



**MARCEGAGLIA
SPECIALTIES**

FORLÌ PLANT

MARCEGAGLIA GROUP

OUR NUMBERS

MARCEGAGLIA IS A MAJOR PLAYER ON THE INTERNATIONAL STEEL SCENE THAT OFFERS CONSTANT GROWTH AND HIGH-QUALITY PRODUCTS AND PROCESSES, CONTRIBUTING SIGNIFICANT ADDED VALUE TO THE MARKET WHILE MAINTAINING A STRONG FOCUS ON SUSTAINABILITY.

1st ■ PLAYER IN STEEL PROCESSING SECTOR IN THE WORLD

■ PRODUCER OF STAINLESS STEEL WELDED TUBES IN THE WORLD

■ PRODUCER OF CARBON STEEL WELDED TUBES IN EUROPE

■ SERVICE CENTER IN ITALY

6.5

MILLION TONNES OF FINISHED PRODUCT

9.0

BILLION EUROS IN TURNOVER

7,500

EMPLOYEES

36

PLANTS ACROSS 4 CONTINENTS

15,000

CUSTOMERS



FLEXIBLE SOUL

INDEPENDENCE, DYNAMISM, AGILITY, RESPONSIVENESS, RESILIENCE AND SUSTAINABILITY ARE THE KEY ELEMENTS OF MARCEGAGLIA CORPORATE CULTURE:

FACTORS THAT HAVE HELPED MAKE THE COMPANY THE MAIN POINT OF REFERENCE FOR STEEL PROCESSING BOTH IN ITALY AND ABROAD.

MARCEGAGLIA IS ABLE TO SUCCESSFULLY OPERATE, EVEN GIVEN THE MOST DIFFICULT MARKETS AND GEOPOLITICAL CONDITIONS, THANKS TO INDUSTRIAL SYNERGIES, ECONOMIES OF SCALE AND THE DIVERSIFICATION OF PRODUCTION AND SUPPLY.

GROUP CULTURE FOCUSES ON THE ROLE OF PEOPLE AND ON SHARING SPECIFIC VALUES, WHICH HAVE BECOME THE CORNERSTONES OF ITS BUSINESS MODEL.

