### ENG COMPANY PROFILE **2024**





All-round sustainability for 70 years

# A LARGE GROUP SUPPORTING EACH AND EVERY CUSTOMER

The Alfa Acciai Group has been among Europe's main manufacturers of reinforcing steel and wire rod for 70 years. It is now a benchmark in terms of cutting-edge technology, mindful of the employees and with environmental awareness throughout the entire steel supply chain.

Controlled by the holding Siderurgica Investimenti, the Group has a yearly overall production capacity of 2.5 million tonnes of steel and rolled products with a workforce of over 1,200 employees.

The Group has always been renowned for its industrial flexibility, utmost operational efficiency upstream and downstream of the melting process, and great financial and equity strength.

Focus on ethical corporate social responsibility principles, routine maintenance on installations and operations, caring and listening to stakeholders' requirements: these are the cornerstones on which the Alfa Acciai Group has grown and developed in the steel industry for seventy years with standards of excellence.

The Alfa Acciai Group comprises several well-established companies specializing in various steel-making areas in Northern and Southern Italy, a guarantee of products and services qualifying the Group as an excellent partner in terms of quality and reliability.









Alfa Acciai (Brescia), among the largest EAF steel mills in Italy.

Acciaierie di Sicilia (Catania), the only steel mill in the heart of the Mediterranean and among Sicily's main industrial hubs, an export-oriented industry given its proximity to significant seaport infrastructures.

Ferroberica, the leading operator in Italy and the second in Europe in the cutting and bending and assembling of reinforcing steel for use in structural work, boasts five production facilities overall in Vicenza, Montirone (BS), Sedegliano (UD) and two in Catania. For further information, log on to **www.ferroberica.it**.

Tecnofil (Brescia), specializing in the production of low- and medium-carbon wire and in the drawing and galvanising process, ideally integrates the wire rod supply chain downstream. It is currently the major drawing mill with a galvanizing plant in Europe. For further information, log on to **www.tecnofil.net**.

# ALL-IN-ONE ORGANISATION TO OPTIMISE PROCESSES AND PRODUCTS

### Steel mills

#### Alfa Acciai

Steel production starts in the scrap yard, where baskets are packed to feed the melting furnaces, according to specific recipes in terms of scrap mix and weight. A **shredder**, with a production capacity of 250,000 t/y, is in place for the production of proler.

The production process involves scrap melting in the **two electric arc furnaces (EAFs)** with a yearly overall production capacity of about **2,000,000 tonnes**, followed by the tapping of liquid steel. The molten steel is then refined in a bath and the metallurgical parameters are fine-tuned in the relevant ladle furnaces. The billet casting process is handled by two 5-strand continuous casting machines. The casting operating parameters are fully automated and optimised in real-time which means that they can be changed at any time as required.

The steel mill turns out two main end products:

- → billets with a square section of 130x130 mm (or 160x160 mm) in the length range of 6-12 m, intended for in-house rolling process and trading;
- → Alfa Sinstone<sup>®</sup> and Gripstone<sup>®</sup> artificial aggregates, two by-products obtained from the recovery of black steel mill slag from a plant with a production capacity of nearly 200,000 tonnes a year, for use in civil engineering works and road construction.







#### Acciaierie di Sicilia

Somewhat similarly to what has been said for the Brescia production site, steelmaking starts from the scrap yard, where a shredder of a yearly capacity of about 150,000 tonnes for the production of proler is also installed. The production process includes the melting of scrap in the EAF, with a yearly capacity of 500,000 tonnes, the tapping of liquid steel with the related secondary ladle metallurgical processing, followed by final casting in the 4-line continuous casting machine.

Production includes:

- → billets, with a square section of 130x130 mm in the length range of 6-12 m, intended for in-house rolling process and trading;
- Acciaierie di Sicilia → Sicilystone artificial aggregate, featuring the same characteristics of the Alfa Acciai's granulates obtained from a plant with a yearly production capacity of nearly 60,000 tonnes, is the ideal solution for bituminous and cement conglomerates, as well as for use in civil engineering works and road construction.



## ALFA ACCIAI: 2m t/y ACCIAIERIE DI SICILIA: 500k t/y

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## Hot rolling

#### Alfa Acciai

The facility is equipped with **three independent hot rolling mills**, with an overall production capacity up to **2m t/y**.

