

EN

COMPANY  
PROFILE  
2023



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A LARGE GROUP  
SUPPORTING  
EACH AND EVERY  
CUSTOMER

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For almost 70 years the Alfa Acciai Group has been a major producer of steel for reinforced concrete and wire rod in Italy and Europe. Business and management choices make it a technologically advanced entity, active along the entire steel supply chain and focusing effectively on environmental sustainability.

**Currently controlled by Siderurgica Investimenti holding, the Group has an annual production capacity of 2.5 million tonnes of steel and rolled products and employs 1,200-strong workforce.**

Great industrial flexibility and high operational efficiency, both upstream and downstream the smelting process, actively contribute to shaping the Group's distinctive character.

Market standing and identity are accompanied by strong equity and financial strength.

The Group's main production sites provide widespread and rapid covering in the domestic market and the bordering geographical areas. Different unit configurations make it possible to respond to a wide range of customers' operating needs, while ensuring high quality standards at all times.

 **ALFA ACCIAI**

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

 **Acciaierie di Sicilia**

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

 **FERROBERICA**

Ferroberica, a leader in Italy (second in Europe) for pre-shaping and assembling reinforcing steel for use in structural work; the four operating sites are located in Vicenza, Montirone (BS), Catania and Sedegliano (UD). It has been in operation for fifty years (1973-2023).

For further information, log on to [www.ferroberica.it](http://www.ferroberica.it).

 **TECNOFIL**

Tecnofil (Brescia), the drawing mill with the largest galvanising plant in Italy and one of the largest in Europe, which complements the wire rod production chain downstream.

For further information, log on to [www.tecnofil.net](http://www.tecnofil.net).

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ALL-IN-ONE  
ORGANISATION  
TO OPTIMISE  
PROCESSES AND  
PRODUCTS

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# Steel mills

## Alfa Acciai

Steelmaking gets underway from 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 220,000 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 total annual production capacity of about **2,000,000 tonnes**, liquid steel tapping, secondary metallurgical processing in the two ladle furnaces and casting in the two 5-line continuous casting machines.

The steel mill turns out two main 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®**, a granulate in an aggregate form for non-alloy materials, which is obtained from a plant with an annual production capacity of nearly 200,000 tonnes for use in civil engineering works and road construction. The product bears the CE mark, is marketed in compliance with UNI 13242 and also has EPD certification.





## 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 130 mm in the length range of 6-12 m, intended for in-house rolling process and trading;
- **a by-product with the same characteristics of the Alfa Sinstone® granulate** obtained from a plant with an annual production capacity of nearly 60,000 tonnes.





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



# Hot rolling

## Alfa Acciai

The facility is equipped with **three independent hot rolling mills**, with a production capacity of **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

The site is equipped with a **rolling plant** with a production capacity of around **500,000 t/y** and uses a hot-charge system.

This system turns out:

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



Welded wire mesh:  
**300,000 t/y**

Recoiled wire:  
**150,000 t/y**


# Downstream processing

## Alfa Derivati

In this production unit, Alfa Acciai hot-rolled ribbed coil is processed to produce:

- **Welded wire mesh** (produced in Brescia) using cold-stretching/rolling lines, which are required to give the mechanical characteristics to the wire making up the mesh, and welding machines with a production capacity of about **300,000 t/y**;
- **Recoiled wire**, i.e. hot-rolled and stretched rebar in coils mainly produced at the Montirone site to the south of Brescia, using drawing machines, with a total production capacity of about **150,000 t/y**. This mainly export-oriented site has a direct railway link that makes increasingly sustainable logistics easier.





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

# A comprehensive range of steels

## Construction steels

Alfa Acciai and Acciaierie di Sicilia produce reinforcing steel in bar, in coil and welded mesh in accordance with the following specific **domestic standards**:



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 criteria for the design of reinforced concrete structures of buildings and civil engineering works and **classifying steels according to their characteristics**.

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



A large stack of wire rod coils in a warehouse. The coils are arranged in neat rows, extending into the background. The wire rod is a dark, metallic grey color. A red circular graphic is overlaid on the center of the image, containing white text.

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

## **Wire rod**

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**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 mesh.

**EN ISO 10025:** Hot-rolled products for structural steel grades

Part 2: Technical delivery conditions for non-alloy structural steels

Part 5: Conditions for structural steels with improved atmospheric corrosion resistance.

