream and downstream sectors of oil&gas, thermal and nuclear power generation.

The Group was founded in 2000 by two well-known business managers in the buttwelding fittings sector, Valter Alberici and Marc Herzstein, with the mission of becoming a one-stop solution partner for their clients.

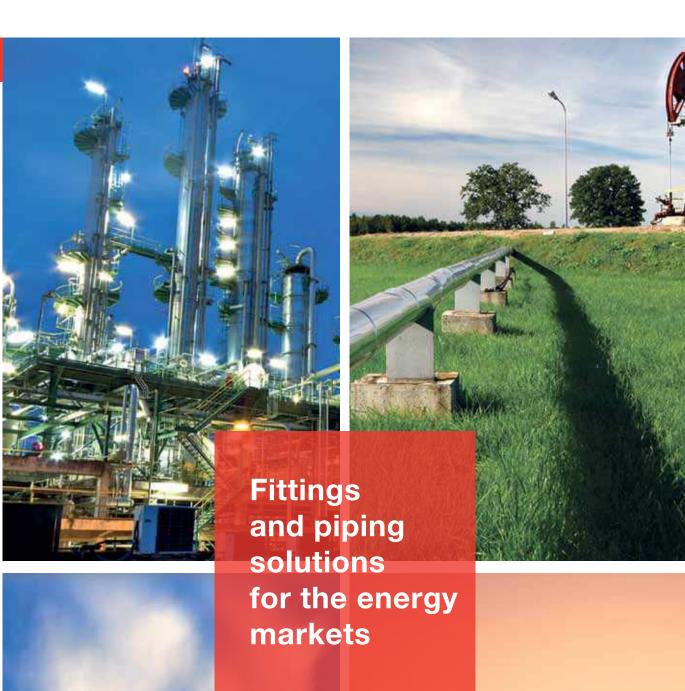
Its headquarters are in Nibbiano, Piacenza, Italy, from where the Group operates with the most accredited EPC companies in their energy generation and distribution projects, along the lines of the internationalization principle, while still maintaining unity through its shared cultural roots.

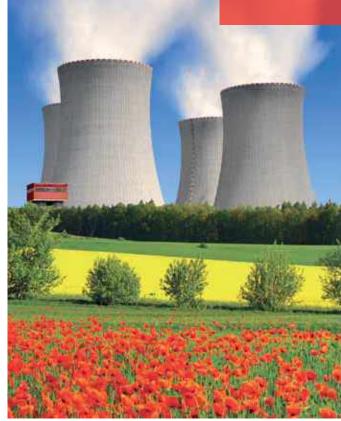
The Group's business model is characterized by complete control of the supply chain, with integrated production, stock and distribution operations. A strong market image reinforced by genuine trust has enabled very rapid growth in all areas of the world.



"Working so that energy may cross the world. Working with the passion and skills of our people. In this way even our own energy becomes strength, safety and productivity that reaches everyone. In this way even pipes and fittings can unite the world and improve quality of life."

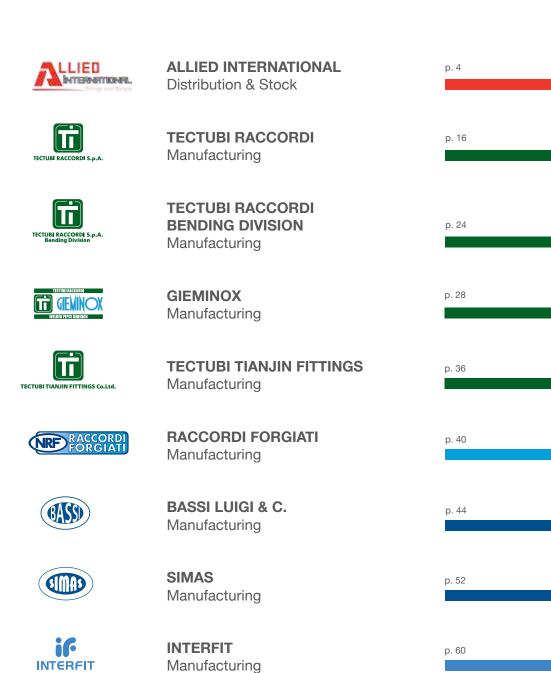
Valter Alberici and Marc Herzstein Presidents of Allied International Group







ALLIED INTERNATIONAL GROUP









ALLIED INTERNATIONAL Distribution & Stock

Company profile

Since its inception in 2000, **Allied International**, mother company and commercial arm of **Allied International Group** has become a one-stop solution and worldwide leader in distribution and stock management for all kinds of fittings, flanges, pipes, lined-clad and bored pipes, large-radius bends and special supplies for petrochemical, oil, gas and power industries for the production, transportation and transformation of energy.

The company provides a full range of products and materials, through integrated processes which allow a fast order service.

Close co-operation with clients, 50,000 items available for prompt delivery, a staff of skilled professionals and constant attention to the market trends are at the basis of the rapid growth of **Allied International** all over the world.





Company details

Company Name

ALLIED INTERNATIONAL S.R.L. FITTINGS AND FLANGES

Chamber of Commerce REA/PC 150342

Registered Office

Località Vascellino di Nibbiano 29031 Alta Val Tidone (Piacenza), Italy

Paid Capital

Euro 650,000.00

VAT No.

IT 01294450331

Sales Office & Administration

Località Vascellino di Nibbiano 29031 Alta Val Tidone (Piacenza), Italy

Warehouse

Via Emilia Pavese, 34/A Località Campo d'Oro 29015 Castel San Giovanni (Piacenza), Italy

Telephone

+39 0523 991211

Fax

+39 0523 991277

E-mail

alliedfittings@alliedfittings.com

Website

www.alliedfittings.com

ALLIED INTERNATIONAL Distribution & Stock

Products & target markets

Allied International stocks and supplies fittings, pipes, flanges and related products to world-leading EPC companies.

The company supports its clients' projects in the up/mid/downstream and power generation sectors from its headquarters in Nibbiano, Piacenza, Italy, and through the main warehouse (total area 100,000 sq m), which is part of the production/distribution facility of Castel San Giovanni (Piacenza, Italy, total surface 351,000 sq m).

Allied International's range of prompt delivery stock comprises 24,000 tonnes of carbon steel, alloy steel, stainless steel and non-ferrous alloys including equal and reducing tees, crosses, concentric and eccentric reducers, caps, 90° and 45° long radius elbows, 180° long radius return bends, 90° short radius elbows, 180° short radius return bends, lined and clad pipes in all schedules according to ANSI B36.10 and ANSI B36.19 and up to schedule XXS and over, in sizes up to 120" NPS.

The company also provides integrated services to the Group's manufacturers so as to support the efficiency of the supply chain and operations, the development of the commercial network and the constant availability of volumes, ranges and quality.

















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 - WP92

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 X10CrWMoVNb9-2X20CrMoV11-1 (former BS-DIN-AFNOR equivalent grades) EN 10253-1 - EN 10253-2

AUSTENITIC/FERRITIC STAINLESS STEEL

ASTM / ASME A/SA 815:

UNS 31803 (duplex) UNS 32750 (superduplex) UNS 32760 (superduplex) UNS 32550 (superduplex) and equivalent

CARBON AND ALLOY STEEL FOR LOW TEMPERATURE SERVICE

ASTM / ASME A/SA 420: WPL6 - WPL3

STAINLESS STEEL

ASTM / ASME A/SA 403:

WP304 WP304L - WP304H WP304LN - WP304N WP316 - WP316L - WP316H WP316LN - WP316N

WP317 - WP317L - WP321 WP321H - WP347

WP347H - WPS31254

ASTM A774:

TP304L - TP316L - TP317L TP321 - TP347 Equivalent grades of

EN 10253-3 EN 10253-4

(former AFNOR-DIN-BS equivalent grades

NICKEL ALLOY

WPT2 - WPT12

ASTM / ASME B/SB 366:

UNS N04400 - UNS N06600 UNS N06625 - UNS N08020 UNS N08800 - UNS N08811 UNS N08825 - UNS N10276 ASTM / ASME B/SB363:

HIGH YIELD STEEL FOR PIPELINE

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 (former DIN 17172

equivalent grades)

COPPER ALLOY

Copper-nickel ASTM / ASME B466: UNS C70600 (CuNi 90/10) UNS C71500 (CuNi 70/30) **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

Manufacturing **Standards**

ASME B16.9 - ASME B16.25 MSS-SP43 - MSS-SP75

DIN 2605 - 2606 - 2615 2616 - 2617 - BS 1640

GOST 17374 - 17375 17376 17377 - 17378 17379 - 17380

ALLIED INTERNATIONAL Distribution & Stock

The Allied International network

Allied International's network allows a close relationship with the clients and consists of:

 the Group's manufacturers, longstanding leaders in the fittings and piping markets: Tectubi Raccordi and Gieminox-Tectubi Raccordi Welded Pipes Division, Tectubi Raccordi Bending Division, Raccordi Forgiati, Bassi Luigi, Simas, Interfit and the Chinese factory, Tectubi Tianjin Fittings;

ALLIED INTERNATIONAL

United Kingdom

Location: head office in Grangemouth, Scotland **Target markets:** projects and EPC companies in UK.