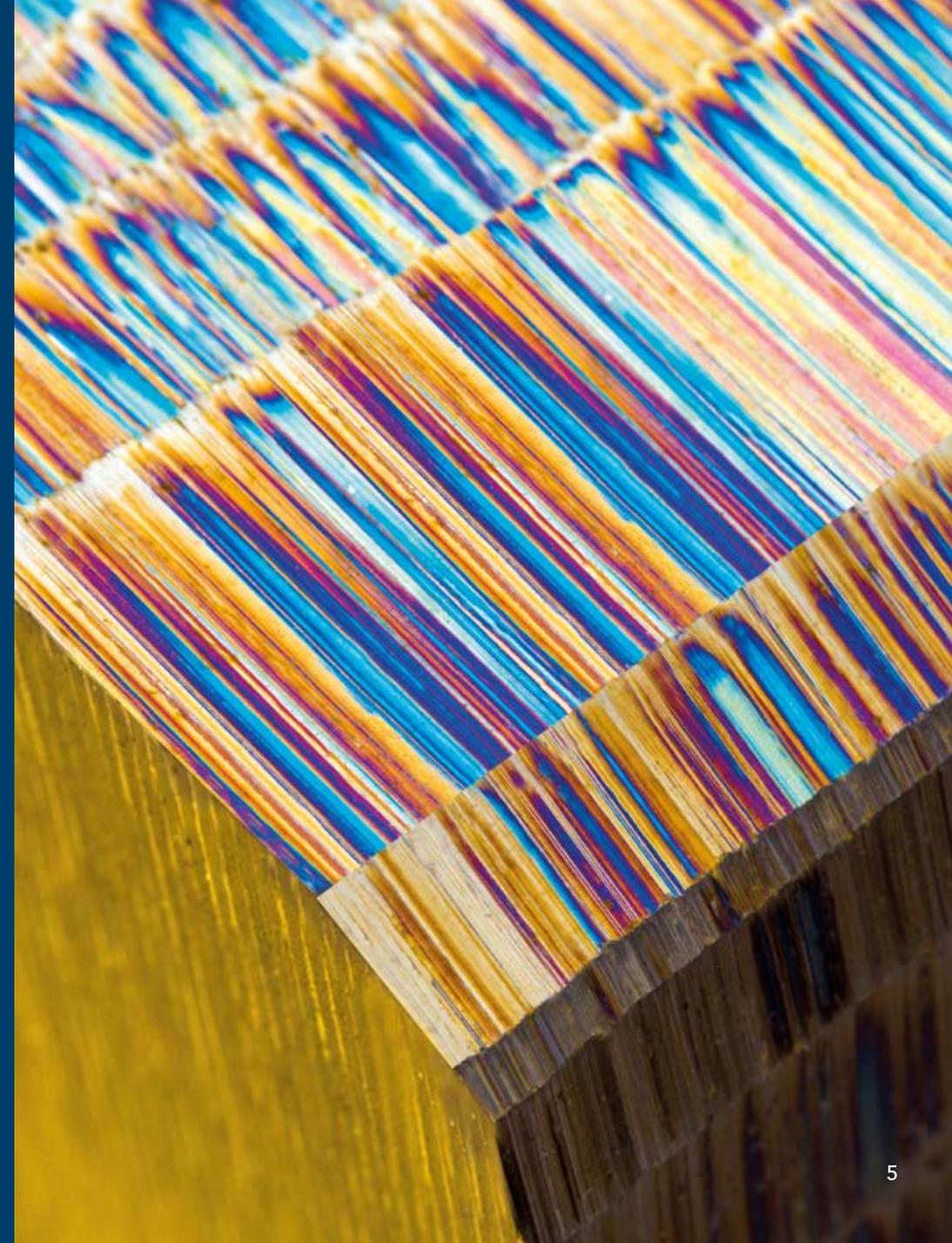


UNIQUE POSITIONING

MARCEGAGLIA IS PRESENT THROUGHOUT THE STEEL VALUE CHAIN, BOTH HORIZONTALLY AND VERTICALLY, THANKS TO ITS UNIQUE STRATEGIC POSITIONING.

THE GROUP IS THE WORLD'S LEADING INDEPENDENT STEEL PROCESSOR WITH A PRODUCT RANGE THAT COVERS EVERYTHING FROM CARBON TO STAINLESS STEEL, FROM LONG TO FLAT PRODUCTS, FROM COMMODITY TO SPECIALTY.

IN JANUARY 2023, THE COMPANY ACQUIRED AN ELECTRIC FURNACE FOR SPECIAL STEEL PRODUCTS IN SHEFFIELD, UK: THIS BEING THE FIRST PRIMARY PRODUCTION ASSET IN THE GROUP'S HISTORY. MARCEGAGLIA HAS INVESTED WITH A VIEW TO SHORTENING AND STABILISING SUPPLY CHAINS AND DEVELOPING AN OFFER OF INCREASINGLY SUSTAINABLE AND COMPETITIVE PRODUCTS.