**Applications:**

Non-alloy steels for Structural Applications (also available with improved resistance to atmospheric corrosion) as is or by cold drawing.

**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

The support which the Alfa Acciai Group provides for customers goes beyond supplying products, featuring an organised system of **integrated services designed to establish quality-oriented relationships**. Proactiveness, precision and skills underpin our integrated service, which commences with a specialist consultation on the functional characteristics of products, regulatory aspects of use and the management of materials on sites or in premises where they are used.

The customer remains at the **centre of the Alfa Acciai Group relationship process by providing technical, professional and commercial resources**, irrespective of how often or how much of a product is purchased.



*Product quality guaranteed by repeatability of their characteristics*

*Factories and warehouses close to motorways, ports and rail networks for intermodal transport*

*Major focus on product packaging*

*Widespread, expert sales network and in-house commercial department*

*Environmental certificates available*

*Ongoing after-sales support provided by business departments*

*Comprehensive, transparent product documentation*

*Responsive, efficient helpdesk*

*Clear batch labelling*

*Technical and regulatory advice from internal specialists*

*High stock in the warehouse*

*Up-to-date information on the website at [www.alfaacciai.it](http://www.alfaacciai.it)*

*Fast, punctual delivery*

*Reserved customer area on the Alfa Acciai website, with ongoing data archiving*



## 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

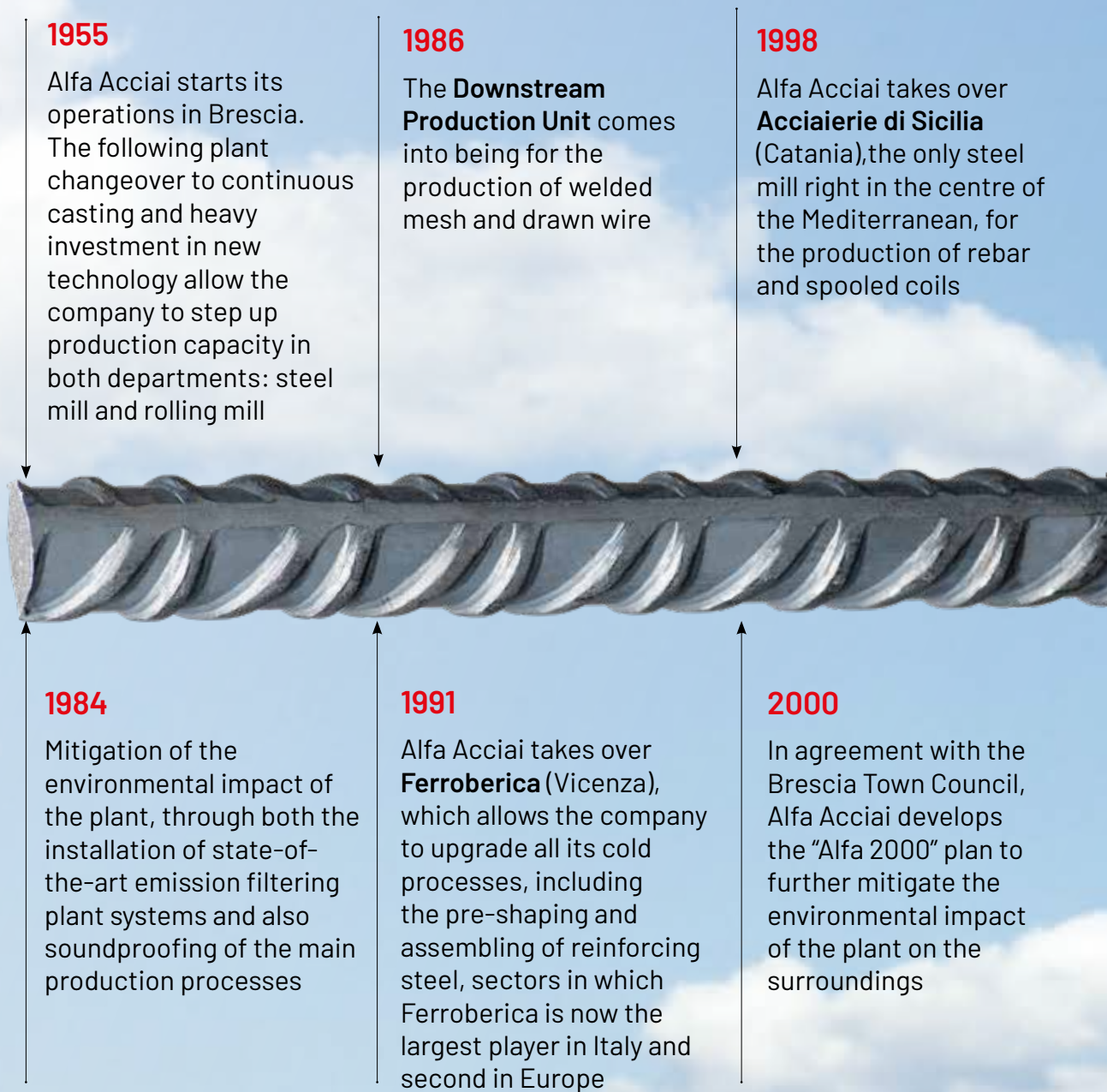
The Alfa Acciai Group is fully aware that a **responsible and sustainable** business strategy is crucial to achieving and especially maintaining competitive success. With this in mind, the Group keeps strengthening its relationship of trust with the communities in which its premises are situated and the various stakeholders, 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