ALLIED INTERNATIONAL

France

Location: head office in Marseille

Target markets: projects and EPC companies in France and in the Maghreb area.

ALLIED INTERNATIONAL

The Netherlands

Location: Office in Dordrecht

Target markets: EPC companies in Benelux and Germany.

ALLIED INTERNATIONAL

Southern Africa

Location: head office in Johannesburg

Target markets: projects and EPC companies in Sub Saharan Africa.

ALLIED INTERNATIONAL

South Africa

Location: head office in Johannesburg

Target markets: operating in partnership with a historical South African group, this subsidiary embraces all South African industries.

ALLIED INTERNATIONAL

Mozambique

Location: office in Maputo

Target markets: projects and EPC companies in Sub Saharan Africa.

ALLIED INTERNATIONAL

Nigeria

Location: office in Lagos

Target markets: local projects and EPC companies in Sub Saharan Africa.

ALLIED INTERNATIONAL

Ghana

Location: representative office in Accra

Target markets: local projects and EPC companies in Sub Saharan Africa.

ALLIED INTERNATIONAL

Gabon

Location: representative office in Libreville

Target markets: local projects and EPC companies in Sub Saharan Africa.

ALLIED INTERNATIONAL

Angola

Location: representative office in Luanda

Target markets: projects and EPC companies in Sub Saharan Africa.

ALLIED INTERNATIONAL

Kazakhstan

Location: office and warehouse in Aktau

Target markets: oil&gas and petrochemical plants in the Casplan and Central Asia areas.

ALLIED INTERNATIONAL

Singapore

Location: office in Singapore

Target markets: projects in Malaysia, Korea, Indonesia, Brunei, Taiwan, Thailand, Vietnam, Burma, Laos and the Philippines.

Production and distribution in UK

Strategically positioned in Grangemouth (6,700 sq m), Aberdeen (2,450 sq m) and Teesside (3,250 sq m), and with factory and warehouses close to the major complexes of refining plants, **Allied International UK** has strengthened its position particularly in the UK gas sector, where it has gained formal qualifications for buttweld fittings, flanges and coated pipes. The stock volume of 4,000 tonnes enables the company to supply packages of fittings, pipes, flanges, gaskets, studbolts and ancillary products for the gas, oil, petrochemical and offshore sectors. It is accredited to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007, and is registered in the Achilles Verify Register (Utilities Vendor Data Base) in respect of SHEQ requirements, and under FPAL to enable participation particularly in the UK offshore sector. More info available at www.alliedfittings.co.uk.

French experience in the piping and fittings business

Established in 2004 in Marseille, and with several years' staff experience in the piping and fittings business, **Allied International France** is a key hub dedicated to the development of marketing and penetration in the French market. The company is also focused on promoting business in the Maghreb countries and developing relationships with transnational EPC companies based in other countries such as UK or Japan. As well as these sales and marketing responsibilities, the staff provides support in sourcing the stock.



Allied International Sub-Saharan structure: the holding

Africa is the world's second largest and second most-populous continent; with 1.2 billion people, as of 2017, it accounts for about 16% of the world's population and hosts a large diversity of ethnicities, cultures and languages. Africa is a vast and fascinating continent of opportunities. In order to expand its worldwide network business, in 2013 **Allied International Group** founded its African holding: **Allied International Southern Africa**.

Allied International Southern Africa, located in Johannesburg, is the **Allied Group** gate to the Sub-Saharan region. Through this branch **Allied Group** governs, manages and administers its piping business in the Sub-Saharan countries embracing all energy industries. This was the first brick of **Allied Group expansion** in Africa.

Then in subsequent years, **Allied International Southern Africa** enlarged its focus and distribution network from the South-African market to the other Sub-Saharan most "energy" prominent regions within Africa, in order to develop a wide, deep and lasting presence in the continent.



Large bore stock elbows and tees for oil&gas industry

ALLIED INTERNATIONAL Distribution & Stock

Allied International Sub-Saharan structure: the other companies

In 2014 Allied International Group founded Allied International Mozambique to settle its presence on the eastern coast and in 2015 it founded Allied International Nigeria, thereby positioning Allied International Group on the western coast too. All Sub-Saharan branches (Southafrica, Mozambique, Nigeria) are fully compliant with all local rules and obligations regarding oil&gas local content national laws.

New representative offices have since been opened in Ghana, Gabon and Angola.









Seamless pipes, heavy wall elbows and large diameter elbows for the power industry









Complex systems prefabrication for oil, gas and power industry

ALLIED INTERNATIONAL Distribution & Stock

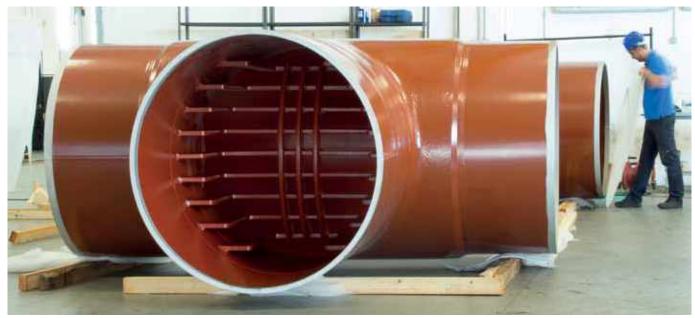
Our constant attention to environment and local needs

Allied International Group operates on the African continent with a constant attention and care to local needs, increasing the number of indigenous firms participating in the industry's supply chain of the sector, improving employment opportunities for the local workforce and supporting the creation of local value to contribute to the local economic growth.



Another important goal of Allied International Group is to approach the business in Africa in a sustainable way, creating a long-term value by taking into consideration how a given organization operates in the ecological, social and economic environment.

Business Sustainability is an Allied International Group key-word: it operate aim daily to foster the Group longevity by a constantly checking survey of different parameters such as waste management, pollution and energy efficiency as well as human rights and toward the workforce responsibility.







Large bore special tees and barred tees for oil&gas application

Caspian Allied International in Kazakhstan serving the Central Asian region

Caspian Allied International is a trading company located in Aktau, Kazakhstan with the mission to support all oil&gas projects in the Caspian area and Central Asian region through stock and distribution.

The company which opened at the end of 2010, is established on an area of 43,000 sq m with 2,000 sq m of covered area and 400 sq m of offices.

Caspian Allied International serves the oil, gas and petro-chemical industries as well as the energy and nuclear markets, supporting with a prompt delivery service all the projects implemented in the region with all kinds of piping materials and equipment.

















The warehouse

Allied International, through its main warehouse, integrates the whole cycle of raw material procurement, manufacturing and stock management on one site. The warehouse is located in Castel San Giovanni, Piacenza, Italy, on an area of 100,000 sq m and is part of the plant which also includes, on a total area of 351,000 sq m the largest and technologically advanced factory of Tectubi Raccordi.

The warehouse handles the Group's stock and makes use of modern logistic technologies in the industrial sector.

This allows Allied International to offer the client an immediate view of the whole product range, thereby guaranteeing a prompt delivery stock service.



Stock range

The stock range of 24,000 tonnes of 50,000 available items can guarantee the prompt delivery of any order, from large quantities of products to single items, mainly of the following fittings.

	Carbon steel				
	Material	Diameter	Thickness		
W	WPB, WPC, WPL6 PHY52, WPHY60, WPHY65, WPHY70	from 2" to 24" from 26" to 36" from 40" to 48" up to 72"	up to schedule 160/XXH up to 1.750" up to 1.250" schedules up to 0.725"		

,		
Material	Diameter	Thickness
WP 304/304L, 316/316L, 321	up to 24"	schedules 10/S, 40/S, 80S

Alloy steel				
Material	Diameter	Thickness		
WP5, WP9, WP11, WP22, WP91	from 2" to 12" from 14" to 24"	up to schedule 160/XXH up to schedule 80		



Certifications

- · CUSTOM UNION Certificate TRTS 32/2013
- · F4N Nuclear Certificate
- · ISO 9001:2015 by BV
- · KITEMARK F7 and L2 License
- · NATIONAL GRID T/SP/F/1 Certificate
- · NATIONAL GRID T/SP/B/12 Certificate
- · NORSOK M-650
- · ISO 14001, ISO 9001, OHSAS 18001 Certificate by LRQA

In addition to these Certifications, issued by public entities and organizations, Allied International has Approvals issued by private and public companies, such as:

Achilles, Advantica, Casale, ENI Iraq, ENI Turkmenistan, Gazprom-Vniigaz, IGDAS Turkey, IMCC Abu Dhabi, Max Streicher, ONGC, PDO, Petrobras, Petronas Malaysia, Shell.













