



# WIRE ROD



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## II GRUPPO PITTINI

Pittini Group, with an over **60-year-long experience in the steel industry**, is a leader in the production of long products for the construction and engineering industry.

Technological innovation, applied to both products and production processes, and the expertise of the Group's employees allow it to be a reliable partner in providing solutions that meet the needs of **customers worldwide**. The manufacturing system follows a strategic approach based on **verticalization**. A model that guarantees accurate quality controlling all the processing phases, from raw materials to steel down to the finished product.



**1° manufacturer**  
of long steel products in Italy



**3 mio/year**  
tonnes of steel produced



**24**  
facilities



**2,000**  
employees

For the Pittini Group, **continuous process improvement, health and safety at work, environmental protection and respect for the community** are fundamental principles that translate into the three **values** that guide its activities:

**> reliability:** which allows for objectives to be achieved by guaranteeing professionalism and quality, meeting the expectations of all Stakeholders;

**> innovation:** which means evolving constantly, in production methods, processes and organisation in order to anticipate and be ready for the challenges that the future holds;

**> people:** which means feeling part of the organisation, developing one's full potential and doing one's best to help achieve the company's results.

# An INTERNATIONAL REPUTATION

The Pittini Group, with its main headquartered in Osoppo (Udine), is a steel group with a strong international focus: **30 production and distribution facilities** located in Italy and Central Europe make the Pittini Group an important player at European level.

## Ferriere Nord

- Osoppo (UD), Italy
- Meltshop with electric arc furnace
  - Wire rod rolling mill
  - Rebar rolling mill
  - Jumbo® rolling mill
  - Cold steel processing
  - Lattice girder production
  - Granella® and Siderlime® production

## Siderpotenza

- Potenza, Italy
- Meltshop with electric arc furnace
  - Rebar rolling mill
  - Granella® production

Ceprano (FR), Italy

- Distribution centre

Giammoro (ME), Italy

- Distribution centre

## Acciaierie di Verona

- Verona, Italy
- Meltshop with electric arc furnace
  - Wire rod rolling mill
  - Rebar rolling mill
  - Cold steel processing

Nave (BS), Italy

- Cold steel processing

## La Veneta Reti

- Loreggia (PD), Italy
- Cold steel processing

## SIAT

- Gemona del Friuli (UD), Italy
- Cold drawn flat wire production

Majano (UD), Italy

- Cold rolled wire production

## Pittarc - Division of Siat

- Osoppo (UD), Italy
- Welding wires production plant

## BSTG

- Linz, Austria
- Sales office
- Graz, Austria
- Cold steel processing

## Kovinar

- Jesenice, Slovenia
- Cold steel processing

## STEELAG

- Kralupy, Czech Rep.
- Cold steel processing
- Bánovce, Slovakia
- Cold steel processing