These systems turn out:

- → Reinforcing steel in bar (rebar);
- → Reinforcing steel in coil (spooled coils);
- → Smooth and ribbed **wire rod**.



#### Acciaierie di Sicilia

This site is equipped with a **rolling plant** with a production capacity of around **500,000 t/y** fed by a hot charge system that significantly reduces  $CO_2$  emissions.

This system turns out:

- > Reinforcing steel in bar (rebar);
- → Renforcing steel in coil (spooled coils).

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Welded wire mesh: 300,000 t/y

Recoiled wire: 150,000 t/y



### Downstream processing

#### Alfa Derivati

Alfa Derivati runs two different production facilities to the south of Brescia, where Alfa Acciai hot-rolled ribbed coils are processed to obtain:

- → Welded wire mesh for reinforced concrete, which is produced at the San Polo site in Brescia, using cold-stretching/rolling lines to give the mesh wire the required mechanical characteristics as well as welding machines, with a production capacity of about 300,000 t/y;
- → Recoiled wire: i.e. i.e. hot-rolled and cold stretched rebar packaged in coils. It is produced using drawing machines, with a total production capacity of about 150,000 t/y.

Out of the two production sites, the one in Montirone (Brescia) focuses on exports and boasts a railway link to make logistics increasingly sustainable.



Wherever there are projects and constructive ideas, being it large infrastructures or buildings of everyday life, Alfa Acciai is there.

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## A comprehensive range of steels

#### **Construction steels**

Alfa Acciai and Acciaierie di Sicilia produce reinforcing steel in bar, in coil and welded wire mesh in accordance with the following **country-specific standards**, compliance therewith is certified by the following bodies:



Plus two European reference standards:

**EN 10080: Weldable steel for the reinforcement of concrete,** stating the general requirements and definition of performance characteristics of weldable reinforcing steel for concrete structures.

**EN 1992-1-1: Eurocod 2 - Design of concrete structures**, providing general rules for the design of reinforced concrete structures of buildings and civil engineering works, including the **classification of steel grades according to their characteristics**.

Alfa Acciai and Acciaierie di Sicilia can also produce steel according to standards used in **Non-EU countries**, such as British Standard BS 4449 and US ASTM A615 and ASTM A706.



The Group's proactive approach meets diversified requirements in the broadest range of wire rod applications

#### Wire rod

**EN ISO 16120:** Non-alloy steel wire rod for conversion to wire Part 2: Specific requirements for general-purpose wire rod.

#### Applications:

Cold-drawing and/or cold-rolling, galvanized wire or hot-dip galvanizing, bright drawn wire, rivets.

**ASTM A510-A510M:** Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel, and Alloy Steel.

#### **Applications:**

Cold-drawing and/or cold-rolling, galvanized wire or hot-dip galvanizing, welded wire mesh.

**EN ISO 10025:** Hot-rolled products for structural steel grades. Part 2: Technical delivery conditions for non-alloy structural steels. Part 5: Conditions with improved atmospheric corrosion resistance for structural steels.

#### Applications:

Non-alloy steels for structural applications (also available with improved resistance to atmospheric corrosion) as is or cold drawn.

**EN ISO 683:** Heat-treated steels, alloy steels and free-cutting steels Part 1: Non-alloy steels for quenching and tempering

Part 3: Case-hardening steels.

#### Applications:

Non-alloy steels for quenching, hardening and tempering; case-hardening steels.

DIN 17115: Steels for welded round link chains and chain components Applications: Chains.

**EN ISO 14171:** Welding consumables – Solid wire electrodes, tubular cored electrodes and electrode/flux combinations for submerged arc welding of non-alloy and fine grain steels.

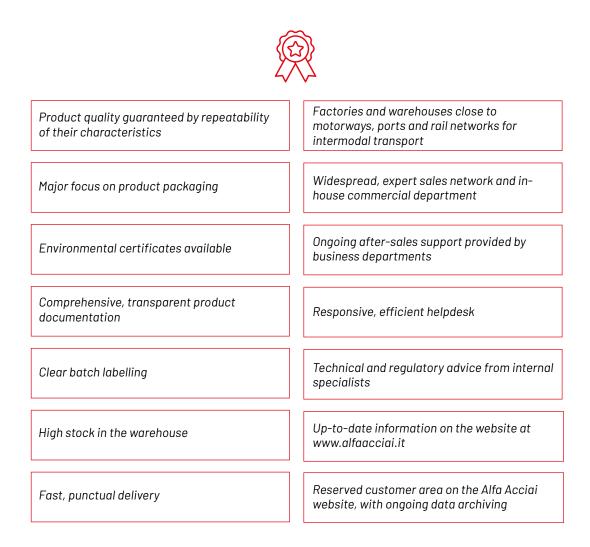
#### Applications:

Electrodes.

