



**HOT INDUCTION BENDING
WELD-OVERLAY OF MOTHER PIPES & PIPES
PIPING SPOOLS, PRESSURE VESSELS**



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

Chamber of Commerce
REA/MI 1417637

Telephone
+39 035 4655400

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

Paid Capital
Euro 1,000,000

Fax
+39 035 909430

VAT No.
IT10916000150

E-mail
info@simas.net

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

Website
<https://www.simas.net>

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

| PIPE 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 | from 150 lbs to 1500 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 |



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 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

P265GH - P280GH - P295GH

P355NH (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.

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** .

ALLIED IN THE WORLD



ALLIED GROUP

The fitting choice worldwide

SIMAS S.P.A.

Head Office

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

Tel. + 39 035 909078 – Fax +39 035 909430

info@simas.net – www.simas.net



SIMAS S.p.A. is part of Allied International Group