TECTUBI RACCORDI Manufacturing

Company profile

Founded in 1954 and incorporated into Allied International Group in 2003, Tectubi Raccordi was the first Italian world-leading manufacturer of steel buttwelding pipe fittings to be used in nuclear and thermal power plants, LNG plants, oil&gas and water pipelines, offshore & subsea and petrochemical plants. It is a top supplier of superpipes for the nuclear sector.

For over half a century the company has been collaborating with the most important EPC companies, offering its products at the highest quality and manufacturing standards. Its workers' craftsmanship and experience and its technical service is key to meeting any client's request in terms of materials, design and international specifications.

During recent years, Tectubi Raccordi has developed three major facilities: in Castel San Giovanni, Piacenza, Italy; Carbonara Scrivia, Alessandria, Italy and Tianjin, China, so as to increase penetration in all target markets.



Company details

Company Name TECTUBI RACCORDI S.p.A.

Registered Office Via Roma, 150 29027 Podenzano (Piacenza), Italy

Chamber of Commerce REA/PC 157708

Paid Capital Euro 5,160,000.00

VAT No. IT 01230470997 Sales Office & Administration Via Roma, 150 29027 Podenzano (Piacenza), Italy

Plants Via Roma, 150 29027 Podenzano (Piacenza), Italy

Via Emilia Pavese, 34/A Località Campo d'Oro 29015 Castel San Giovanni (Piacenza), Italy

Via Ancona, 27 29010 Calendasco (Piacenza), Italy

Corso Genova, 4 ex S.S. 35 dei Giovi km 64 15050 Carbonara Scrivia (Alessandria), Italy

Telephone

+ 39 0523 555311

+ 39 0523 559621

E-mail

info@tectubiraccordi.com

Website

www.tectubiraccordi.com

TECTUBI RACCORDI Manufacturing

Products & target markets

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.

The target markets of Tectubi Raccordi can be divided into up/mid/downstream, which include onshore and offshore/subsea plants, oil&gas pipelines, 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 opportunity to develop the market and the products in line with trends in the field of energy.



Standard fittings

TYPE OF PRODUCT	DIMENSIONS	STEELS	EXECUTION	
THEOLINODOOL	DIMENSIONS	OTELLO	EXECUTION	
Elbows	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
Split tees	Up to 120"	All grades	Seamless and welded
"Y" pieces	Up to 120"	All grades	Seamless and welded

Special products as per customer's drawing

Materials used and related International Standards

CARBON AND ALLOY STEEL FOR ROOM, MODERATE AND ELEVATED TEMPERATURES

ASTM / ASME A/SA 106 API 5L: Gr.B - Gr.C

ASTM / ASME A/SA 335:

Gr.1 - Gr.11 - Gr.12 - Gr.5 Gr.22 - Gr.9 - Gr.91

ASTM / ASME A234: WPB WPC - WP1 - WP11 - WP12 WP5 - WP22 - WP9 - WP91 WP92

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 X10CrWMoVNb9-2 X20CrMoV11-1 and 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).

CARBON AND ALLOY STEEL FOR LOW TEMPERATURE SERVICE

ASTM / ASME A/SA 333: Gr. 6, Gr. 3, Gr. 8 and equivalent grades
ASTM / ASME A/SA 420
WPL6 - WPL3

STAINLESS STEEL

TP304 - TP304L - TP304H TP304LN - TP304N TP316 - TP316L - TP316H

ASTM / ASME A/SA 312:

TP316LN - TP316N - TP317 TP317L - TP321H - TP347 TP347H - S31254 and

equivalent grades

ASTM / ASME A/SA 403:

WP304 - WP304L - WP304H WP304LN - WP304N WP316 - WP316L - WP316H WP316LN - WP316N WP317 - WP317L - WP321 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).

COPPER ALLOY

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

TITANIUM ALLOY

ASTM / ASME B/SB363:

WPT2 - WPT12 and equivalent grades

HIGH YIELD STEEL FOR PIPELINE AND OFFSHORE

API 5L: Gr. X42 - X46 - X52 X60 - X65 - X70 - X80 **EN 10208-2:** L245NB L290NB - L360NB - L415NB L360QB - L415QB - L450QB L485QB - L555QB - L360MB L415MB - L450MB L485MB and equivalent

grades
ASTM A860/MSS-SP75:
WPHY 42 WPHY 46 - WPHY

52 - WPHY 60 - WPHY 65 WPHY 70 grades - WPHY 80 only as per MSS-SP75

AUSTENITIC/FERRITIC STAINLESS STEEL

ASTM / ASME A/SA 790:

UNS 31803 (duplex) - UNS 32750 (superduplex) UNS 32760 (superduplex) UNS 32550 (superduplex) and equivalent grades

ASTM / ASME A/SA 815: UNS 31803 (duplex)

NICKEL ALLOY

ASTM / ASME B/SB 366:

UNS N04400 - UNS N06600 UNS N06625 - UNS N08020 UNS N08800 - UNS N08811 UNS N08825 - UNS N10276 and equivalent grades.

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

Manufacturing Standards

ASME B16.9 - ASME B16.25 MSS-SP43 - MSS-SP75

DIN 2605 - 2606 - 2615 2616 - 2617 - BS 1640

GOST 17374 - 17375 17376 - 17377 - 17378 17379 - 17380





TECTUBI RACCORDI Manufacturing

Tectubi Raccordi network

Tectubi Raccordi has its headquarters and main plant in Podenzano (total area 59,000 sq m), a technologically advanced plant in Castel San Giovanni (total area 251,000 sq m) and a factory in Calendasco (total area 8,800 sq m), all in the province of Piacenza, Italy.

From December 2017, OMP-Tectubi Raccordi S.R.L. was merged by incorporation into Tectubi Raccordi S.p.A. This facility (total area 50,000 sq m) produces seamless and welded large-radius bends by hot induction and cold bending.

Other production units in Italy and in China complete the complete and increase the product range:

- Gieminox-Tectubi Raccordi Welded Pipes Division in Schio, Vicenza, Italy, which produces heavy wall welded pipes, longitudinally welded clad pipes, bi-metal lined pipes.
- Tectubi Tianjin Fittings in Tianjin, China, which produces seamless and welded elbows, seamless and welded tees, caps, barred tees and special products.







Above: the cold forming machine in the Podenzano plant for the production of tees up to 16" Below: the cold bending machine in the Calendasco plant for the production of elbows up to 16"







Above: some processing phases of large tee fittings Below: hot elbows in the large cooling tank during the heat treatment process

TECTUBI RACCORDI Manufacturing

The Tectubi Raccordi factory in Castel San Giovanni

This plant, built in recent years, is situated in Castel San Giovanni, Piacenza, Italy, and occupies an area of 251,000 sq m It 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, with a length of 66.5 m, width of 7 m and the max. working force of 1,800 tonnes, is aimed at increasing production capacity by 60%. Unique in Europe, and probably in the world, this machine is able to deform a tube of 13 meters and to 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.





The large-dimension induction mandrel and bending machine MTC 1800 installed in the factory of Castel San Giovanni. Capable of unequalled production and a wide range of performances.

Two large furnaces outside and inside the plant







Gas mandrel and bending machine MTC 450

Certifications (Bending Division included)

- · ABSA Alberta Statutory Declaration
- AD 2000 MERKBLATT W0 and HP0 by TÜV NORD
- ASME Quality System Certificate as a Material Organization ASME SECTION III NCA 3800 Certificate No. QSC - 603
- BUREAU VERITAS ISO / CEI 17025 audit attestation
- CUSTOM UNION Certificate TRTS 32/2013
- ISO 14001:2004 by SWISO
- ISO 14001: 2015 by QS International
- ISO 9001:2015 by Bureau Veritas
- KTA 1401 Areva by TÜV NORD
- NNSA Confirmation Certificate of Foreign Organization's Registration for Civil Nuclear Safety Equipment Activities in the People's Republic of China
- NORSOK M-650

- · OHSAS 18001:2007 by QS International
- PED 4.3 by Bureau Veritas

In addition to these Certifications, issued by public entities and organizations, Tectubi Raccordi has Approvals issued by private and public companies, such as: ADNOC, BP, Chevron, EDF-UTO, EIL, ENI, Gas de France, Gazprom, KNPC, KOC, National Grid, NCOC, NTPC, ONGC, Open Grid Europe, PDO, PG & E, Qatar Gas, QP, Saudi Aramco, Shell, SNAM Rete Gas, Total, TransCanada.