**2004**

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

**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)



**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) and optimized its offering

**2021**

Increasingly focusing on key sustainability topics, Alfa Acciai has recently worked in partnership with A2A, Italy's major multiutility, an innovative and efficient system for recovering thermal energy from the steel mill.

*In 2021, the Alfa Acciai Group decided to disclose its commitment to social and environmental issues with its **first Group Sustainability Report**, which is available on each group company's site ([www.alfaacciai.it](http://www.alfaacciai.it), [www.tecnofil.it](http://www.tecnofil.it) and [www.ferroberica.it](http://www.ferroberica.it)) and to which reference is made for more details.*

# Quality as a fundamental 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, both in terms of efficiency and quality production process.



## Quality commitment distinctive features

- A statistical process control system designed to prevent errors, therefore logged checks are carried out in each crucial phase of the process.
- Incoming materials, such as ferroalloys and process additives, are sample tested via X-ray fluorescence spectrometry (XRF) with laboratory and portable instruments, or via Atomic Absorption Spectroscopy.
- Compliance of the finished product with standards is tested by qualified technicians, working in labs equipped with the latest state-of-the-art technology; Chemical analyses by Direct Optical Spectrometry (quantometer) and C-S (carbon-sulphur) and O-N (oxygen-nitrogen) analyzers are carried out in the steel mills; Each company in the group is responsible for certifying the mechanical and geometric characteristics so as to ensure product quality.
- Alfa Acciai's metallurgy laboratory, equipped with a cutting-edge optical microscope and state-of-the-art Image Analysis Software, can automatically perform steel phase analysis, inclusion grade and decarburization contents, as well as perform Failure Analysis for the group's customers.





## Quality Management System

All Alfa Acciai Group companies 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.

The quality system can be defined to be **inclusive** as it begins with the design of the **supply chain** and is articulated in process and product development to optimize supplies, ensure process repeatability and guarantee customer satisfaction. **Attention to detail** is applied company-wide as all functions are involved in processes aimed at enhancing and ensuring the quality of the product and service offered.



## Digitalising and tracking product flows and logistics

The Alfa Acciai Group has stayed ahead of the game in improving product and service quality, by investing heavily in the digitalisation of processes and Industry 4.0 dynamics. In particular, the company decided to interface production plants with specific information systems, to tap into available data and ensure product quality and traceability.

Evidence of this commitment is the development and implementation of the new **ERP system** at Alfa Acciai and Acciaierie di Sicilia to better forecast demand and meet market requirements. This has resulted in numerous benefits, including improved production planning and scheduling, optimised planning for the purchase of raw materials and the production of semi-finished goods, organised management of supply deliveries and tracking of materials purchased by the steel mill, accurately controlled consignments of finished products with optimised warehouse management.



# Ethics and business teamed up for environmental sustainability

## All-round sustainability

Sustainable approach to future economy through increasing circularity and use of matter: this is the mindset of the Alfa Acciai Group, which is committed to enhancing the value of any waste generated by transferring it to other circular economies, feeding the value chain and thus promoting the recovery of matter.

