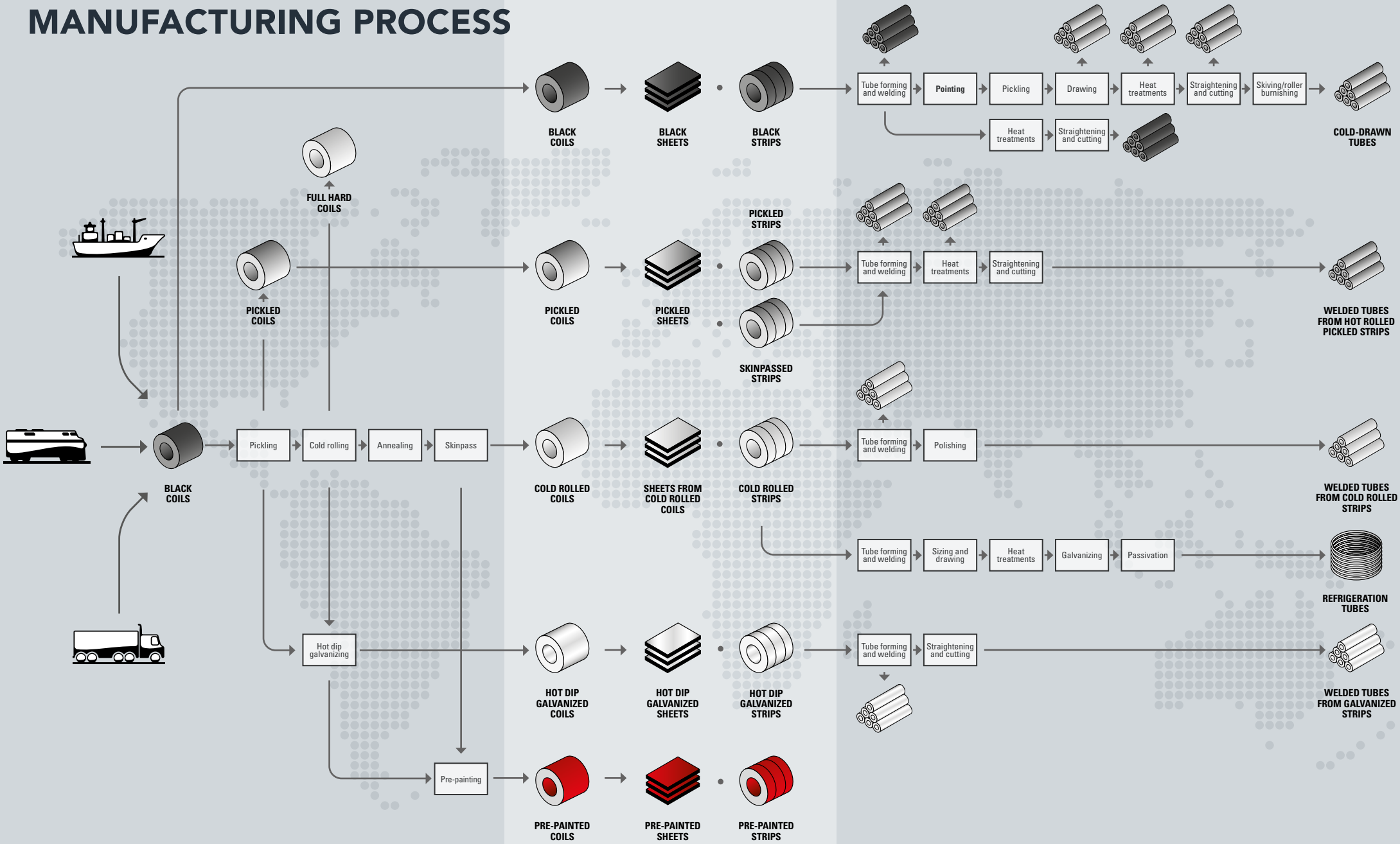




MARCEGAGLIA
CARBON STEEL

Lainate plant
ETA division

MANUFACTURING PROCESS





ETA division

ETA sales division operates within two plants:

- Lainate (Milan) spreading over 60,000 sqm, of which 34,000 covered
- Osteria Grande (Bologna) with 20,000 sqm, of which 6,500 covered

The division is active in the sale of **carbon steel tubes**, welded tubes for mechanical applications and cold formed hollow sections - round, square and rectangular shaped.

Several types of **threading** are also performed, for the production of **micropiles** with diameters from 76,1 up to 219,1 mm.



Divisione ETA

The overall volume of products handled by the division is about 50,000 tonnes per year, with a total stock of 20,000 tonnes.