TECTUBI RACCORDI Bending Division

Bending division history

Tectubi Raccordi formed a newco with OMP Mongiardino in November 2009, called OMP Mongiardino-Tectubi Raccordi Bending Division. Founded in 1968, OMP Mongiardino was the first Italian company to manufacture by hot induction and cold bending large-radius elbows for oil&gas pipelines and several types of industrial or civil plant.

It has created an industrial hub in Carbonara Scrivia, Alessandria, Italy, with a total area of 50,000 sq m, and has transferred there all the equipment from the former plant in Genoa.

In April 2016 Tectubi Raccordi completed its acquisition of OMP Mongiardino and the name of the company changed to OMP-Tectubi Raccordi S.R.L.; finally, from December 2017, OMP-Tectubi Raccordi S.R.L. was merged by incorporation into Tectubi Raccordi S.p.A.

The quality management system covers the full manufacturing process, from the arrival of the mother pipes to delivery of the finished bends, and allows constant updating and traceability.





Products & target markets

Tectubi Raccordi Bending Division produces large-radius bends by hot and cold bending and clad bends. Both hot and cold bending processes 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 aluminum alloy.

The cold bending method, which originated from registered industrial patent used exclusively by the company, delivers an identical structure to that of the original tube, so the product does not need further heat treatment when the mechanical characteristics comply.

The bends are intended mostly for the oil&gas pipeline and power sectors, and can also be used for civil engineering works.

TECTUBI RACCORDI Bending Division

Cold bending

The company's patented cold bending process enables the manufacture of a wide range of products such as bends with radius exceeding 4D and angles up to 180°, with a minimal thickness reduction.

The bends can be in carbon steel, alloy steel, stainless steel, duplex and titanium, welded (SAW or ERW) or seamless, with diameters ranging from 2" to 60".









Hot bending

The company has increased its capacity with the purchase of a new induction bending machine, Schäfer SRBMI 1400. This machine enables the production of bends of diameter from 2" to 60", bending radius from 250 mm to 10,000 mm and thickness from 7 mm to 100 mm.

The machines, electronically interfaced, are provided with a control system which enables them to adapt to variations in load, while keeping control over the temperature, reducing heat losses to a minimum. The material properties are retained accordingly, even after the bending and heat treatment process, in accordance with applicable specifications.

Characteristics

MACHINE	COJAFEX PB 600	COJAFEX PB 1000	SCHÄFER SRBMI 1400
Bending radius	250 ÷ 3,050	800 ÷ 5,100	686 ÷ 10,000
	mm	mm	mm
Diameter	2" ÷ 24"	8" ÷ 36"	8" ÷ 60"
Development	5,000 mm	8,500 mm	11,500 mm
	MAX	MAX	MAX
Pipe lenght	8,400 mm	12,000 mm	15,400 mm
	MAX	MAX	MAX
Wall thickness	7,100 mm	7,100 mm	7,100 mm

Clad induction bends

Tectubi Raccordi Bending Division manufactures a wide range of clad induction bends for applications under the most demanding conditions and services. All bends with R/D<4 are offered as hot induction bends, whereas for R/D≥4, Tectubi Raccordi offers cold formed bends as an alternative to hot ones.

Certifications

Bending Division certifications are included in those of **Tectubi** Raccordi (see p. 23).













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 and lined pipes.

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 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 such as brake presses, heat treatment furnaces, rolling/welding/turning machines, so as to guarantee the highest production standards according to the international specifications and to shorten the delivery time.

The company produces welded pipes up to 70 mm wall thickness and up to 12,2 meter, lenghts.



Company details

Company Name GIEMINOX TECTUBI RACCORDI S.R.L.

Registered Office Via Lago di Vico, 22 36015 Schio (Vicenza), Italy Chamber of Commerce REA/VI 344108

Paid Capital Euro 2,000,000.00

VAT No. IT3670350242

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

Telephone + 39 0445 575959

Fax

+ 39 0445 575305

E-mail sales@gieminox.com

Website www.gieminox.com

GIEMINOX - TECTUBI RACCORDI Welded Pipes Division Manufacturing

Products and target markets

LONGITUDINALLY WELDED PIPES

MANUFACTURING RANGE

Outside diameter:

from 3" to 100" and including all non-standard sizes, 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, API 5L grades and alloy steel.

Possibility to supply fixed and random lenghts up to 12 meters. Shorter lenght supplied without a minimum quantity.



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

Mechanically lined pipes, are manufactured by **Gieminox Tectubi Raccordi** using process designed and devoloped in-house, according to API 5LD and DNV OS F-101.



LONGITUDINALLY WELDED CLAD PIPES

MANUFACTURING RANGE

Outside diameter outer pipe: starting from 6" to 100" Wall thickness outer pipe: from 10 mm to 70 mm Length range: up to 12.2 m

MATERIALS

by SAW/GTAW/PAW

techniques.

Base material: carbon steel, high-yield grades, low alloy steels. Clad materials: SS304L, SS316L, SS317L, SS410, alloy 625, alloy 825, etc.

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

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

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

CARBON AND ALLOY STEEL FOR ROOM, MODERATE AND **ELEVATED TEMPERATURES**

P5 - P9 - P11 - P91

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)

Merkblatt W0 PED 97/23/CE - API 5L/5LC/5LD - DNV OS-F101

Manufacturing Standards

Design codes

ASME B31.3 - AD 2000

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

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









GIEMINOX - TECTUBI RACCORDI Welded Pipes Division Manufacturing

Clad pipes

Gieminox Tectubi Raccordi produces a full range of clad products for oil&gas and other markets.

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 characterized by high pressures, extreme temperatures and high corrosive environments.

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.









GIEMINOX TECTUBI RACCORDI'S STRENGTHS

- Fast track delivery
- All materials
- No minimum quantity
- Compliant to all technical specifications

Gieminox Tectubi Raccordi is the ideal partner for anyone looking for a fast track delivery service, for any type of material, with no minimum quantity requirement, and in compliance with the most stringent technical specifications.



GIEMINOX - TECTUBI RACCORDI Welded Pipes Division Manufacturing

Vast experience for the nuclear industry

Thanks to partnership with **Tectubi Raccordi**, who has over 60 years of expertise in manufacturing pipes and fittings for the nuclear industry, **Gieminox** has acquired vast experience in the production for the nuclear power sector.



Leader in the production of metallurgically clad pipes

In recent years **Gieminox Tectubi Raccordi** has become one of the main suppliers of metallurgically clad pipes thanks to its experience supplying major orders of cladded pipes in various combinations of metals.











Certifications

- API Monogram licenses 5L/5LC/5LD
- · ASME U Stamp
- CUSTOM UNION Certificate TRTS 32/2013
- ISO 3834-2:2006 by TÜV SUD
- ISO 9001:2015 by Bureau Veritas
- NORSOK M-650
- PED 97/23/EC by TÜV NORD
- MARITIME DNV GL

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









TECTUBI TIANJIN FITTINGS Manufacturing

Company profile

Tectubi Tianjin Fittings in China has been founded in order, to support Chinese and South-East Asian projects. The company is located in Tianjin, in the centre of Dongli Economic and Technological Development Area (DEDA). In addition, a sales office has been opened in Beijing.

The factory, combines Italian quality and Chinese manufacturing skills. The plant, on a total surface area of 78,000 sq m, started production in 2011 of seamless and welded elbows, seamless and welded tees, caps, gauged and normal reductions, barred tees, special flow tees, equal and reducing crosses.



Company details

Company Name TECTUBI TIANJIN FITTINGS CO. LTD.

Head Office, Sales Office and Manufacturing No. 11, Liujing Rd, Developing Zone of Dong Li, Tianjin 300300, China Beijing Sales Office No. A 1905, Ocean International Center, 56 Building, Dongsihuan Zhonglu, Chaoyang District **Telephone** + 86 22 2498 5878

Fax + 86 22 2498 5610

E-mail info@tectubi.cn

Website www.tectubitianjin.com

TECTUBI TIANJIN Fittings Manufacturing

Products & target markets

Drawing on the experience of **Tectubi Raccordi**, **Tectubi Tianjin Fittings** produces welded elbows up to 66", seamless elbows up to 36", reducers, reducing tees, special items (such as barred tees and special flow tees), large thickness pieces for applications in the power sector, and non-standard fittings for nuclear power plants.

The product range allows the company to act as a one-stop solution, thus responding to the expectations of Chinese and South-East Asian EPC companies in the nuclear and thermal power, oil&gas and petrochemical sectors.