## Drat Pro

- Kralupy, Czech Rep.
- 3D bending wire

## Pittini Deutschland

- Aichach, Germany
- Sales office

## Pittini Siderprodukte

- Geroldswil, Swiss
- Sales office

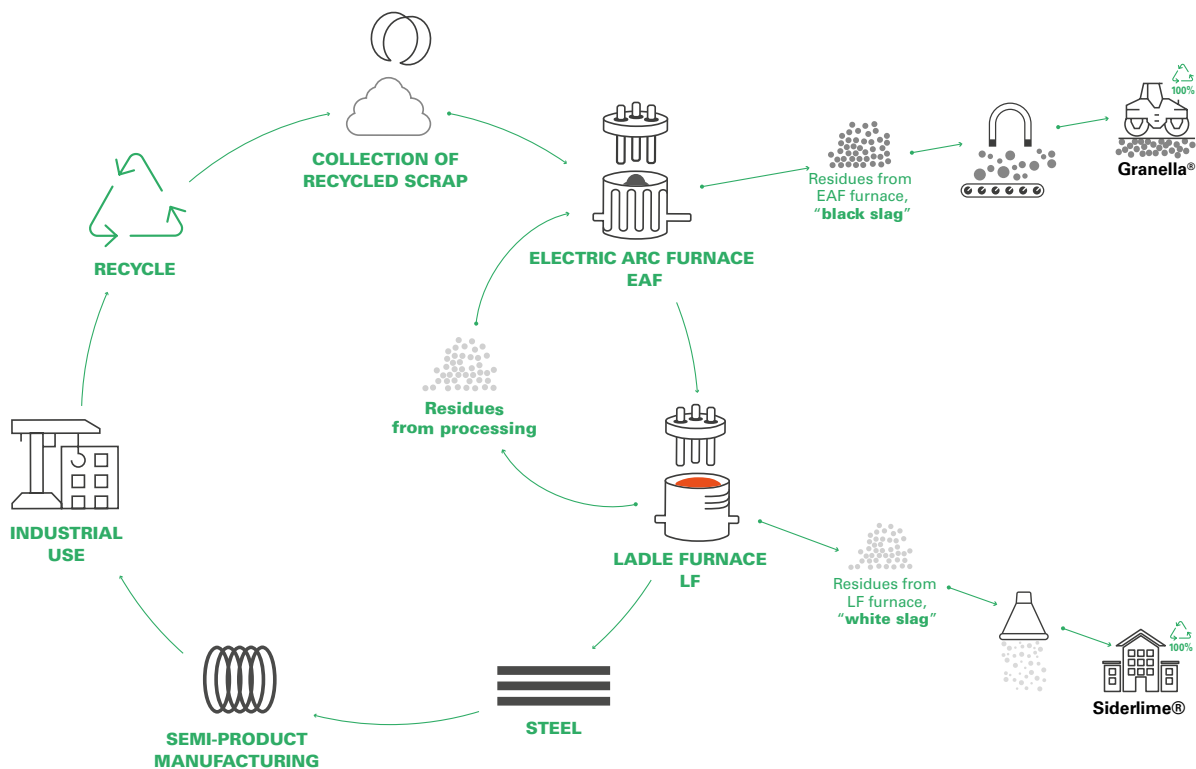
## Verona Servizi Logistici

- Verona, Italy
- Services



# CIRCULAR ECONOMY

The Pittini Group produces steel from **recycled ferrous materials** using an **electric arc furnace (EAF)**, the most sustainable and environmentally friendly technology for this type of production.



Since the 1990s, the Pittini Group has been promoting the circular economy through its **Zero Waste** initiative, an approach that transforms steel production into a virtuous cycle where nothing is wasted: processing residues do not become waste, but are valorised and recycled as new resources, reducing energy consumption and minimising environmental impact.

The Zero Waste initiative focuses primarily on the most significant materials in terms of quantity, such as electric furnace slag, ladle furnace slag, flue gas desulphurisation dust, scale and refractories. These secondary materials are now valorised within or outside the production cycle, becoming **substitutes for other raw materials**.

# At the FOREFRONT OF ROLLING TECHNOLOGY

The Pittini Group is specialised in the production of high-quality carbon wire rod for **various applications in the building**, construction and mechanical engineering sectors.



Annual production  
**2,000,000 ton**



2 wire rod rolling mills  
**Osoppo Verona**

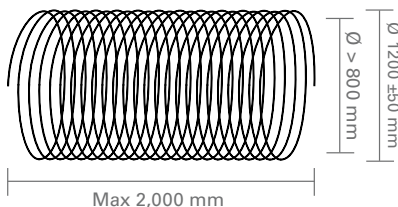


Diameters range  
**5.5 ÷ 21.5 mm**

Wire rod production by the Pittini Group has always been characterized by the use of innovative technologies, but our real strength lies in our know-how: a unique process expertise that we have been nurturing over the years thanks to a team of technologists and product experts committed to improving production quality day after day.

The rolling mills installed in our production facilities have been designed in-house so as to obtain products with high added value using the best technologies available throughout the entire rolling process.