STEEL, IN ALL SHAPES

CARBON STEEL



CARBON STEEL COILS
PICKLED, COLD ROLLED AND HOT DIP GALVANIZED



CARBON STEEL STRIPS
BLACK, PICKLED, COLD ROLLED AND HOT DIP GALVANIZED



CARBON STEEL SHEETS
BLACK, PICKLED, COLD ROLLED, HOT DIP GALVANIZED, DIAMOND AND TEARDROP PAT-TERNE



PRE-PAINTED COILS



PRE-PAINTED STRIPS AND SHEETS



CARBON STEEL WELDED TUBES



COLD-DRAWN WELDED TUBES



REFRIGERATION TUBES

BUILDING



INSULATED ROOFING AND WALL PANELS



INSULATED PANELS FOR SECTIONAL DOORS



SAFETY BARRIERS



SCAFFOLDING EQUIPMENT

SPECIALTY STEEL



STAINLESS STEEL COILS



STAINLESS STEEL STRIPS



STAINLESS STEEL SHEETS



STAINLESS STEEL WELDED TUBES



CARBON AND STAINLESS STEEL COLD-DRAWN BARS

STAINLESS STEEL FLAT BARS

STAINLESS STEEL COLD FORMED SECTIONS



STAINLESS STEEL WIRE RODS

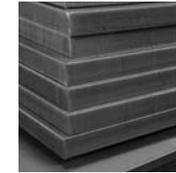


STAINLESS STEEL BARS



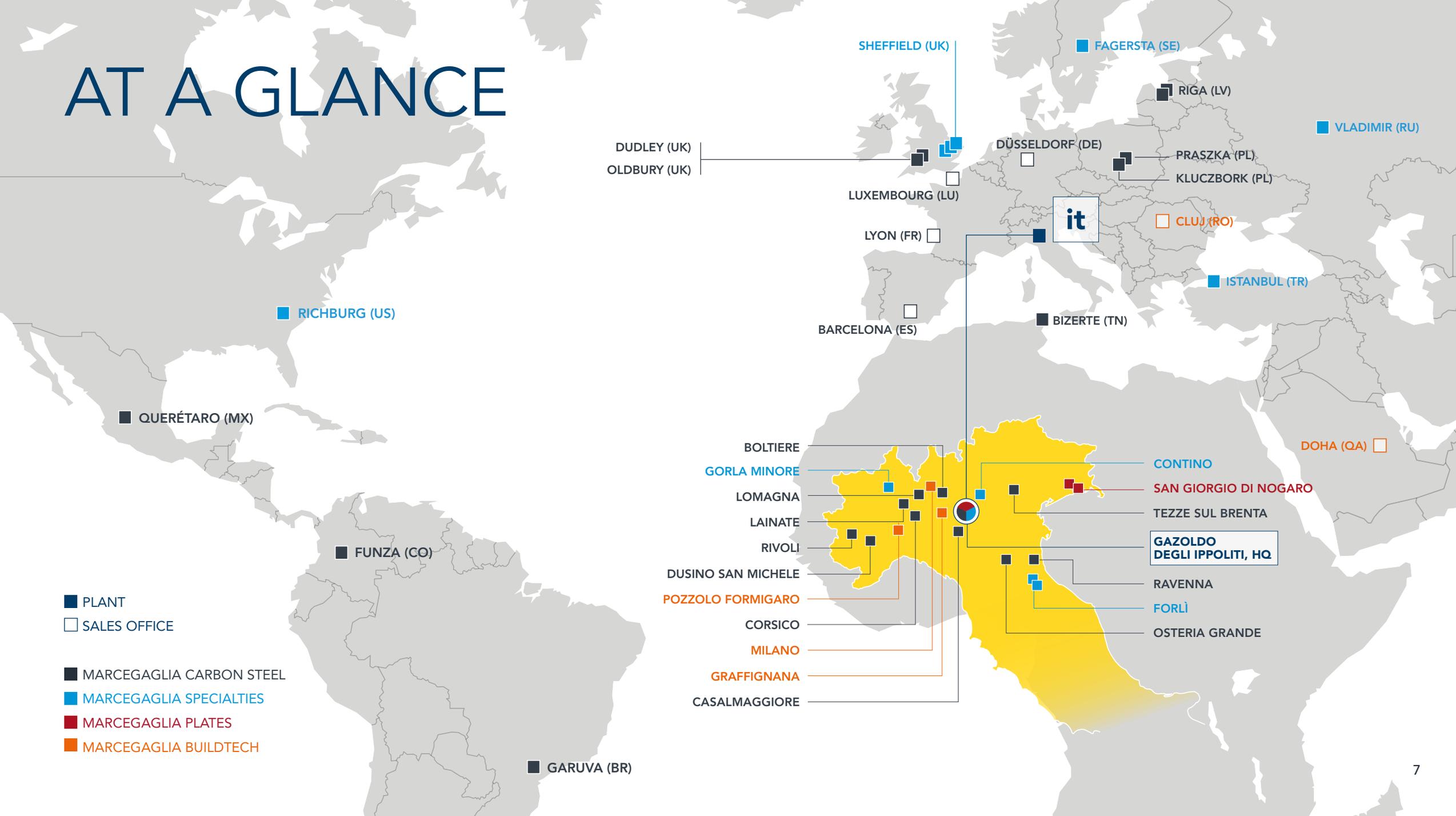
STAINLESS STEEL DRAWN WIRES

HEAVY PLATES



HEAVY PLATES

AT A GLANCE

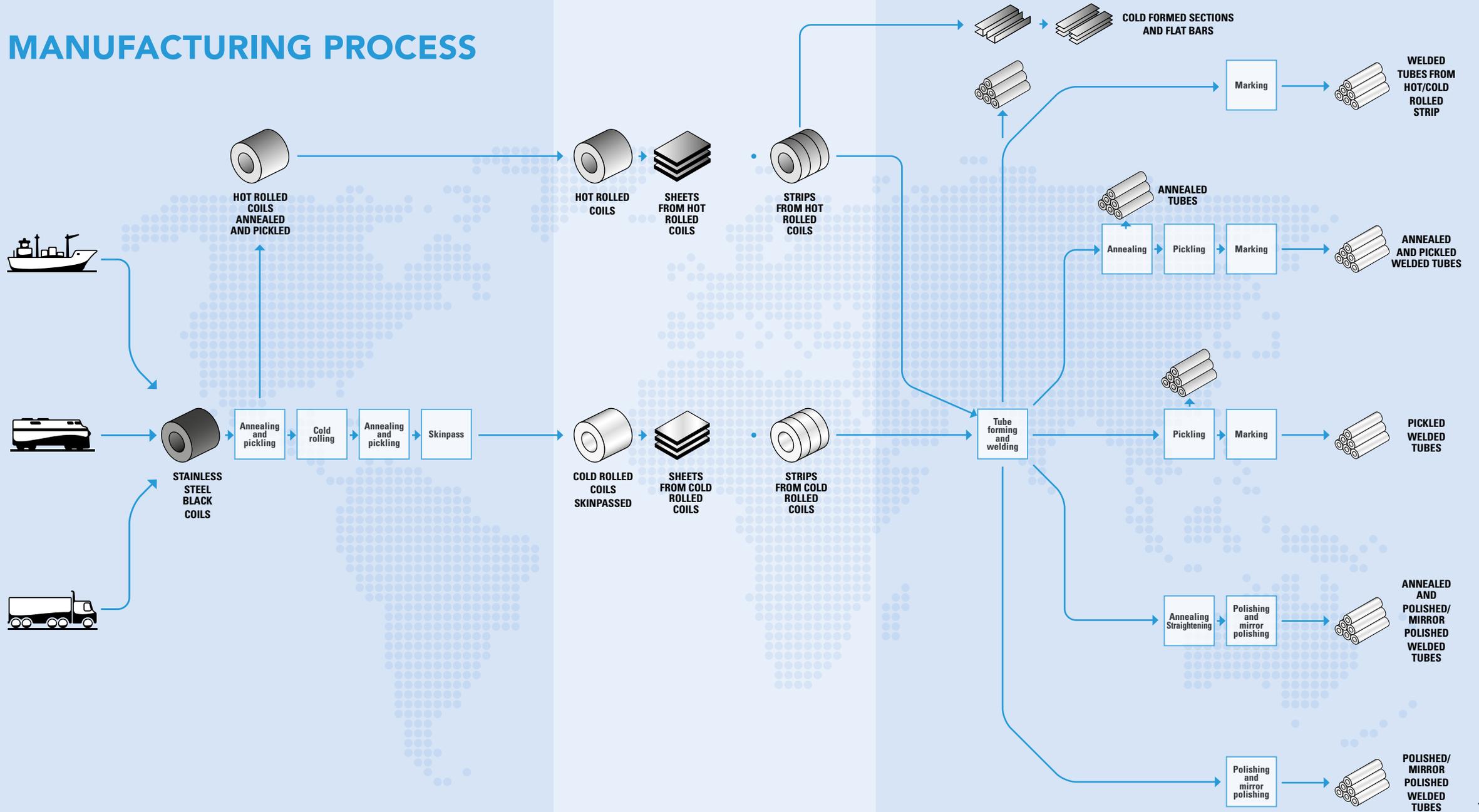


**MARCEGAGLIA SPECIALTIES
STAINLESS STEEL DIVISION**

A UNIQUE GLOBAL PLAYER IN STAINLESS STEEL WELDEDE TUBES



MANUFACTURING PROCESS



MANUFACTURING PLANTS - ITALY



CONTINO
Stainless steel bright bars



GAZOLDO DEGLI IPPOLITI
HEADQUARTERS
Stainless steel flat products



FORLÌ
Stainless steel welded tubes
automotive tubes and pipes,
process pipes for fluids,
construction and ornamental tubes



MANUFACTURING PLANTS - WORLD