Standard fittings

TYPE OF PRODUCT	DIMENSIONS
Seamless elbows	Up to 36"
Welded elbows	Up to 66"
Seamless tees	Up to 24" starting from laminated pipe Up to 1270 mm starting from forged pipe
Welded tees	Up to 66"
Caps	Up to 66"
Ovalisation	3,5%

Special fittings

TYPE OF PRODUCT	DIMENSIONS
Seamless elbows	Up to 36"
Welded elbows	Up to 66"

Special fittings as per customer's drawing





The larger mandrel bending: 900 tons pushing capacity, elbows up to 44" and bends (3D, 5D, 7D) up to 44"

Materials used and related International Standards

CARBON AND ALLOY STEEL FOR ROOM, MODERATE AND ELEVATED TEMPERATURES

ASTM / ASME A234:

WPB - WPC - WP1 WP11 CL1
WP11 CL2 - WP11 CL3
WP12 CL1 - WP12 CL2
WP22 CL1 - WP22 CL3
WP5 - WP9 - WP91 - WP92

CARBON STEEL FOR LOW TEMPERATURE SERVICE

ASTM / ASME A/SA 420: WPL 3 - WPL6

STAINLESS STEEL

ASTM / ASME A/SA 403: WP304 - WP304H - WP304L

WP316 - WP316L - WP321 WP321H - WP347 - WP347H

AUSTENITIC/FERRITIC STAINLESS
STEEL

ASTM / ASME A/SA 815: UNS 31803 (duplex) - UNS 32750 (superduplex) HIGH YIELD STEEL FOR PIPELINE AND OFFSHORE

ASTM A860/MSS-SP75:WPHY 42 WPHY 46 - WPHY 52 - WPHY 56 - WPHY 60
WPHY 65 - WPHY 70
WPHY 80 only as
per MSS-SP75

Production equipment

Tectubi Tianjin Fittings uses for its production pipes and plates sourced locally or abroad. The company's welding procedures and the qualifications held by its welders are endorsed by Lloyd's Register. Some large capacity mandrel bending machines installed in the factory can produce elbows with a diameter up to 44" and a wall thickness of 2".

The heat treatment is carried out with equipment able to treat high-performance and high yield alloy steel. The presses, with a removable platform, produce large dimension fittings up to 66". The factory is equipped for the surface treatment of carbon steel (shot blasting) and stainless steel (pickling and passivation).





Checking of plates and precision cutting with CNC Oxy-Plasma machine. Thicknesss up to 110 mm

Certifications

- · ISO 14001: 2004 and OHSAS 18001:2007 by LRQA
- · ISO 9001: 2015 and GB/T 19001-2016 by LRQA
- PED 2014/68/EU by LRQA
- · JIS Japan Certification by JQA

In addition to these Certifications, issued by public entities and organizations, Tectubi Tianjin Fittings has Approvals issued by private and public companies, such as BHEL, CNPE, PDO, People's Republic of China pressure piping certificate, Robor South Africa.









RACCORDI FORGIATI Manufacturing

Company profile

Since its foundation in 1976, in Nibbiano, Piacenza, Italy, **Raccordi Forgiati** (total area 41,000 sq m) has been developing its position in the buttweld fittings market; in 2005, it was incorporated into **Allied International Group**. It is well-known as a manufacturer of a full range of elbows, tees, reducers and caps.

The company, with headquarters and plant in Nibbiano, Piacenza, Italy, has a yearly production capacity of 10,000 tonnes for a range of 20,000 items and is supported by a large stock of raw materials and finished products.

The main clients include global players in the oil, gas and petrochemical industrial sectors who demand different materials such as carbon steel grades featuring moderate and low temperature, high yield characteristics, alloy steel grades for elevated temperatures, austenitic and austenitic/ferritic stainless steels including duplex and superduplex, and nickel base non-ferrous alloys.



The new furnace, pressing and boring machines

Company details

Company Name RACCORDI FORGIATI S.R.L.

Registered Office Località Vascellino di Nibbiano 29031 Alta Val Tidone (Piacenza), Italy

Administration and Works

Località Casetta di Nibbiano 29031 Alta Val Tidone (Piacenza), Italy

Sales Office

Località Vascellino di Nibbiano 29031 Alta Val Tidone (Piacenza), Italy

Paid Capital Euro 300,000.00

VAT No. IT 01422090330

Telephone

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Fax

+ 39 0523 991277

E-mail

raccordiforgiati@raccordiforgiati.com

Website

www.raccordiforgiati.com

RACCORDI FORGIATI Manufacturing

Products & target markets

Raccordi Forgiati's production is mainly destined for oil&gas, offshore/subsea, petrochemical and thermal power sectors.

The company produces a full range of top quality buttwelding elbows, equal and reducing tees, concentric and eccentric reducers and caps, in the size range from 1/2" NPS to 36" NPS.

Close co-operation with clients, as well as integration with Allied International Group's factories and operations, give Raccordi Forgiati the opportunity to keep product quality constantly in line with international standards.



Standard fittings

TYPE OF PRODUCT	DIMENSIONS	STEEL	EXECUTION
Elbows	Up to 16"	All grades	Seamless and welded (hot formed)
Equal and reducing tees	Up to 30"	All grades	Seamless and welded (hot formed)
Concentric and eccentric reducers	Up to 36"	All grades	Seamless and welded (hot formed)
Caps	Up to 36"	All grades	Hot formed

Special fittings

TYPE OF PRODUCT	DIMENSIONS	STEEL	EXECUTION
Barred tees	Up to 30"	All grades	Seamless and welded (hot formed)
Special flow tees	Up to 30"	All grades	Seamless and welded
Equal and reducing crosses	Up to 30"	All grades	Seamless and welded
Laterals "Y" pieces	Up to 36"	All grades	Welded

Special fittings as per customer's drawing



Materials used and related International Standards

CARBON AND ALLOY STEEL FOR ROOM, MODERATE AND **ELEVATED TEMPERATURES**

ASTM / ASME A234:

WPR - WPC - WP1 - WP11 WP12 - WP5 - WP22 - WP9 WP91- WP92

FN 10216-2-

P195GH - P235GH - P265GH 20MnNb6 - 16Mo3 - 8MoB5-4 - 14MoV63 10CrMo5-5 13CrMo4-5 - 10CrMo9 10 15NiCuMoNb5-6-4 X11CrMo5 - X11CrMo9-1 X10CrMoVNb9-1 X10CrWMoVNb9-2 X20CrMoV11-1 (former BS-DIN-AFNOR equivalent grades) EN 10253-1 - EN 10253-2

STAINLESS STEEL

ASTM / ASME A/SA 403:

WP304 - WP304L - WP304H WP304LN - WP304N WP316 - WP316L - WP316H WP316LN - WP316N WP317 - WP317L - WP321 WP321H - WP347 - WP347H WPS31254

Equivalent grades of EN 10253-3 EN - 10253-4 (former AFNOR-DIN-BS equivalent grades)

HIGH YIELD STEEL FOR PIPELINE **AND OFFSHORE**

ASTM A860 / MSS-SP75:

WPHY 42 - WPHY 46 WPHY 52 - WPHY 56 **WPHY 60 - WPHY 65** WPHY 70 - WPHY 80 grades

EN 10208-2:

L245NB - L290NB L360NB - L415NB - L360QB L415QB - L450QB - L485QB L555QB

AUSTENITIC/FERRITIC STAINLESS STEEL

ASTM / ASME A/SA 815:

UNS 31803 (duplex) UNS 32750 (duplex) UNS 32760 (duplex) UNS 32550 (superduplex) and equivalent

TITANIUM ALLOY

ASTM / ASME B/SB363:

WPT2 - WPT12

CARBON AND ALLOY STEEL FOR LOW TEMPERATURE SERVICE

ASTM / ASME A/SA 420: WPL6 - WPL3

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/SB466:

UNS C 70600 (CuNi 90/10) UNS C 71500 (CuNi 70/30)

ALUMINUM ALLOY

ASTM B361:

3003 and 6061 grades

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 - TRD 301

AD 2000 Merkblatt B2-B3-B9

Stoomwezen rules for pressure vessels

Manufacturing **Standards**

ASMF B16.9 - ASMF B16.28 ASME B16.25 - MSS-SP75 MSS-SP43

DIN 2605 - 2606 - 2615 2616 - 2617 - BS 1640

GOST 17374 - 17375 17376 17377- 17378 - 17379 17380





Certifications

- · AD 2000 MERKBLATT W0 by TÜV NORD
- · CUSTOM UNION Certificates TRTS 32/2013
- ·ISO 9001: 2015 by Bureau Veritas
- · PED 4.3: by Bureau Veritas

· NORSOK M-650

In addition to these Certifications, issued by public entities and organizations, Raccordi Forgiati has Approvals issued by private and public companies, such as: Aramco, Gazprom-Vniigaz, Inspecta, ONGC, Repsol, Snam Rete Gas, Total.







BASSI LUIGI & C. Manufacturing

Company profile

It was after World War II that Mr. Luigi Bassi started producing the first fittings in Italy. He gained wide high experience and created many important connections in this industrial field. In 1962 he moved his activities to its current location and established his company.

