FERROBERICA

Supporting projects and providing solutions for over 50 years

The entire history of Ferroberica is based on flexibility

Our identity has never been defined by a rigid model. We have always been able to meet various construction requirements regarding pre-shaping and assembly, and provide installation services if required.

Established in 1973 and taken over by Alfa Acciai Group in 1991, Ferroberica has gradually built up a solid position in an increasingly demanding market over its fifty years of activity.

Ferroberica is now the **leading operator** in Italy and the second in Europe in the **pre-shaping and assembly** of reinforcing steel with a total production capacity of **400,000 t/year**.

The organisational setup currently includes:

- 1 production unit at the historic premises in Vicenza, which is where the registered office is located
- 2 production units in Catania
- 1 production unit in Sedegliano (Udine)
- 1 production unit in Montirone (Brescia)
- Partners located throughout Italy to ensure better customer service, quick product delivery and effective customer care.

Ferroberica is the ideal partner of construction enterprises for all types of road, rail and maritime infrastructure, and buildings for public, civil and industrial use.

FERROBERICA

We give shape to an industrial system that is fully integrated

Belonging to the Alfa Acciai Group, a European leader in the production of EAF steel destined for the construction industry, has enhanced Ferroberica's specialist offering, positioning the company within an integrated system conveying great reliability, efficiency, quality and skill.

As a result of the synergy with the Alfa Acciai Group, Ferroberica guarantees complete control of the supply chain and the **integrated management of the entire process**, from scrap raw material through to the production of rebars, coils and welded mesh, and the downstream automated processing of rebar.

The exclusive use by Ferroberica of reinforcing steel produced at Alfa Acciai and Acciaierie di Sicilia, in addition to meeting both national and international regulatory requirements, is a guarantee of reliability, product traceability and process repeatability for the client company, which results in fewer site checks on acceptance, in accordance with the Technical Standards for Construction.
Being part of the Group means that Ferroberica has access to unlimited quantities of reinforcing steel, as the Group's total yearly capacity is **2.5 million tonnes** of steel and rolled products.

Production capacity and belonging to the Group combine with an organizational structure that enables Ferroberica to meet all customer requirements in terms of **quantity, quality and type** of work requested in accordance with implementation timescales. This means the company is a reliable and competent partner in the project analysis and design phases, including initial site planning.

FERROBERICA

Consistent in quality, versatile in solutions

The Montirone site is the most automated pre-shaping centre in the world

Quality has always featured in Ferrroberica's operations, and is demonstrated by the systematic approach to checks and the importance of the accreditation achieved. Processing steel produced within the Group is essential for ensuring consistent quality, as is the use of cutting-edge technologies that offers considerable versatility in meeting market requirements.

In line with the Alfa Acciai Group's mission, Ferroberica's strong focus on **customer care** is implemented consistently with the Group's position as a national leader in the production of reinforcing steel. This is demonstrated by the fact that Ferroberica operates on the basis of specific customer requirements that call for a versatile approach and targeted solutions, **considering all items to be produced in detail**.

Customer supply requirements are managed by a **Project Manager** right from the preliminary analysis phase. The P.M. liaises with Ferroberica's corporate structure consisting of a team of **engineering and technical staff**, using the very latest industrial 4.0 principles, as well as with outsourced professionals.

All Ferroberica production sites have obtained quality system accreditation in accordance with standard UNI EN ISO 9001:2015 from the Italian Institute of Quality (certificate no. 9934) and IQNet (certificate IT-5439 / IGQ 9934), along with the **accreditation as a processing centre**, as required by the current Technical Standards for Construction.

FERROBERICA

A team of value, driven by the culture of competence

The ability to respond positively to each order is the result of internal personnel taking ownership of their role and external resources who scrupulously comply with the methods, procedures and protocols set out by Ferroberica. The company has also invested heavily in training, in line with the technical and engineering developments that characterise the sector in the context of a smart manufacturing approach.

Ferroberica firmly believes that personnel are the company's most precious resource, and as such symbolise the company's identity and basis for future growth. As a result, the company involves and empowers their staff from the outset, engaging with them through specific examples and clearly identifiable models to provide a reference point for every employee.