## Services that deliver the promise to support customers

Customer relationship goes beyond the supply of products and takes the form of an extensive system of **integrated services**, **aimed at ensuring an overall quality-oriented approach**. Proactiveness, precision and skills underpin our integrated service, which commences with a specialist advice on the product's functional characteristics, the regulatory aspects of use and the management of materials on site or in the premises where they are used.

The Alfa Acciai Group places the customer at the **centre of relationships by providing technical**, **professional and business expertise**, irrespective of the quantity and frequency of purchases.



## The "Alfa Acciai system": stronger, together

Six principles capable of developing "value added" products:

- Compliance with the rules;
- Interaction between tradition and innovation;
- Ongoing process innovation for increasingly sustainable and performing products;
- Investments in skills and professional development;
- Intelligent solutions to help customers contain costs;
- Cutting-edge choices to stay ahead of the game.

## Original values that remain

maning

The Alfa Acciai Group is fully aware that a **responsible and sustainable** business strategy is crucial to achieving and especially maintaining long-term competitive success. With this in mind, the Group keeps strengthening its relationship of trust with the communities in which its premises are situated and the stakeholders, thereby undertaking to operate in line with a defined set of values:

## valid and sustained

- → COOPERATIVE APPROACH
- → PROPRIETY
- → FAIRNESS
- → INTEGRITY

## A story of passion and tenacity

## 1955

"Acciaierie Laminatoi Fonderie Affini S.r.l.", the original name from which the current acronym "ALFA" derives, started its activity focusing entirely on steel production and rolling, through ongoing technological upgrading

## **1986**

The **Downstream Production Unit** comes into being for the production of welded wire mesh and drawn wire

## 1998

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Alfa Acciai takes over **Acciaierie di Sicilia** (Catania), the only steel mill in the heart of the Mediterranean, for the production of rebar and spooled coils

## 2004

Inauguration in Brescia of the third rolling mill to add reinforcing steel in spooled coils

## 1984

Mitigation of the environmental impact of the plant, through both the installation of state-of- the-art EAF off-gas dedusting systems and also soundproofing of the main production processes

## 1991

Alfa Acciai takes over **Ferroberica** (Vicenza), which allows the company to upgrade all its cold processes, including the pre-shaping and assembling of reinforcing steel, sectors in which Ferroberica is now the largest player in Italy and second in Europe

## 2000

In agreement with the Brescia Town Council, Alfa Acciai develops the "Alfa 2000" plan to further mitigate the environmental impact of the plant on the surroundings

## 2008

With a view to minimising the environmental impact of its production cycle, Alfa Acciai begins production of **Alfa Sinstone**<sup>®</sup>, an aggregate obtained from the recovery of steel mill slag for use in civil engineering works and road construction

## 2018

The **Montirone** site is about to host a new Alfa Derivati department for the production of recoiled wire and a Ferroberica high-tech plant, alongside the ones in Catania and Sedegliano (Udine)

## 2021

Publication of the Group's first Sustainability Report

## 2016

Alfa Acciai takes over in Brescia the industrial site of Montirone and **Tecnofil**, one of the major drawing mills with galvanising plant in Europe, and soon rationalized the wire types (galvanized, alu-zinc and bright wire)

## 2020

As a result of a research and development project, Alfa Acciai set up the feasibility of an innovative and efficient system to recover waste heat from the steel mill. The years 2023 and 2024 saw the implementation of the Alfa Heat Recovery industrial project, under which heat is transferred to the Brescia district heating network run by A2A, Italy's largest multi-utility company

## 2023

Ferroberica's 50<sup>th</sup> anniversary with the development of a product EPD for this company as well, downstream of Alfa Acciai's and Acciaieriae di Sicilia's melting process, and the definition of a **Group-wide Organisational Carbon Footprint** 



## 2024

70<sup>th</sup> anniversary of Alfa Acciai's foundation.