GARUVA, BRAZIL

Stainless steel welded tubes

automotive tubes and pipes,
process pipes for fluids,
construction and ornamental tubes

○ Stainless steel production
in Marcegaglia Carbon
Steel plant



VLADIMIR - RUSSIA

Stainless steel welded tubes

automotive tubes and pipes,
process pipes for fluids,
construction and ornamental tubes

Stainless steel flat products



ISTANBUL - TURKEY

Stainless steel welded tubes

polished tubes / decoration
and corrosion tube sector

PRODUCT RANGE

STAINLESS STEEL PRODUCTS

FLAT PRODUCTS

HOT ROLLED COILS

COLD ROLLED COILS

HOT ROLLED SHEETS

COLD ROLLED SHEETS

HOT ROLLED STRIPS

COLD ROLLED STRIPS

WELDED TUBES AND LONG PRODUCTS

WELDED TUBES

- high-frequency
- laser
- TIG

LONG PRODUCTS

- bright bars
- flat bars
- cold formed section

COLD-DRAWN BARS

STAINLESS STEEL COLD-DRAWN BARS

COLD-DRAWN
BARS

CARBON STEEL COLD-DRAWN BARS

COLD-DRAWN BARS

FREE CUTTING STEEL
COLD-DRAWN BARS

A UNIQUE GLOBAL PLAYER

IN STAINLESS STEEL WELDED TUBES

Product range

thickness min. mm 0.4

thickness max. mm 6

diameter min. mm 4

diameter max. mm 355

ROUND

Ø min. mm 4

Ø max. mm 355

SQUARE

min. mm 10x10

max. mm 120x120

RECTANGULAR

min. mm 20x10

max. mm 150x100



FORLÌ PLANT

THE PLANT

The Marcegaglia plant in Forlì, acquired in 1985, spreads over an area of approximately 290,000 m² (105,000 of which covered) in the industrial district between the cities of Forlì and Forlimpopoli.