The stock of **ready material** includes:

- Hot finished welded tubes for mechanical and structural applications
- Welded tubes for the furniture industry
- Welded cold-drawn tubes for mechanical applications
- Welded tubes for micropiles and micropiles
- Carbon steel seamless tubes
- Welded tubes for low pressure line pipes
- ERW tubes for line pipes API

Main manufacturing standards

EN 10305-3 Round and shaped precision tubes

EN 10305-5 Square and rectangular precision tubes

EN 10219 Cold formed welded structural tubes (CE homologation)

EN 10210 Structural hollow sections, hot finished or cold formed and heat treated

EN 10217-1 Tubes for pressure purposes, for use at room temperature

EN 10217-2 Tubes for pressure purposes, for use at high temperatures

EN 10208-1 Steel pipes for pipelines for combustible fluids

EN 10224 Tubes for the conveyance of water and other aqueous liquids

EN 10255 Tubes suitable for welding and threading

EN 10305-2 Cold-drawn welded tubes for mechanical use

EN 10296-1 Welded tubes for mechanical and general engineering purposes

**ASTM/
ASME/API** Line pipes

Upon request: supply of grades not included in the above mentioned standards

Tubes for steel structural work



Tubes for piling



Typical applications

The production program of Marcegaglia tubes from hot rolled strip covers a wide range of structural and mechanical applications, guaranteeing specific suitability for subsequent processing.

Tubes for district heating



Tubes for pressure purposes include applications for the heat exchanger industry, heating and ventilation, gas and water line pipes, district heating tubes.

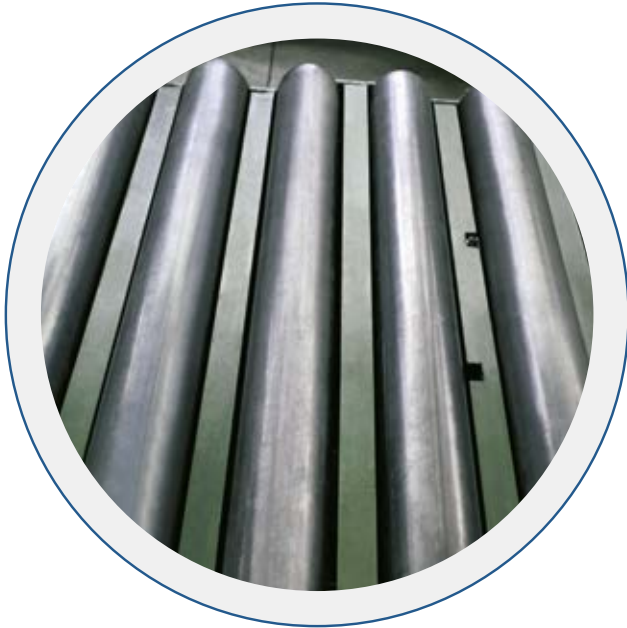
Tubes for heat exchangers



Tubes for gas and water line pipes



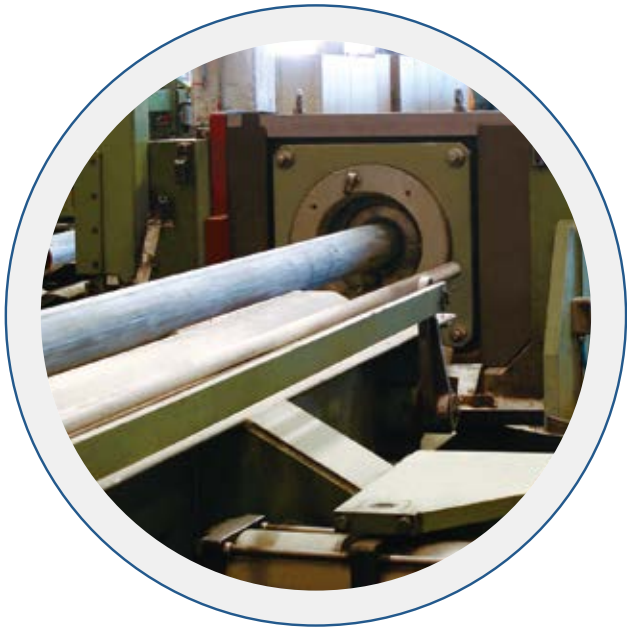
Roller conveyor tubes



Tubes for lifting equipment



Tubes suitable for drawing



Marcegaglia has developed a unique know-how in the manufacturing of precision tubes to meet the strict dimensional and surface specifications required by manufacturers in several mechanical engineering sectors.

Micropiles with standard threading

Male-female threading

Threaded male-female joint, square thread for fast screwing (four threads per inch) or other thread type upon request.



Micropiles with standard threading

Male-male threading with coupling

Coupling joint for two male-male threaded elements.

Square thread for fast screwing,
four threads per inch.