This concrete approach also characterises the focus on human resources. This is why all company departments are systematically involved in meetings where ongoing improvement of internal dynamics and the relationship between colleagues are implemented between colleagues in the pursuit of set goals.
That's also why Ferroberica encourages its employees to foster a culture of professional skills through specific refresher courses and programmes.

FERROBERICA

One area where we're not flexible is:

safety

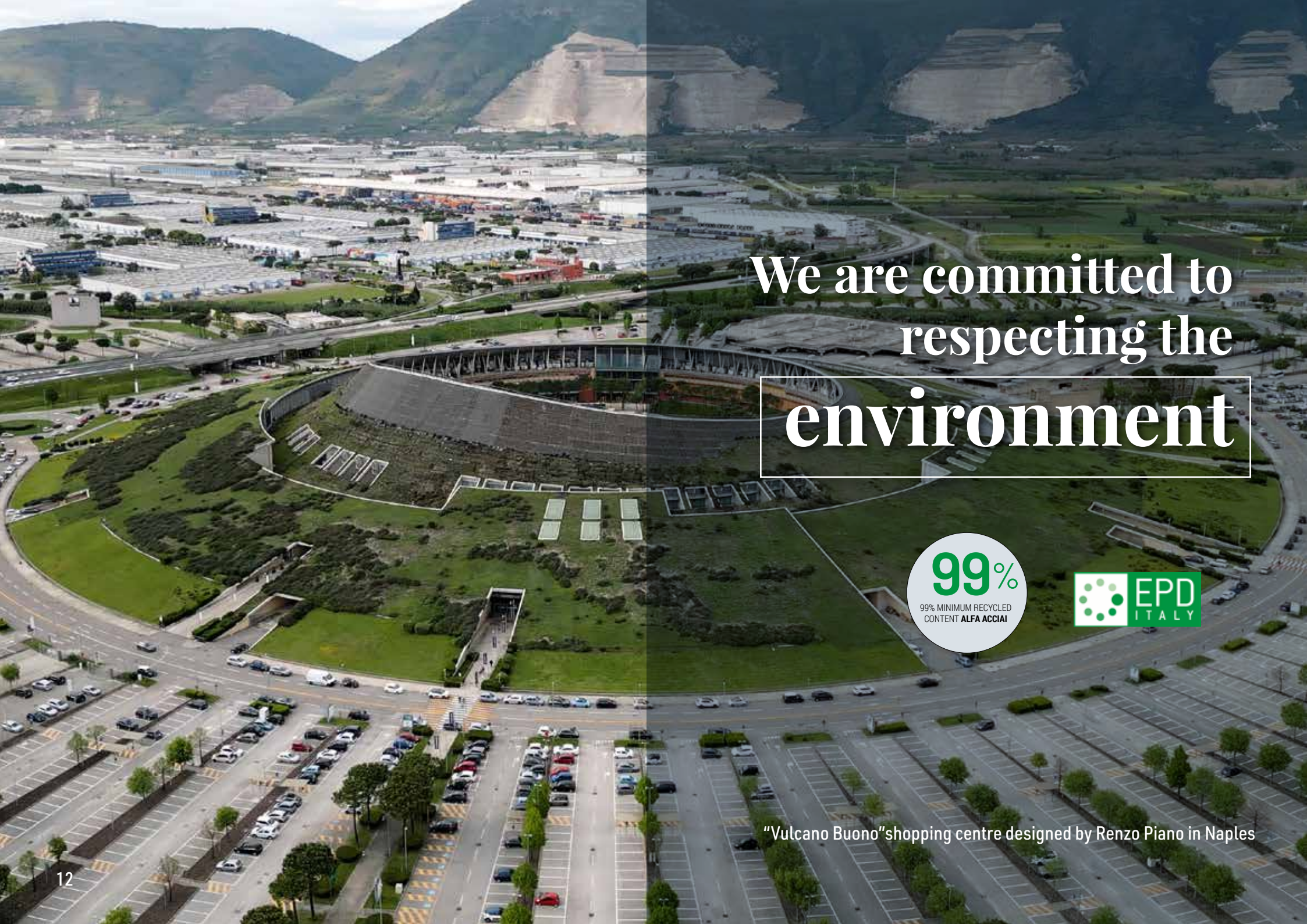
When it comes to company ethics we don't compromise. Ferroberica has always considered occupational safety issues as a distinguishing factor in company business operations.