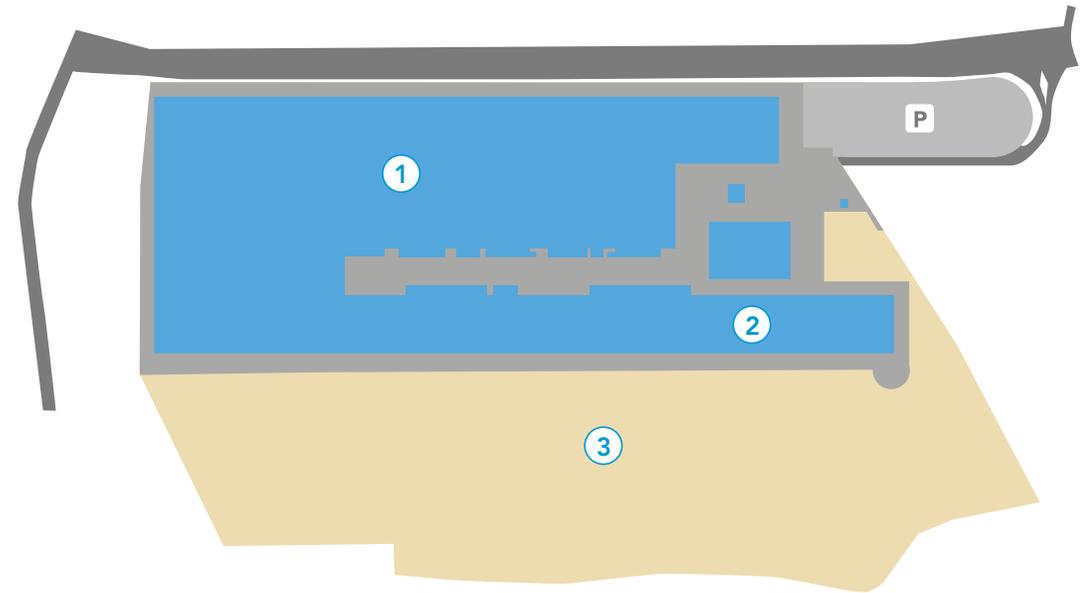


THE PLANT

The world's largest plant for the production of stainless steel welded tubes

- Total area: 290,000 m²
- Covered area: 105,000 m²
- Employees: 470

- 1 **Stainless steel welded tubes:** 90,000 m²
- 2 **Tubes for automotive applications:** 13,000 m²
- 3 **Development:** 70,000 m²



PRODUCTION AREAS

PROCESS PIPES FOR FLUIDS, CONSTRUCTION AND ORNAMENTAL TUBES

230,000 manufacturing capacity (t/y)

36 welding lines (29 laser, 7 HFIW)
equipped with eddy current NDT devices and marking machines

1 raw material warehouse

4 slitting lines

16 inline annealing furnaces

11 bright annealing lines

5 annealing and pickling lines

9 inline pickling machines

2 straightening machines

3 eddy current NDT devices out line

2 air in water NDT devices out line

1 marking machine out line

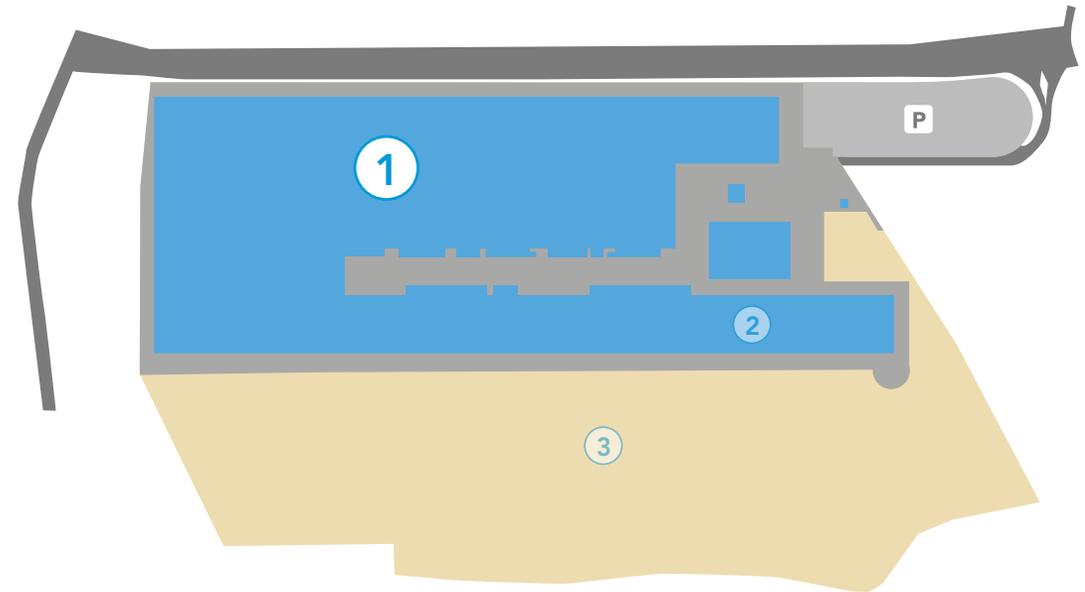
1 ecological pickling line

5 polishing machines*

3 mirror polishing machines*

3 cut to length centers*

**outsourcing*



PRODUCTION AREAS

FOR MECHANICAL AND AUTOMOTIVE APPLICATIONS

50,000 manufacturing capacity (t/y)