## PACKAGING



WEIGHT UP TO 2,750 kg

- **Wire rod for concrete reinforcements**

Is manufactured for filo cold rolled wire, electrowelded meshes and lattice girders.

- **Low carbon wire rod for drawing**

It allows high reductions until a final diameter that could be lower than one millimeter, ensuring always a constant quality and an optimal surface suitable for galvanic treatment or coating of the wire.

- **High carbon wire rod**

Obtained with innovative heat treatment on the entire rolling line, is used for the production of pre-stressed concrete strands, of tyre reinforcing or for mechanical springs.



Prodotto certificato

**EPD - Environmental Product Declaration**

# PRODUCT RANGE



# HIGH CARBON WIRE ROD

## G3V42

Drawing and galvanizing, for cable armouring and high tensile wire.

### MECHANICAL AND SIZE CHARACTERISTICS

EN ISO 16120-4	C42D2
Rm	700 – 750 MPa
Weight (Approx.)	2,500 Kg

### CHEMICAL COMPOSITION

Limits	C%	Mn%	Si%	P%	S%	Cr%
min	0.40	0.50	0.15	-	-	-
max	0.44	0.70	0.25	0.020	0.025	0.10



## G3V72

Drawing and cold rolling, for production of wire for springs and strands.

### MECHANICAL AND SIZE CHARACTERISTICS

EN ISO 16120-4	C72D2
Rm	1,020 – 1,120 MPa
Weight (Approx.)	2,500 Kg

### CHEMICAL COMPOSITION

Limits	C%	Mn%	Si%	P%	S%	Cr%
min	0.70	0.45	0.15	-	-	-
max	0.74	0.65	0.30	0.020	0.020	0.10



## G3V80

Drawing of wire for pre-stressed concrete strands.

### MECHANICAL AND SIZE CHARACTERISTICS

EN ISO 16120-4	C80D2
Rm	1,140 – 1,230 MPa
Weight (Approx.)	2,500 Kg

### CHEMICAL COMPOSITION

Limits	C%	Mn%	Si%	P%	S%	Cr%
min	0.78	0.60	0.15	-	-	-
max	0.82	0.80	0.30	0.020	0.025	0.20



## G3V82

Drawing of wire for pre-stressed concrete strands and for railway.

### MECHANICAL AND SIZE CHARACTERISTICS

EN ISO 16120-4	C82D2
Rm	1,140 – 1,230 MPa
Weight (Approx.)	2,500 Kg

### CHEMICAL COMPOSITION

Limits	C%	Mn%	Si%	P%	S%	Cr%
min	0.80	0.60	0.15	-	-	-
max	0.84	0.80	0.30	0.020	0.025	0,25



# WIRE ROD FOR CONCRETE REINFORCEMENT

## FE41 STA (SAE 1008 Mesh Quality) GVD/A

Drawing and cold rolling for production of concrete reinforcing.

### MECHANICAL AND SIZE CHARACTERISTICS FE41 STA

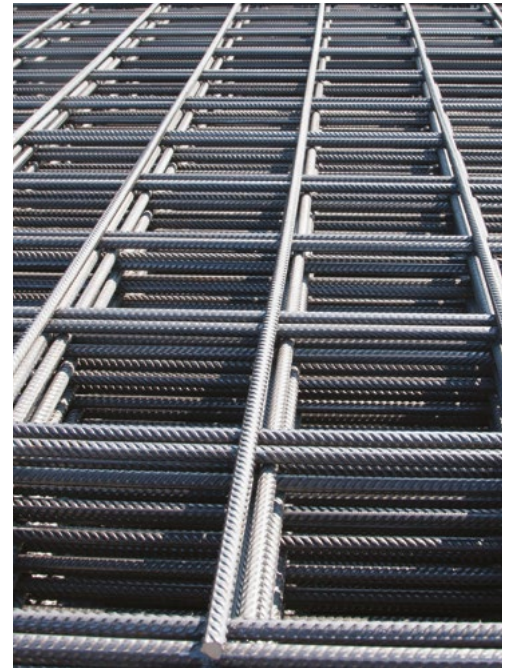
Standard	ASTM A 510M - SAE 1008
Rm	≤ 480 MPa
Weight (Approx.)	2,700 Kg