The company has progressively extended its range of activity and has achieved a worldwide leading position and a high degree of specialization, which characterizes its overall production. Part of an international group of companies, over the course of the years Bassi Luigi & C. has been granted the most important certifications to work in the power generation, oil&gas, offshore and nuclear plant industries.

Technological innovation at Bassi Luigi & C. matches its with long experience across production processes and people play a leading role in facing the most demanding challenges. This synergy is the company's strength and characterizes its whole production.



Company details

Company name Bassi Luigi & C. SpA

Registered Office Via Luigi Bassi 8, 26865 San Rocco al Porto (Lodi), Italy

Administration and Works Via Luigi Bassi 8, 26865 San Rocco al Porto (Lodi), Italy

Chamber of Commerce REA LO/ 593412

Paid Capital Euro 7,000,000

VAT No. IT00839520152 **Telephone** +39 0377 454300

Fax +39 0377 569371

E-mail info@bassiluigi.com

Website https://www.bassiluigi.com

BASSI LUIGI & C. Manufacturing

Products & target markets

Butt welding fittings: Bassi Luigi & C. S.p.A. is a world leader and one of the historical manufacturers of BW fittings. In recent years the company have invested in innovation and new technologies in order to ensure a wider range of products and services to customers.

For this reason, Bassi Luigi can supply fittings according to the most stringent norms /calculation codes and technical prescriptions.

Its experienced staff is nowadays fundamental for closer working and partnership with the world's most important EPC companies and end users.



Prefabrication: besides the manufacturing of joints and loose components, the company has expanded its activities in assembling components in the factory. These complex prefabricated products add a higher value to the range of production, increase the quality of construction and assure cost effective solutions. This prefabricated process enables the realization of important projects.

Clad pipes and fittings: Bassi Lugi has been operating in the field of clad piping manufacturing for more than 20 years. Thanks to this experience we have developed and improved our manufacturing systems and experiences.

Application processes: the selection methods depend on the sizes, wall thicknesses and materials involved.

Titanium Application: the needs to build new plants in environments requiring more resistant and anticorrosion material led to the company developing the application of titanium.

Bassi Luigi production is mainly destined for the following sectors: power generation, off-shore, oil&gas, petrochemical.

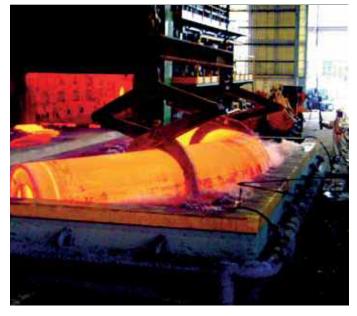


Fittings

TYPE OF PRODUCT	DIMENSIONS	MATERIAL
Equal and reducing tees	Up to 120"	All grades
LR/ SR elbows	Up to 120"	All grades
Barred sphere tees	Up to 120"	All grades
Bull heads	Up to 120"	All grades
Concentric and eccentric reducers	Up to 120"	All grades
Caps and crosses	Up to 120"	All grades

Prefabrication

TYPE OF PRODUCT	DIMENSIONS	THICKNESS	WEIGHT
Slug catchers (Finger type)	Up to 120"	max 190 mm	approx. 6000 tonnes
Slug catchers (Vessel type)	Up to 195"	max 190 mm	max 190 tonnes
Headers and manifolds	Up to 120"	up to 180 mm	
Pipe spools	Up to 120"	up to 180 mm	
Scraper traps (launching & receiving)	From 150 to 2500 lbs and further with special pressure		





Special production

TYPE OF PRODUCT	CHARACTERISTICS
Titanium application	Excellent strength, corrosion resistance to seawater, ductile and malleable when heated
Norsok Certification	Fittings in Duplex, Super-duplex and 6Mo according to Norsok M-650 Edition 4 approval

Application processes

Clad pipes and fittings	Cladding of pipes and piping components through welding overlay process (Ni alloy, Austenitic steel, Stellite)	Cladded fittings starting from clad plate/ pipes process (Ni alloy, Austenitic steel, Stellite)
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BASSI LUIGI & C. Manufacturing













Engineering

Bassi Luigi has long experience in piping systems and slug catcher design, thanks to its dedicated engineering team .

Mechanical design

- Wall thickness calculation as per international codes or client special requests
- Stress Analysis and Finite Element Analysis
- Interaction with other suppliers of the same project using PDMS or similar software.

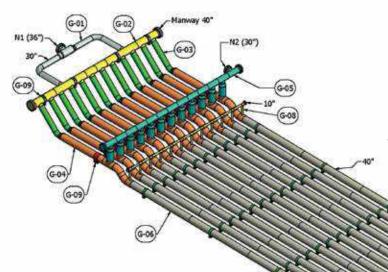
Welding Engineering

- Review of welding requirements
- Planning and managing of welding qualification & welding book
- Research & Development in new welding processes and new welding consumable materials

Process Design

- Preliminary calculation of the dimensions of the section and length of the pipes, first using chemical analysis and the physical parameters of the "wet gas".
- Measurement of the level of corrosion by the fluid in order to optimise the pipe wall thickness or to propose the type of internal cladding.
- Use of Computational Fluid Dynamics (CFD) to obtain a functional forecast of fluid flows through the inside of the pipes, using mathematical modelling, numerical methods and software tools.

The main purpose is to enable scientists and engineers to perform "numerical experiments" (i.e. computer simulations) in a "virtual flow laboratory".



Here below and on the front page, various examples of slug catchers made by Bassi Luigi: above, a typical 3D model of a finger type slug catcher





BASSI LUIGI & C. Manufacturing















Materials used and related International Standards

CARBON AND ALLOY STEEL FOR ROOM, MODERATE AND ELEVATED TEMPERATURES

ASTM / ASME A/SA 106 API 5L:

Gr.B - Gr.C **ASTM / ASME A/SA 335:** Gr.1 - Gr.11- Gr.12 - Gr.5 Gr.22 - Gr.9 - Gr.91- Gr.92

ASTM / ASME A234: WPB - WPC

WP1 - WP11 - WP12 - WP5 WP22 - WP9 - WP91 - WP92

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

X10CrWMoVNb9-2 X20CrMoV11-1 and equivalent grades

EN 10253-1 EN 10253-2 (other grades can be supplied upon request).

CARBON AND ALLOY STEEL FOR LOW TEMPERATURE SERVICE

ASTM / ASME A/SA 333: Gr. 6, Gr. 3, Gr. 8 and equivalent grades ASTM / ASME A/SA 420 WPL6 WPL3.

STAINLESS STEEL

grades

ASTM / ASME A/SA 312: TP304 - TP304L - TP304H TP304LN TP304N - TP316 TP316L - TP316H TP316LN TP316N - TP317 - TP317L TP321H - TP347 - TP347H S31254 and equivalent

ASTM / ASME A/SA 403: WP304 - WP304L - WP304H WP304LN - WP304N WP316 - WP316L WP316H - WP316LN WP316N - WP317 - WP317L WP321 - WP321H - WP347 WP347H - WPS31254 (other grades can be supplied

ASTM A774: TP304L
TP316L TP317L TP321
TP347
Equivalent grades of EN
10253-3 EN 10253-4 (former
AFNOR-DIN-BS equivalent

upon request)

grades).

HIGH YIELD STEEL FOR PIPELINE AND OFFSHORE

API 5L: Gr. X42 - X46 - X52 X60 - X65 - X70 - X80 EN 10208-2: L245NB L290NB - L360NB - L415NB L360QB - L415QB - L450QB L485QB - L555QB - L360MB L415MB - L450MB L485MB and equivalent grades

ASTM A860/MSS-SP75: WPHY 42 WPHY 46 - WPHY 52 - WPHY 60 - WPHY 65 -WPHY 70 grades WPHY 80 only as per MSS-SP75

AUSTENITIC/FERRITIC STAINLESS STEEL

ASTM / ASME A/SA 790: UNS 31803 (duplex) - UNS 32750 (superduplex) UNS 32760 (superduplex) UNS 32550 (superduplex) and equivalent grades ASTM / ASME A/SA 815: UNS 31803 (duplex)

NICKEL ALLOY

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

and equivalent grades.

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

MSS - SP-75

Manufacturing Standards

ASME B16.9 - ASME B16.25 MSS-SP43 - MSS-SP75

DIN 2605 - 2606 - 2615 2616 - 2617 - BS 1640

GOST 17374 - 17375 17376 - 17377 - 17378 17379 - 17380

FN 10253

ISO 15590

BS/EN 14870

Certifications

NORSOK M-650 Edition 4

·ISO/TS 29001- 2010 by Afnor

·DIN EN ISO 3834-2 by TÜV Nord

·ISO 14001:2015 by Afnor

·ISO 9001:2015 by Afnor

·PED 2014 - 68 by TÜV Nord

·OHSAS BS 18001 by Afnor

In addition to these Certifications, issued by public entities and organizations, **Bassi Luigi** has Approvals issued by private and public companies, such as: **ADNOC**, **Aramco**, **BP**, **ENI**, **Exxon**, **GE**, **Italgas**, **KNPC**, **KOC**, **Kvaerner**, **National Grid**, **Saipem**, **Snam Rete Gas**, **Statoil**, **Total**, **TransCanada**.