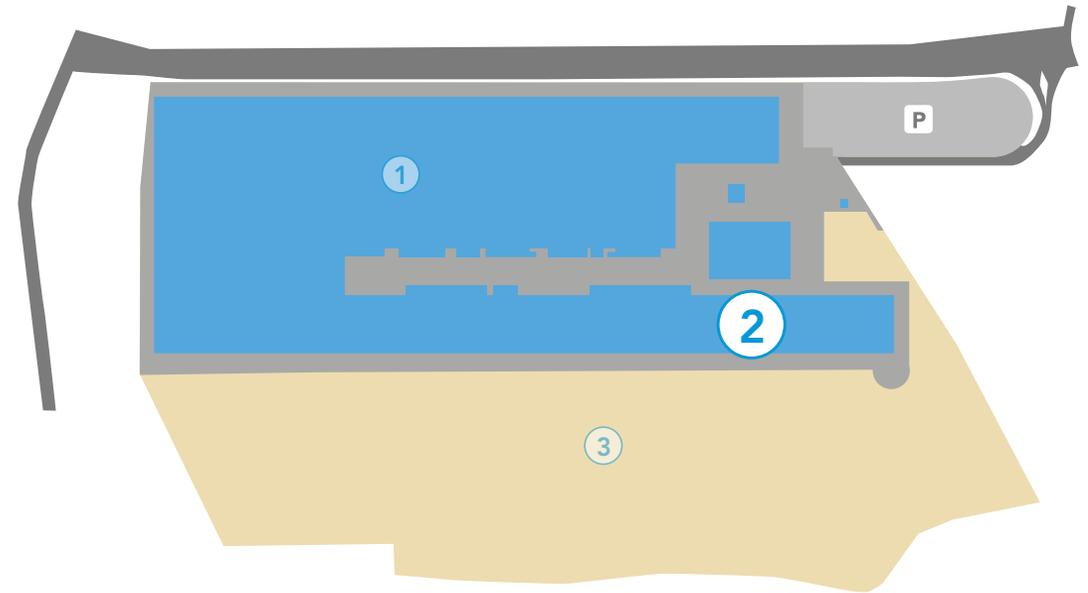
2 new HFIW production lines

for outside diameters from 30.00 mm to 76.00 mm

3 centers for cutting and special packaging*

- Dedicated final product warehouse
- Dedicated Logistic

* outsourcing



SYSTEM CERTIFICATIONS



Quality

ISO 9001:2015
IATF 16949:2016
ISO 3834-2:2005

Environment

ISO 14001:2015

Safety

ISO 45001:2018

Energy

ISO 50001:2011



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PRODUCT CERTIFICATIONS

APPLICATION	STANDARD
PRESSURE VESSELS	TUV - AD2000 W2/W10 and Pressure Equipment Directive PED 2014/68/EU
WATER AND GAS PIPES	DVGW mark
FOOD INDUSTRY	EHEDG mark
FOOD INDUSTRY	Conformity of laser welded tubes TXT003, TXT014, TXT015 to Regulation (EC) n.1935/2004 of the European Parliament and Council of 27/10/2004, Regulation (EC) n.2023/2006 (GMP - Good Manufacturing Practices) of the Commission of 22/12/2006, Italian Ministerial Decree of 21/03/1973 and subsequent updates and amendments

All production processes (laser welding, HFIW high-frequency induction welding, in-line heat treatment, in-line pickling, off-line tank pickling) are qualified in compliance with applicable standards. All machine operators and non-destructive testing personnel are qualified in accordance with current reference standards.



STAINLESS STEEL WELDED TUBES MANUFACTURING CAPACITY



STAINLESS STEEL WELDED TUBES	CAPACITY KT/year	PRODUCT KT/year
LASER WELDING LINES	80	60
HFIW PRODUCTION LINES	150	90
HFIW PRODUCTION LINES - AUTOMOTIVE	50	32
FINISHING LINES	50	32