The Group's range of artificial aggregates is complemented by the production of Gripstone<sup>®</sup> at Alfa Acciai and Sicilystone at Acciaierie di Sicilia.

## Quality as a cornerstone for market positioning

With a view to meeting customers' needs and expectations, the Alfa Acciai Group aims to maintain its position as a benchmark in the EAF steel market, in terms of efficiency and quality production process.



### Quality commitment distinctive features

- → Input control of raw materials used by the group's steel mills by means of X-Ray Fluorescence (XRF) spectrometry, infrared and combustion.
- → Ongoing production monitoring by means of Statistical Process Control (SPC) techniques: thereby increasing customer satisfaction by maximising operational efficiency.
- → End product, in compliance with parameters defined by law, subjected to chemical analysis using Direct Optical Spectrometry (quantometer) and C-S (carbon-sulphur) and O-N (oxygen-nitrogen) analysers. Each Group company is responsible for certifying the mechanical and geometric characteristics of own production.
- → Automated analysis of steel structural elements, inclusion rate and surface decarbonisation level by Alfa Acciai's metallurgical test lab. Failure Analysis and metallographic tests are also performed to assist the production process and the Group's Customers.





All Alfa Acciai Group companies regularly implement an integrated quality management system in **accordance with UNI EN ISO 9001**, which is certified by IGQ – the Italian Quality Assurance Institute – and IQNet – the International Certification Network. The system ensures compliance with well-defined operating procedures and instructions that are kept up-to-date with the corporate technical and organisational development.

As an integral part of this System, the Supply Chain provides process repeatability, supply optimisation and end-customer satisfaction.

Last but not least, the close synergy between Quality Control, Process Engineering, Technical Service and Sales Network guarantees a constant monitoring and improvement of our products and production cycles.



The effective use of IT resources enables the organisation to achieve its business objectives, thereby ensuring resilience and continuity. Over the past year, the Group has undertaken IT governance initiatives to strengthen operational efficiency and security, improve customer engagement and enhance production process accuracy. All of these aspects directly or indirectly relate to product quality and customer service.

Major projects implemented include:

- → redefinition of Industrial KPIs;
- → optimisation of software-systems interface;
- → activation of a customer booking portal;
- $\rightarrow$  revamping of the perimeter security architecture.

In particular, the redefinition of KPIs included a complete update of key indicators (KE, KU, KQ, KN and KR) to ensure performance is measured more accurately and facilitate ongoing monitoring and optimisation of production processes.



# OUR COMMITMENT TO THE ENVIRONMENT

## Environmental commitment and Zero Waste philosophy

Our commitment to the environment is ongoing and unbending. It reflects who we are and where we're ahead. It is spanned over seventy years of history and has become an integral part of the industrial DNA of the Alfa Acciai Group, which is traditionally based on the **principle of circular economy**.

For some time, the Group has been committed to making steel production increasingly sustainable, through an integrated approach that involves all environmental aspects, full compliance with current legislation and the ongoing search for the best technical, management and organisational solutions to make consumption more efficient.

ZERO WASTE philosophy is a cornerstone for the Group, which, by creating real forms of industrial symbiosis, makes it possible to systematically apply the principle of circular economy, with the aim of reusing, recovering and enhancing every material resulting from the various processing stages, thereby safeguarding precious natural resources.

#### **Circularity of steel**

Steel is the most recyclable and recycled material in the world as it retains its characteristics over time, without any loss of quality or degradation of its mechanical properties, which is why it is hence crucial for the development of a circular economy.

In its Brescia- and Catania-based steel mills, the Alfa Acciai Group annually recovers **over 2 million tonnes of scrap iron**. The finished product is certified as containing more than 99% recycled material, providing the market with truly green products that can benefit from LEED credits.

In addition to the core business, this sustainability index is the result of innovation and ongoing investment, supported by business ethics and a culture that aims at the harmonious coexistence of business, environment and community.



#### **Artificial aggregates**

ALFA SINSTONE<sup>®</sup>, GRIPSTONE<sup>®</sup> and SICILYSTONE are the result of the Zero Waste strategy, in that these three by-products are obtained from the recovery of black steel mill slag at Alfa Acciai and Acciaierie di Sicilia, consisting mainly of iron, calcium and silicon oxides, which is generated during the melting process of scrap iron in the electric furnace.