SIMAS Manufacturing

Company profile

The acquisition of Bassi Luigi & C. by the Allied Group during 2018 naturally involved also SIMAS S.p.A., an experienced manufacturer founded in 1963, located in Prezzate di Mapello (Bergamo, Italy) which in 1994 entered the Bassi Group following the complete acquisition of the former B.G. Metallurgica Bergamasca.

SIMAS is specialized in the production of a wide range of large-radius bends cladding, pressure vessels, heat exchangers, and in prefabrication. In particular many ranges of special pieces are destined for oil&gas such as prefabricated pipes in all types of material grades, large-radius bends in all sizes up to 60" diameter (produced from bended pipe by electrical induction - 3D, 5D, 7D, 10D), receiving and launching traps with patented quick closures, extrusions on manifolds. Cladding services for pipes and bends are fully in line with requests from clients to upgrade the product performances in several applications.

Last but not least, the company produces pressure reactors for desulphurisation plants, tubular reactors for polypropylene and polyethylene plants, jacketed reactors/semipipe heating, high pressure separators, shell and tubes heat exchangers, pressure vessels, distillation and fractionation columns for the petrochemical sector, while the thermotechnical sector is served with low and medium pressure water pre-heaters, superheaters and tubular refrigerants.

SIMAS occupies an area of 45,000 sq m (15,000 sq m covered), employs 60 people and has a yearly capacity of 10,000 tonnes of finished products.



Company details

Company name SIMAS SpA

Registered Office and Administration Via Luigi Bassi 8 26865 San Rocco al Porto (Lodi), Italy

Works Via Dante Alighieri 16, 24030 Prezzate di Mapello (Bergamo), Italy

Chamber of Commerce REA/MI 1417637

Paid Capital Euro 1,000,000

VAT No. IT10916000150 Telephone +39 035 4655400

Fax +39 035 909430

F-mail info@simas.net

Website https://www.simas.net

SIMAS Manufacturing

Products & target markets

Bends: SIMAS' aim is to provide high quality bending solutions for oil&gas pipelines, either onshore or offshore. The manufacturing and testing procedures exceed all quality standards required by the oil&gas industry through the use of state-of-the-art technology that enables full control of the bending process, as well as total monitoring of bending parameters.

Bending capabilities

PIP	E DIMENSION	
Max. dia.	60"	
Min. dia.	2"	
W.t.	From 6 mm to 150 mm	
Max. length	14900 mm	
BENDING RADIUS		
Min.	100 mm	
Max.	10500 mm	
BENDING ANGLE		
Max.	182°	





Prefabrication: thanks to more than 50 years' of experience, **SIMAS** is one of the main players in the design, fabrication and inspection of pressure vessels and heat exchangers for oil&gas, refinery and petrochemical plants. **SIMAS** is an authorized holder of PP, S, U and U2 stamps for manufacturing pressure vessels and it is also certified by TÜV NORD for the manufacturing of such products according to standard DIN EN ISO 3834-2 and AD-2000 Merkblatt HP0. **SIMAS** policy is to focus on the most demanding jobs, working on heavy wall products and special materials.

Cladding of pipes and straight pipes: SIMAS has been operating in the field of clad piping manufacturing and fabrication for more than 20 years. Thanks to this experience, we have developed and improved our manufacturing systems and experiences. Our different experience has enabled us to support clients' requests and their even more challenging needs.

All **SIMAS** products and services are destined for the oil&gas, petrochemical, power generation and offshore sectors.

Bends

TYPE OF PRODUCT	DIAMETER	THICKNESS	MATERIALS
Induction bends	From 2" up to 60"	From 6 mm to 150 mm	Carbon steel, Micro Alloyed steel, High strength steel, Stainless steel, Low & High Alloy steel, Duplex and Superduplex, Titanium, Inconel, Hastelloy, Incoloy.

Piping Prefabrication

TYPE OF PRODUCT	DIAMETER	THICKNESS	MATERIALS
Spools for thermal, and nuclear power stations, offshore platforms etc.	From 2" up to 60"	From 6 mm to 150 mm	Carbon steel, Micro Alloyed steel, High strength steel, Stainless steel, Low & High Alloy steel, Duplex and Superduplex, Titanium, Inconel, Hastelloy, Incoloy, Clad.

Cladding service

TYPE OF PRODUCT	DIAMETER	BASE MATERIAL	CLADDING MATERIAL
Cladding by hot wire TIG	Min. ID 115 mm Max OD 914,4 mm	Carbon steel , Low temperature Carbon steel , High yield strength (up to X-70); Alloy steels (P11, P22);	Inconel 625; Incoloy 825; AISI: 316L, 317L, 321 & 347; Hastelloy C276 & C2000; Stellite 6

Heat exchangers/ Pressure vessels

TYPE OF PRODUCT	DIAMETER	THICKNESS	WEIGHT
Pressure vessels	Up to 195"	Max 180 mm	Max 190 tons
Heat exchangers	Up to 195"	Max 180 mm	Max 150 tons

Scraper traps

TYPE OF PRODUCT	DIAMETER	QUALITY MATERIALS	CERTIFICATIONS
Pig launcher and receivers	from150 lbs to1500 lbs	From API 5L X42 to API 5L X70	ASME stamps

Titanium

TYPE OF PRODUCT	DESCRIPTION
Induction bends, spool, prefabrication	In order to develop the application of titanium with characteristics of anti-corrosion and high resistance, we dedicated a special area "the cleanroom" in our workshop for this specific working process



SIMAS Manufacturing

Cladding

Cladding is a fundamental process in the manufacturing industry and it is applied across the whole spectrum of applications, from the oil&gas industries to petrochemical, nuclear and steelmaking.

Cladding is required to provide corrosion resistance against highly severe corrosive service fluid.

To this end and to serve increasing demand for clad products, **SIMAS** is now specialized in weld overlay using GTAW hot wire automatic process and our manufacturing program covers sizes over 115 mm (inside diameter) and length up to 12 m.

SIMAS is also able to offer a complete product to its clients including the induction bending service for clad pipe, heat treatment in our API 6A certified furnace and spool fabrication including hydro-testing and packing into crates or containers for easy transport worldwide. Finally **SIMAS** has the right to use the API 5LD monogram and works in accordance with API Q1.











SIMAS has gained a good reputation with national and foreign customers all over the world, and many of its bends have been used successfully in their projects











SIMAS Manufacturing

SIMAS is able to manufacture prefabricated items for the most extended applications, manufactured in accordance with the official national and international code standard









Materials used and related International Standards

CARBON AND ALLOY STEEL FOR ROOM, MODERATE AND **ELEVATED TEMPERATURES**

ASTM / ASME A/SA 106 API 5L: Gr.B - Gr.C ASTM / ASME A/SA 335: Gr.1 - Gr.11 - Gr.12 - Gr.5 Gr.22 - Gr.9 - Gr.91 - Gr.92

CLAD: CS+INCONEL - CS+INOX CS+HASTELLOY

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 X10CrWMoVNb9-2 X20CrMoV11-1 and equivalent grades

P355NH (other grades can be supplied upon request).

P265GH - P280GH - P295GH

CARBON AND ALLOY STEEL FOR LOW TEMPERATURE SERVICE

ASTM / ASME A/SA 333: Gr. 6. Gr. 3. Gr. 8 and equivalent grades.

STAINLESS STEEL

ASTM / ASME A/SA 312: TP304 - TP304L - TP304H TP304LN - TP304N TP316 - TP316L - TP316H TP316LN - TP316N - TP317 TP317L - TP321H - TP347 TP347H - S31254 and equivalent grades.

TITANIUM ALLOY

ASTM / ASME B/SB862: and equivalent grades ASTM / ASME B/SB861: Gr. 1-2-12.

HIGH YIELD STEEL FOR PIPELINE AND OFFSHORE

API 5L: Gr. X42 - X46 - X52 X60 - X65 - X70 - X80 EN 10208-2: L245NB L290NB - L360NB - L415NB L360QB - L415QB - L450QB L485QB - L555QB - L360MB L415MB - L450MB -L485MB and equivalent grades.

AUSTENITIC/FERRITIC STAINLESS STEEL

ASTM / ASME A/SA 790: UNS 31803 (duplex) - UNS 32750 (superduplex) UNS 32760 (superduplex) UNS 32550 (superduplex) and equivalent grades.