### MECHANICAL AND SIZE CHARACTERISTICS GVD/A

Standard	EN ISO 16120
Rm	≤ 470 MPa
Weight (Approx.)	2,500 Kg

### CHEMICAL COMPOSITION

		C%	Mn%	Si%	P%	S%	Ceq%
FE41 STA	max	0.10	0.50	0.15	0.040	0.050	0.30
GVD/A	max	0.09	0.55	0.15	0.050	0.050	0.30



## SAE 1010 (Mesh Quality)

Drawing and cold rolling for production of concrete reinforcing.

### MECHANICAL AND SIZE CHARACTERISTICS

EN ISO 16120-4	SAE 1010
Rm	≤ 500 MPa
Weight (Approx.)	2,500 Kg

### CHEMICAL COMPOSITION

Limits	C%	Mn%	Si%	P%	S%	Cu%
max	0.13	0.60	0.20	0.040	0.050	0.50



# WIRE ROD FOR DRAWING

## FE34 + B | G3V5/B

Deep drawing and cold rolling.

### MECHANICAL AND SIZE CHARACTERISTICS

<b>Standard</b>	ASTM A 510M SAE 1005 - SAE 1006 - EN ISO16120-3 C4D1
<b>Rm</b>	≤ 370 MPa
<b>Weight (Approx.)</b>	2,500 Kg

### CHEMICAL COMPOSITION

Limits	C%	Mn%	Si%	P%	S%	B%
<b>max</b>	0.05	0.35	0.10	0.025	0.025	0.010



## FE37 + B | G3V8/B

Drawing and cold rolling, suitable for hot dip galvanizing.

### MECHANICAL AND SIZE CHARACTERISTICS

<b>Standard</b>	EN ISO 16120-2 C4D
<b>Rm</b>	≤ 400 MPa
<b>Weight (Approx.)</b>	2,500 Kg

### CHEMICAL COMPOSITION

Limits	C%	Mn%	Si%	P%	S%	B%
<b>max</b>	0.06	0.60	0.20	0.025	0.025	0.010



## FE36 | SAE 1006 (S235JR)

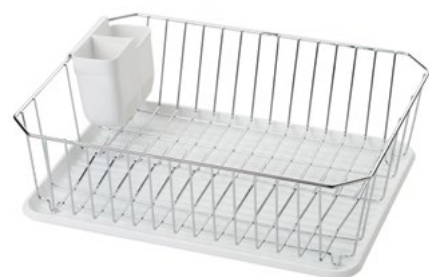
Drawing and cold rolling, suitable for steel structures according to EN 10025.

### MECHANICAL AND SIZE CHARACTERISTICS

<b>Standard</b>	ASTM A 510M SAE 1006 - EN ISO 16120-2 C4D - EN 10025-2 S235JR
<b>Rm</b>	≤ 430 MPa
<b>Weight (Approx.)</b>	2,500 Kg

### CHEMICAL COMPOSITION

Limits	C%	Mn%	Si%	P%	S%
<b>min</b>	-	0.30	-	-	-
<b>max</b>	0.06	0.45	0.12	0.030	0.030



## G3V20

Drawing and cold rolling.

### MECHANICAL AND SIZE CHARACTERISTICS

<b>Standard</b>	EN ISO 16120-4 C20D2
<b>Rm</b>	480 - 540 MPa
<b>Weight (Approx.)</b>	2,500 Kg

### CHEMICAL COMPOSITION

Limits	C%	Mn%	Si%	P%	S%
<b>max</b>	0.23	0.55	0.20	0.020	0.025





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