STAINLESS STEEL WELDED TUBES PRODUCT RANGE

EXTERNAL TUBES PROFILES:
ROUND
SQUARE
RECTANGULAR
SPECIAL PROFILES

ROUND

Diameter min. - max. (mm) 4 - 355

Thickness min. - max. (mm) 0.4 - 6

SQUARE

Dimensions min. - max. (mm) 10 - 120

Thickness min. - max. (mm) 1 - 6

RECTANGULAR

Dimensions min. - max. (mm) 20x10 - 150x100

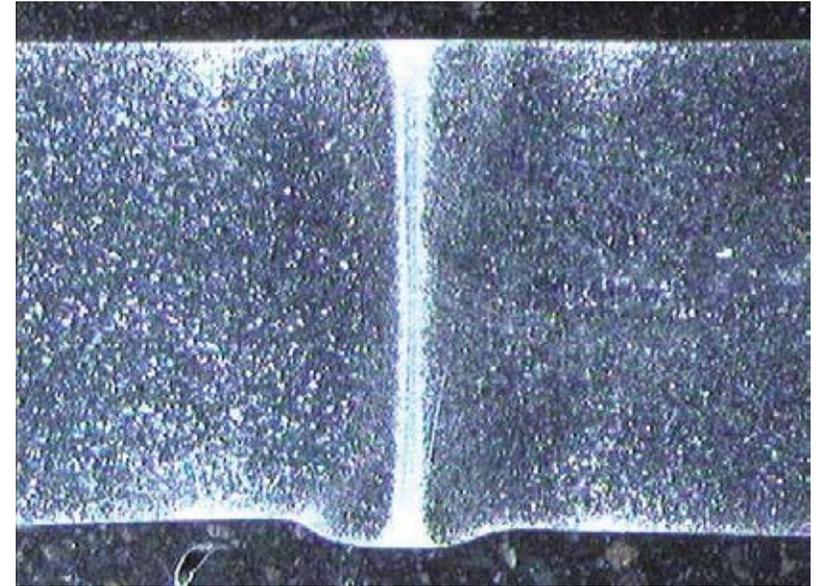
Thickness min. - max. (mm) 1 - 6



WELDING TECHNOLOGIES

HIGH FREQUENCY INDUCTION WELDING

9 stainless steel production lines
65% of total manufacturing capacity
120 m/min production speed



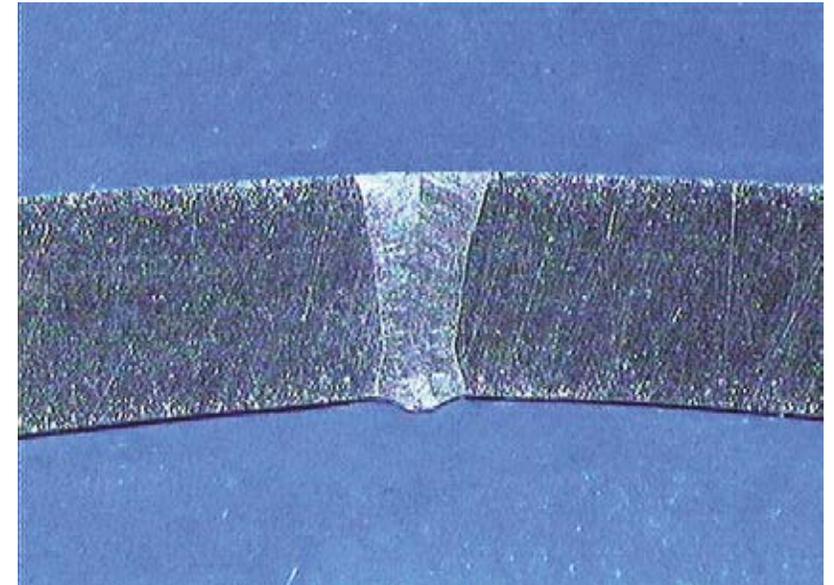
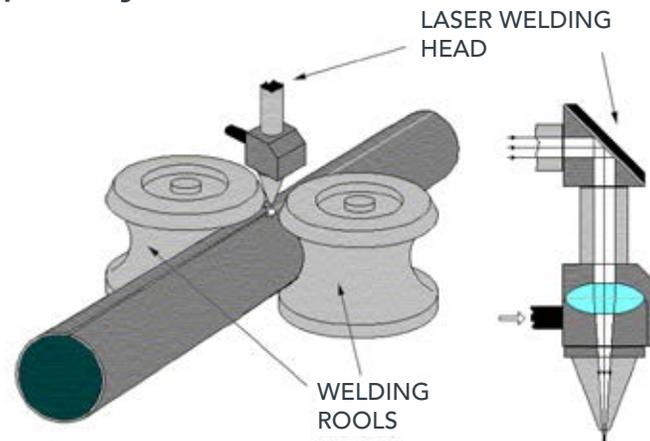
WELDING TECHNOLOGIES

LASER WELDING

29 production lines

35% of total manufacturing capacity

15 m/min production speed



STEEL GRADES



Austenitic

- 1.4301 - TP 304
- 1.4307 - TP 304L
- 1.4541 - TP 321
- 1.4401 - TP 316
- 1.4404 - TP 316L
- 1.4571 - TP 316Ti

on request according to EN 10028-7

Ferritic

- 1.4509 - TP 441
- 1.4510 - TP 439
- 1.4512 - TP 409
- 1.4521 - TP 444

on request according to EN 10028-7

Duplex

on request according to EN 10028-7

A UNIQUE GLOBAL PLAYER IN STAINLESS STEEL WELDED TUBES

Marcegaglia Specialties today is the **world's top manufacturer** of stainless steel welded tubes, with a yearly capacity of 330 thousand tonnes.