## Circular economy of steel

Steel is the most recyclable and recycled material in the world, and every year the Alfa Acciai Group recovers more than 2 million tonnes of iron scrap through its EAF steel mills located in Brescia and Catania. The end product is certified as containing more than 97 percent recycled material thus guaranteeing the market of truly "green" products eligible for LEED credits. This is a very high percentage compared to other construction materials, which Alfa Acciai and Acciaierie di Sicilia have far exceeded, even reaching 99% in 2022.

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 among the company, the environment and the local community.

## Energy transition

Steel production plants that smelt scrap with electric arc furnaces (EAF) are particularly energy-intensive, and decarbonisation is one of the greatest challenges facing the industry. The main objective is to implement energy transition processes using more efficient, lower-impact models. The companies in the Alfa Acciai Group have set ambitious targets in this regard, and are developing numerous actions to increase efficiency, improve continually and reduce the use of carbon-bearing materials from fossil fuels.

As a result, Alfa Acciai has implemented an innovative, efficient system to recover heat from the steel mills in conjunction with A2A, a major Italian utility company, and thermal energy is fed into the district heating network. Alfa Acciai is therefore working towards energy circularity and reuse, thereby contributing to decarbonisation on in-town environment.

## Energy Management System (ISO 50001)

In 2022, the Brescia-based Alfa Acciai was awarded **ISO 50001** certification, the Energy Management System aimed at facilitating the process of identifying, recording and evaluating energy-related results and representing the best tool for managing and implementing the corporate Energy Policy.





## Environmental certification

The environmental corporate accountability that has always characterized the Alfa Acciai Group has taken concrete form since 2005, when Alfa Acciai and Acciaierie di Sicilia first, later followed by Tecnofil, obtained **ISO14001 environmental management system** certification. As a tool for all stakeholders which ensures that respect for the environment is pursued and achieved at the best, the certification helps to identify sustainability aspects, assess their impact and monitor their effects on environmental matrices, seeking the best available practice for action and intervention.



Alfa Acciai and Acciaierie di Sicilia are among the first to obtain SustSteel (sustainable steel) certification. Created in Europe by Eurofer, this mark was developed to promote products for the construction steel industry as part of its members' sustainability and corporate social responsibility policy.



All products (bars-coils-wire and Sinstone®) have obtained the **Environmental Product Declaration (EPD)**. As a result, the Group discloses the environmental impacts of Alfa Acciai and Acciaierie di Sicilia products to the market clearly and transparently.



Bars and coils also come with ICMQ ECO Gold certification, a sustainability label that rates product performance based on three areas: environmental protection, preservation of resources and energy saving.

## Sustainability report



As a new feature of the Group's communication, the Sustainability Report was published for the first time in 2021. In addition to governance and social issues, the document analyses the Group's environmental performance in detail, including consumption of materials, waste management, energy efficiency and the management and monitoring of emissions. Please refer to it for further details.

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HUMAN  
RESOURCES:  
THE GROUP'S  
CORE ASSETS

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## 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 in the Code of Ethics.

The Group's workforce currently stands at approximately **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

The Group considers professional development and career progression as central to business development. The Group is committed to delivering regular company-wide training courses on different topics relating to technical matters, conduct and management, in order to facilitate professional development and update the skills and knowledge of personnel.



## 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 occupational safety management system, which complies with the UNI EN ISO 45001 standard,** is the main organisational tool used to plan, implement and verify the pillars of company strategy agreed with all stakeholders.



## Engaging with local communities

Our focus on local communities involves all personnel, and the expectations of the Group's employees and collaborators are consistent 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 a unique collaboration

- **Extensive product range;**
- **The quality of our products,** which has always been ensured by continuous technological innovation, strict checks and the numerous certifications obtained;
- **The immediate availability of products** of various types and diameters, to meet all customer requirements promptly;
- **The consolidated expertise of our technical team,** providing our customers with effective solutions;
- **Professionalism and commitment,** making the Alfa Acciai Group a reliable partner;
- **After-sales service,** demonstrating the strong partnership we have with our customers;
- **A highly efficient and flexible verticalized steelmaking facility** that has always been mindful of people and the environment, and it is no coincidence that it has become a model of the circular economy.

 **ALFA ACCIAI**  
Group





Via San Polo, 152

25134 Brescia - Italy

Log on to

[www.alfacciai.it](http://www.alfacciai.it)