In terms of employee health and safety, Ferroberica is fully in tune with the Alfa Acciai Group's strict protocols. Firstly, by adopting a Corporate Safety Management System aimed at continually identifying, assessing, reducing, eliminating and monitoring company risk factors, and since 2012 a **Governance Model has been in place in relation to health and safety in the workplace, in accordance with the requirements of Italian legislative decree 231 /2001**, optimized with the establishment of the Supervisory Board.

The safety of the entire process is guaranteed directly by Ferroberica's engineers who supervise all stages of operation, by **coordinating and supervising** the work of both in-house personnel and partner firms that Ferroberica uses on the basis of long-standing confidence.

Similarly, the company delivers **ongoing safety training** for all employees working on site and in production, who are kept up-to-date with regard to new technologies.

FERROBERICA



We are committed to respecting the environment

99%

99% MINIMUM RECYCLED CONTENT **ALFA ACCIAI**

EPD ITALY

"Vulcano Buono"shopping centre designed by Renzo Piano in Naples

Ferroberica's production process has very low environmental impact as it is classified as "Cold Working"; the Alfa Acciai Group's sustainability vocation is also intrinsic to its electro-steelmaking operations, as rebar is a naturally green material since 100% of the recovered steel can be recycled without losing its properties.

As certified according to UNI/PdR 88, Alfa Acciai Group's reinforcing steel **has a minimum recycled content** of 99% at both Alfa Acciai and Acciaierie di Sicilia, thus largely exceeding the Minimum Environmental Criteria for structural applications as specified by CAM - BUILDING.

The bars, coils and welded mesh used by Ferroberica and sourced from Alfa Acciai and Acciaierie di Sicilia have also obtained **EPD** (Environmental Product Declaration) **certification** in accordance with UNI EN ISO 14025, which measures the environmental performance of a product throughout its entire life cycle, according to the Life Cycle Assessment (LCA) methodology. Ferroberica has therefore been guaranteeing the market for some time of truly "green" products that can **benefit from LEED credits**.

As part of a logic of industrial process integration from scrap to construction site, the **development of a Ferroberica Product EPD** for each of its production centres and an **Organization Carbon Footprint** for the entire Group is quite recent.

As a means of transparent reporting of corporate performance to all stakeholders, the Alfa Acciai Group adopts the **Sustainability Report** whose reporting scope includes Ferroberica. This choice further reinforces the commitment that has always guided the management of issues related to economic, social and environmental sustainability.

FERROBERICA

We shape material into efficiency through innovative solutions

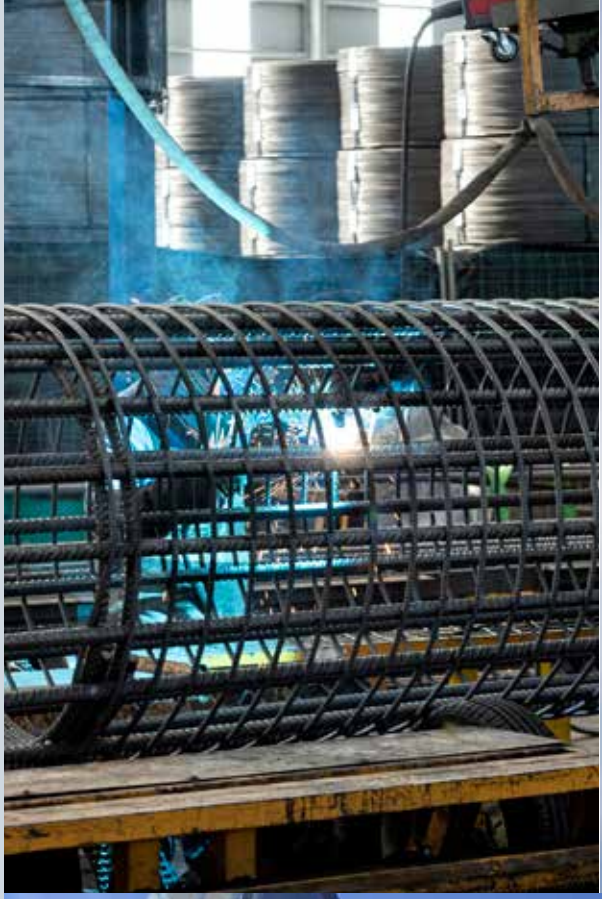
Ferroberica's proven streamlined business structure means quick production and delivery, while constantly aiming to improve service to the benefit of customers. Efficiency being a strategic plus for all market stakeholders, making Ferroberica a reliable partner from the engineering consultation stage through to the management of site operations.