These high-performance artificial aggregates are the result of ongoing research into new materials and new technologies for improving end products - and safeguarding natural resources. They can be used in building construction (concretes and mortars), road surfacing (bitumen) and in civil engineering works as a replacement for materials of natural origin (quarry aggregates).



#### **Energy transition**

Steel mills that produce steel by melting scrap in an electric arc furnace (EAF) are particularly energy-intensive. The main aim is to implement energy transition processes towards more efficient, low-impact models. The companies in the Alfa Acciai Group have set themselves ambitious targets in this regard and have developed a number of measures for efficiency, ongoing improvement and reduction of the use of carbon materials from fossil sources.

More specifically, Alfa Acciai has set up together with A2A, Italy's largest multi-utility company, **Alfa Heat Recovery**, an innovative and efficient system to recover thermal energy from the steel mill, which is transferred to the Brescia district heating network. Alfa Acciai is increasingly focused on energy circularity and optimisation, thereby contributing to the decarbonisation of the townscape.





## System certifications

#### **Environmental and Energetic Management System**

As a proof of the ongoing environmental performance improvement policy, Alfa Acciai and Acciaierie di Sicilia have implemented the **ISO 14001 Environmental Management System** since 2005, a means of ensuring to all stakeholders that the utmost respect for the environment is pursued and achieved. Certification makes it possible to identify the sustainability issues of the production process, assess its impacts and monitor the effects on environmental matrices, and seek the best techniques for taking action and intervention.

Since 2023 Alfa Acciai and Acciaierie di Sicilia have been certified ISO 50001, the Energy Management System which aims to facilitate the process of identifying, recording and evaluating energy results and is the best tool for managing and implementing corporate Energy Policy.

Alfa Acciai's strategic priority is the **ongoing improvement** of performance, including energy through the implementation of energy efficiency measures in production processes and related ancillary services so as to reduce the impact on the environment.



#### Corporate Carbon Footprint (CCF)

In 2023, the Alfa Acciai Group obtained the CCF certification for all its production facilities and is now among one of the first Italian companies obtaining it.

This is a method for measuring and reporting greenhouse gas (GHG) emissions caused directly and indirectly by an organisation. It is expressed in tonnes of CO2 equivalent.

This certification represents the Group's renewed endeavour and constant striving for improvement and focus on achieving ever higher levels of sustainability and decarbonisation on the one hand and, the starting point to define an intervention plan with the objective of mitigating its GHG emissions through specific measures and investments on the other.

#### SUSTSTEEL

Alfa Acciai and Acciaierie di Sicilia are among the first companies to be awarded the SustSteel (sustainable steel) certification, which was established at European level by Eurofer with a view to promoting its members' legitimate interests in the construction steel industry as part of corporate sustainability and social responsibility.



## **Product certifications**

#### **Recycled material content**

The minimum content of recycled material at Alfa Acciai and Acciaierie di Sicilia products is 99%. This figure is among the highest in Europe and far exceeds the Minimum Environmental Criteria for instrumental applications set by the CAM-EDILIZIA, which is Italy's most important environmental Standard in the construction industry.





All products (bars, coil, mesh, wire rod, Alfa Sinstone<sup>®</sup> and Gripstone<sup>®</sup>) as to Alfa Acciai, and bars and spooled coils as to Acciaierie di Sicilia bear the Environmental Product Declaration (EPD) required to meet LEED standards. In this way, the Group communicates, in a clear and transparent manner, to the market the environmental impacts of the company's products, from the extraction of raw materials to their disposal, thereby contributing to increase the rating value of the end product.



#### ICMQ ECO GOLD

Alfa Acciai and Acciaierie di Sicilia bars and coils are also certified to ICMQ ECO Gold, a sustainability label that measures product performance based on three thematic areas: environmental protection, resource conservation and energy saving.





## **Environmental communication**

#### **Sustainability Report**

The Sustainability Report, that the Alfa Acciai Group first published in 2021, is the main reporting tool used by companies to communicate, with transparency and according to internationally recognised methods, the objectives, performance and strategies adopted in relation to ESG issues.

In addition to governance and social issues, this report details the Group's environmental performance, including materials consumption, waste management, energy efficiency, and emissions management and monitoring.