Micropiles with standard threading

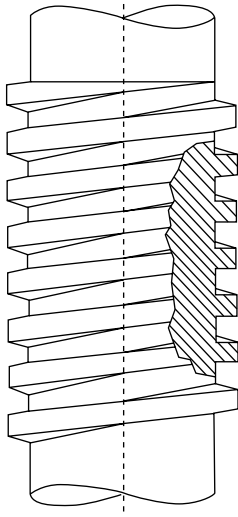
Female-female threading with internal coupling

**Internal coupling joint
for two female-female elements.**

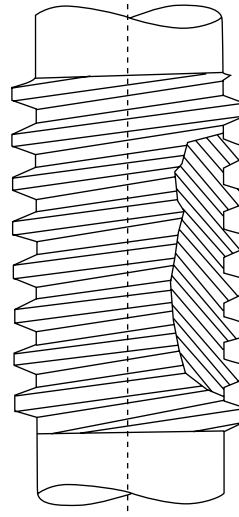
**Square thread for fast screwing,
four threads per inch.**



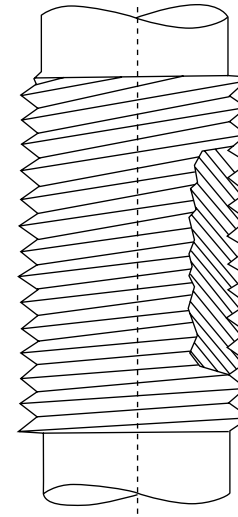
Threading types



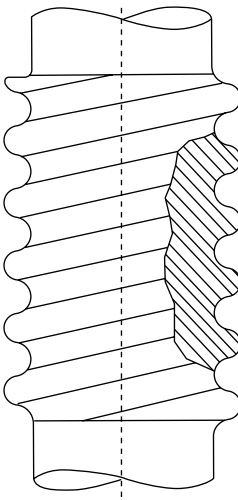
square thread



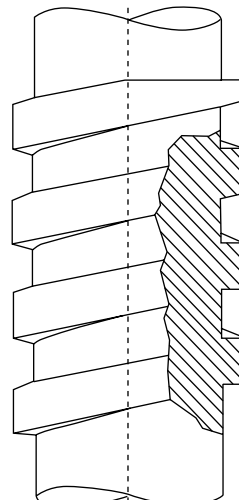
trapezoidal thread



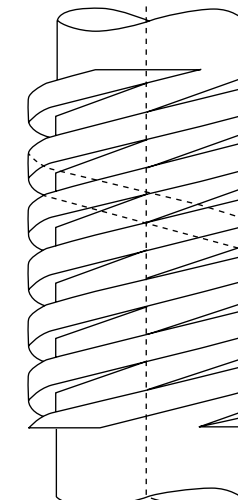
triangular thread



round thread



rectangular thread



triple thread

Micropiles - Accessories

Sleeve type valves (Manchette)

Made from rubber material, valves are inserted over the tube and fastened by steel rings welded at the valve ends.



Micropiles - Accessories

Button valves

Made from rubber-steel or plastic-steel material, inserted within the tube wall.

- valve Ø 12 mm with 2 bar opening
- valve Ø 16 mm with 2 bar opening
- valve Ø 16 mm with 20 bar opening

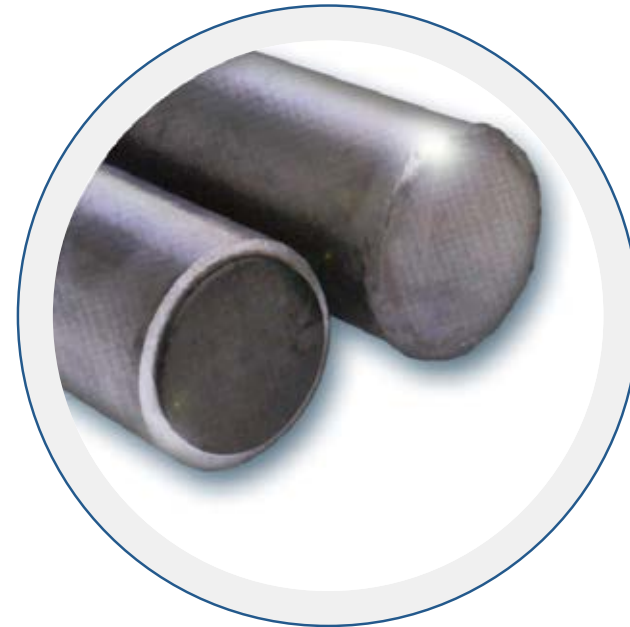


Micropiles - Accessories

End plugs

Steel plugs, supplied as welded on the tube.

Plastic plugs for pressure insertion upon request.





Service centre

Tube cutting

automatic lines
diameters

14
up to 800 mm
also in bundles

Certifications



- **Quality Management System** according to ISO 9001:2008
- **Certificate of Processing Centre** in accordance to Italian Ministerial Decree January 14, 2008 "Technical Rules for Construction"
- RINA approval for "alternative testing procedure" on products for the **naval sector**
- under completion: certification according to EN 1090-1 (CE marking on factory inspection for micropiles and threaded tubes for structural use)



November 2023

OUR STEEL BRINGS YOUR WORLD TO LIFE

 **MARCEGAGLIA**
CARBON STEEL

via Bresciani, 16
46040 Gazoldo Ippoliti
Mantova - Italy
www.marcegaglia.com