NICKEL ALLOY

UNS N04400 - UNS N06600 UNS N06625 - UNS N08020 UNS N08800 - UNS N08811 UNS N08825 - UNS N10276 and equivalent grades.

Design codes

ASME B31.1 - ASME B31.3 ASME B31.4 - ASME B31.8

AD 2000 Merkblatt W0 - HP0

STOOMWEZEN rules

DIN EN ISO 3834-2

Manufacturing **Standards**

ISO 15590-1 DNVGL-ST-F101 **ASME B16:49** NORSOK M630 SHELL DEP specifications **CHEVRON** specifications **ARAMCO** specifications TOTAL GS specifications BP specifications **EXXONMOBIL** specifications MSS SP-75, PFI-ES-24



Certifications

- ·ISO 9001: 2015 by Bureau Veritas
- · ASME Stamp authorizations U, U2, S, PP
- · AD2000 Merkblatt W0 & PED 2014/68/EU by TÜV Nord
- · DIN EN ISO 3834-2 by TÜV Nord
- ·ISO 14001: 2004 by Afnor
- ·OHSAS 18001:2007 by Afnor
- · API 5LD & Q1

In addition to these Certifications, issued by public entities and organizations, SIMAS has Approvals issued by private and public companies, such as: Aramco, BP, Chevron, Exxon, FMC, KNPC, Kvaerner, Saipem, Shell, Snam Rete Gas, Statoil, Technip, Total, TransCanada.







INTERFIT Manufacturing

Company profile

Interfit S.A.S., which has been part of **Allied International Group** since 2018, is located in Maubeuge, France, at the heart of the historical steel & tube industrial area, close to Paris and to the international port of Antwerp.

Interfit has been manufacturing and selling seamless buttweld elbows on carbon steel for over 60 years.

Thanks to its automated production line, a new furnace and an advanced in-house laboratory, **Interfit** can supply top quality products to meet any specifications, in full compliance with safety and environmental standards. Its Quality Manual sets out the full control system of the plant along with related procedures and instructions, in accordance with the requirements of ISO 9002, API Spec Q1 and other international standards. Every enquiry and order is managed in accordance with the Quality Manual.

Production, inspection and tests (both destructive and non-destructive) are defined and run by a controlled sequence of operations and information, with constant feedback to the data base for process control.





Company details

Company name INTERFIT Sas

Head Office and Factory Avenue Joseph Cugnot Z.I. de Grévaux-les-Guides BP 132 59602 Maubeuge Cedex, France **Chamber of Commerce** RCS Valenciennes 331 408 591

Paid Capital Euro 6,612.00

VAT No. FR 5331408591

Telephone +33 03 2769 1100 **Fax** +33 03 2769 1194

E-mail info@interfit.fr

Website https://www.interfit.fr

INTERFIT Manufacturing

Products & target markets

Seamless elbows up to 30" OD are designed and manufactured to meet the requirements of three major challenging sectors: oil&gas (mid/downstream, such as refineries, petrochemical plants, processing units, FPSO), power generation (boilers, steam piping) and Industry.

The Interfit butt-weld elbows are used in many varied applications

- Oil&Gas transportation
- Refining & Distribution
- Terminal construction
- Offshore exploration
- Platform production
- Chemical & Petrochemical

- Cold & Hot Water
- Steam generation
- Industrial gases
- Furnace building
- Ship building
- Food industry



Premium raw material

Seamless elbows are manufactured exclusively from premium pipe sourced in western Europe. Pipes are stored in segregated lots to ensure optimum traceability conditions during the manufacturing process.

Interfit provides full traceability of the product, right from the pipe sourcing to the full set of certificates, through each step of the manufacturing and testing process, in line with its company policy and warranty and benefiting each customer to the full.





Guaranteed traceability

Traceability of the product is guaranteed by die stamping with identification and other information including the manufacturing trade mark as required by the standard. Careful packaging in cartons or on pallets and an advanced system of production control permitting a fast rotation of all the products of the complete range, ensure the best service to Interfit's customers.

A fully integrated production process









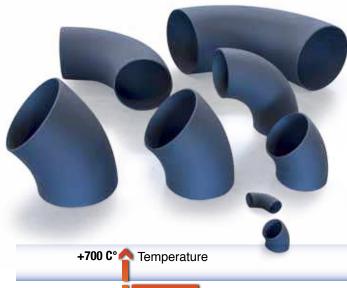








Product range



ELBOWS

Outside diameter: from 21.3 mm (1/2") to 762 mm (30")

Wall thickness: up to sch. XXS/160

Materials: Standards EN 10253-2 - S235 P235GH - P265GH - P265NL and ASTM A234. WPB, WPC/ A420 WPL6, WPL3/ A860 WPHY52/ ASTM A234 WP11, WP22, WP5, WP9 - 16Mo3

Shape: 45°, 90° and 180°. Short radius, long radius and/ or 5D

Other dimensions available upon request.

INTERFIT ELBOWS GRADES

WP9 WP5 **WP22** WP11 16Mo3 \$235/P235 WPB/P265GH o C° WPL6/P265NL WPL3 -200 C°

WPHY 52 +700

Yield strength (MPa)²

Certifications

- ·ISO 9001:2015 by Afnor
- ·ISO 14001:2015 by Afnor
- · QM System EN 764-5 and AD 2000 Merkblatt W0 by TÜV Rheinland
- ·OHSAS 18001:2007 by Afnor

In addition to these Certifications, issued by public entities and organizations, INTERFIT has Approvals issued by private and public companies, such as: ADNOC, ARAMCO, Chevron, CRN, Exxon Mobil, KNPC, OXY, PDO, Repsol, Total.

THE ALLIED GROUP

Allied International Group

Commercial division

Allied International S.R.L.

- Head Office in Nibbiano, Alta Val Tidone, Piacenza, Italy
- Warehouse in Castel San Giovanni, Piacenza, Italy*

Allied International France S.a.r.l.

· Commercial Office in Marseille, France

Allied International UK Ltd.

- Office, Plant and Warehouse in Grangemouth, Falkirk, Scotland*
- Office and Warehouse in Aberdeen, Scotland*
- Office and Warehouse in Teesside, England*

Allied The Netherlands BV

• Commercial Office in Dordrecht, The Netherlands

Caspian Allied International Too

Office and Warehouse in Aktau, Kazakhstan*

Allied Fittings Asia Pacific Pte. Ltd.

Commercial Office in Singapore

Allied Pipes and Fittings Southern Africa Ltd.

· Commercial office in Johannesburg, South Africa

Allied South Africa Ltd.

• Head Office in Johannesburg, South Africa

Allied Pipes & Fittings Nigeria Ltd.

· Commercial Office in Lagos, Nigeria

Allied Internacional Lda

• Commercial Office in Maputo, Mozambique

Representative Offices

- Libreville, Gabon Luanda, Angola
- · Accra, Ghana

Manufacturing division

Tectubi Raccordi S.p.A.

- Head Office, Plant and Warehouse in Podenzano, Piacenza, Italy*
- Office and plant in Castel San Giovanni, Piacenzay Italy*
- Plant in Calendasco, Piacenza, Italy
- Office, Plant and Warehouse in Carbonara Scrivia, Alessandria, Italy*

Tectubi Tianjin Fittings Co. Ltd.

- Head Office, Plant and Warehouse in Tianjin, China*
- · Commercial Office in Beijing, China

Gieminox Tectubi Raccordi S.R.L.

Tectubi Raccordi Welded Pipes Division

Head Office, Plant and Warehouse in Schio, Vicenza, Italy *

Raccordi Forgiati S.R.L.

• Office and Plant in Nibbiano, Alta Val Tidone, Piacenza, Italy

Bassi Luigi & C. S.p.A.

 Head office, Plant and Warehouse in San Rocco al Porto, Lodi, Italy*

SIMAS S.p.A.

- Head office, Plant and Warehouse in Prezzate Mapello, Bergamo, Italy*
- Elkrom Division Railway automation systems
 Office in Genova, Italy

Interfit S.A.S.

 Head office, Plant and Warehouse in Maubeuge Cedex, France*

Allied Group North America

(Allied Fitting, Allied Stainless, Warren Valve, Tectubi Raccordi, Trilad, Ezeflow, Flowline)

U.S.A

- North American Headquarters and Warehouse in Houston, Texas*
- Offices and Warehouses in Atlanta, Georgia* Charlotte, North Carolina* - Cincinnati, Ohio* - Dayton, New Jersey* Denver, Colorado* - Mira Loma, California* - Vancouver, Washington* Missouri City, Texas*

CANADA

Offices and Warehouses in Edmonton, Alberta* - Montreal,
 Quebec* - Toronto, Ontario*

^{*} Facilities with Warehouse



ALLIED IN THE WORLD



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