#### Alfa Acciai Observatory

Set up in 2007, the observatory is a roundtable created and operated under the auspices of the Brescia Town Council. It periodically assesses the impact of the Brescia premises on the environment and provides an effective and comprehensive approach to engaging with the local community on environmental issues.



# HUMAN RESOURCES: THE GROUP'S CORE ASSETS

#### Social responsibility

Employees and collaborators are essential to the success of the company. As a result, the Group's companies protect and develop human resources in order to improve and increase the skills of each and every person. A people-focused approach is based on the principles set out in the Code of Ethics.

The Group's workforce is currently over **1,200 employees** in Italy, most of whom are employed on a permanent basis (97%). The Alfa Acciai Group achieves and provides stability by ensuring the ongoing presence of highly experienced professionals and offering them long-term relationships.



#### Focus on wellbeing

The Alfa Acciai Group deems caring for employee wellbeing as essential for creating a corporate climate that values people and fosters a good work-life balance. The Group is committed to continually engaging with union organisations in the joint aim to ensure and meet the needs of employees.



#### Training and professional development

Strengthening the intellectual assets, the growth and development potential, the staff's level of expertise and motivation is the way to foster the sustainable growth of a business.

Internal and external ongoing organised training is the prerequisite on which the Group focuses its Human Resources management policy, which aims to enhance the individual's skills and develop them as part of teamwork.

Training is a continuous and ongoing process, whereby education requirements are identified and the effectiveness of learning activities is evaluated through the conception, planning and delivery of training courses.

This approach ensures constant growth in skills and fosters a dynamic and collaborative working environment.



#### Safety in the workplace

The Alfa Acciai Group views safety as central to its business, and this is why each company is committed to continually implementing measures that improve the workplace and safeguard the health of employees and collaborators.

The Alfa Acciai Group adopts **Health and Safety Management Systems**, **in accordance with the UNI EN ISO 45001** standard, as tools guaranteeing the pursuit and achievement of high levels of health & safety protection of workers to all stakeholders.



#### Engaging with local communities

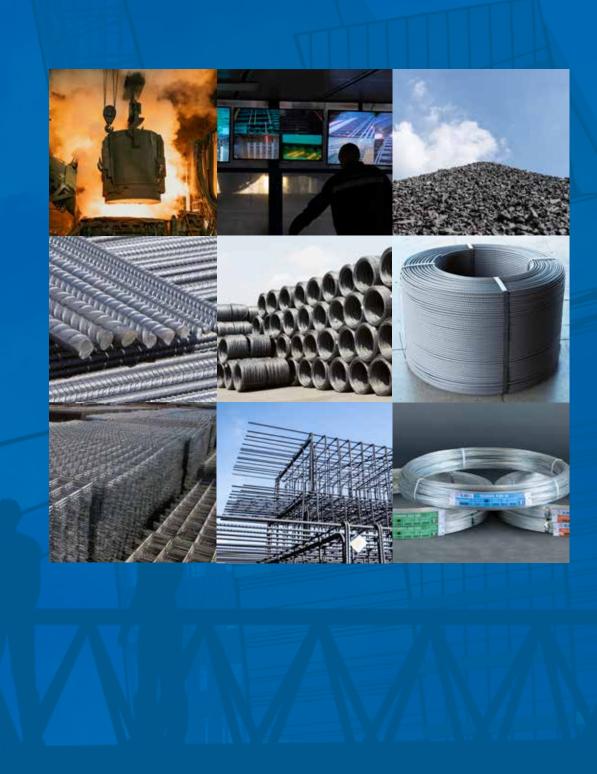
Focus on local communities involves all personnel. For Group's employees and collaborators, the expectations of people living in the area coincide with individual needs. As a result, the presence of companies belonging to the Alfa Acciai Group in local communities provides everyone with benefits and opportunities.



## Many factors to create an unequalled collaborative relationship

- → Extensive product range;
- → Product quality, which has always been ensured by continuous technological innovation, strict checks and the numerous certifications obtained;
- Prompt availability of products of various types and diameters, to meet all customer requirements promptly;
- Professional approach and commitment, making the Alfa Acciai Group a reliable partner;
- The consolidated expertise of our technical team, providing our customers with effective solutions;
- Customer support, which proves our reliability and continually maintains strong partnerships;
- → A highly efficient and flexible verticalized steel-making facility, firmly based on respect for people and the environment, which is widely recognized as a benchmark in circular economy.









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