Throughout the years, Marcegaglia Specialties has also developed a specific know-how in **automotive stainless tubes for exhaust systems** (manifold, front and center pipes, flexible joints, catalytic shells, mufflers, tail pipes) and for hydroforming applications, as well as custom-designed box sections for bus frames and other structural applications in the commercial vehicle industry.



TYPICAL APPLICATIONS

The range of products certified for applications in fluid transportation includes tubes for the **food and dairy industry**, for **drinking water** and for the **chemical and pharmaceutical sector**, as well as tubes for use in the **petrochemical sector**, **heat exchanger** and **heating elements**, and for other **mechanical applications**.

PROCESS PIPES
FOR FLUIDS

FEEDWATER HEATER TUBES
FOR POWER PLANTS

TYPICAL APPLICATIONS

CONSTRUCTION
AND ORNAMENTAL TUBES

Building with steel means excellence.

Mechanical properties, aesthetic values and durability: stainless steel is the environment-friendly material of choice for **contemporary architecture**.

TYPICAL APPLICATIONS

The product range of tubes for **exhaust systems**, tubes for **hydroforming** applications and special shapes for **automotive construction** is engineered and manufactured in Marcegaglia stainless steel production plants worldwide: **Brazil, Russia and Italy**, hosting more than 70 high-technology tube processing lines.

TUBES FOR MECHANICAL
AND AUTOMOTIVE
APPLICATIONS



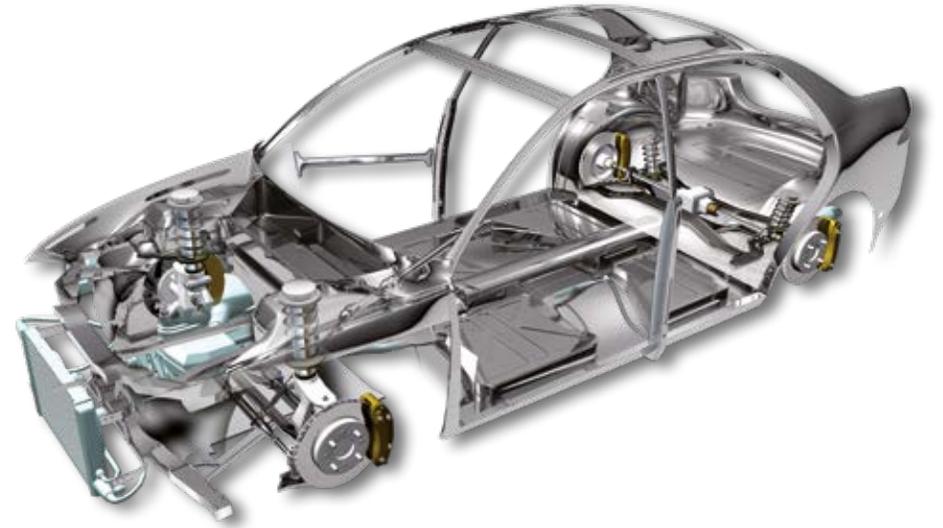
MARCEGAGLIA
SPECIALTIES

QUALITY STRATEGY

- Each plant can ensure the same quality level of product and service, thanks to Marcegaglia Specialties shared knowledge base, shared quality procedures and learning activities, and the same mills suppliers
- Continuous process of technological upgrade and product development
- Marcegaglia Specialties in a proactive role to promote the right stainless steel grade in accordance with actual application requirements

THE GROWTH GUIDELINES

- FOCUS ON PROJECTS/END USERS
- AUTOMOTIVE TUBES
growing presence in the automotive market in countries with high growth potential
- PROCESS PIPES
 - Heat Exchangers
 - Feedwater Heaters
 - Power Plant Evaporators
 - Boiler Tubes
 - Press Fitting
 - Duplex and Exotic Grades



THE GROWTH GUIDELINES

MARCEGAGLIA SPECIALTIES ON THE EXHAUST SYSTEM MARKETS

The first 3-4 key players in manufacturing of exhaust system are Europe-based **with global activities**.

Marcegaglia Specialties aims to become the **only global player** in stainless steel welded tubes.

Marcegaglia Specialties manufacturing units in **Italy, Russia, Turkey, Brazil** - in partnership with Marcegaglia Carbon Steel plants - are strategically located to serve these key automotive districts.



THE GROWTH GUIDELINES

Marcegaglia Specialties gives the same great importance to the supplier as to the customer and human resources.

For this reason, we have chosen to co-operate with a limited number of selected suppliers, with focus on long-term partnerships on industrial basis.



OUR STEEL BRINGS YOUR WORLD TO LIFE



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