Most notable in the focus on qualified procedures is **the welding** process: the personnel assigned to this task are qualified according to the **UNI EN ISO 9606-1:2017**, which testifies to a high level of professional skills. Furthermore, personnel responsible for checking the welding process have obtained certification issued by the Italian Welding Institute for visual weld inspections, in accordance with standard **UNI EN ISO 9712:2012 – Level 2**.

Efficiency is also ensured by the **large-scale prefabrication**, which has the following advantages over traditional installation:

- Reduced implementation timescales;
- No need to use scaffolding;
- Reduced accident risks: prefabrication is carried out at ground level (not at height);
- Greater productivity (working at ground level and not at height);
- Use of highly skilled personnel only for prefabrication and assembly and less specialised personnel for the lifting and installation of the prefabricated elements for the completion of works;
- Reduced number of personnel used for installation.

FERROBERICA



Feasibility studies

The technical department analyses the economic and technical aspects of the project, suggesting adaptations that enable the **economic and/or technical streamlining** of shaping, prefabrication and installation processes.
The main objective is customer satisfaction in terms of compliance with implementation timescales and production costs while ensuring maximum safety.

Operations are split as follows:

- **Feasibility study** of the reinforcements shown on the executive drawings, when preparing the economic offer;
- **Presentation of any suggestions aimed at improving the shaping, assembling or installation**;
- **Preparation of summary specifications** for reinforcements, split by construction work and structural elements;
- **Production plan** on the basis of schedules agreed with customer.

Since the initial stage of project assessment, Ferroberica takes care, through contacts and scheduled meetings with site points of contact, to **define delivery plans** on the basis of work schedules, thanks to partnerships with external companies, thus enabling rapid, reliable operations throughout the national territory.

Cutting and shaping

Ferroberica produces steel reinforcements for concrete on the basis of the design produced by the customer and the detailing resulting from in-house technical analysis. Development progresses by cutting and shaping **rebar, coils and welded mesh sourced exclusively from the Alfa Acciai Group**.

Shaped steel is produced through a structured organisation supported by the use of specific technical programmes based on the latest Industry 4.0 technology throughout the entire process: preparation of specifications and ID labels for templates of the material to be produced, the management of traceability of the heats used, and the functionality of cuts with subsequent shaping.

Last but not least, **state-of-the-art equipment** with optical readers is used for ongoing checking the number and shapes of the material turned out, which is set according to the dimensional parameters of the elements to be produced.

FERROBERICA

Assembling

Material is assembled on customer request and in line with certified welding processes carried out by trained, qualified personnel using cutting-edge technology.

The range of pre-assembled products includes:
- Steel framework for voussoirs in tunnel boring operations;
- Framework for slurry walls complete with inserts, space-saving elements and all types of intake systems;
- Framework for large elements and mixed structures;
- Reinforcement framework for masts of any diameter, bulkheads and prefabricated structural elements.
- Large-scale prefabbrication

Only rebars, coils and welded mesh manufactured by Alfa Acciai and Acciaierie di Sicilia are used to produce pre-assembled items.

A particular advantage during the assembly phase is the use of mechanical couplers with taper-threaded sleeves to join rebar.
These methods are used as an alternative to welding or overlaying bars, providing tangible benefits in terms of eliminating error and overcoming risk. The use of mechanical joints is especially suited to large complex structures such as bridges, viaducts, beams and large industrial constructions.

On-site installation

In accordance with customer requirements, Ferroberica can deliver materials that have been cut, shaped and assembled and, if stipulated contractually, install reinforcements on site.

A special, flexible and lattice structure enables optimal conditions of process efficiency to be achieved through partnerships with trusted companies, both on company premises during assembly, and on individual sites for installation purposes where contractually agreed.

The efficiency of the entire process is ensured by the Project Manager directly, who supervise installation and coordinate testing and acceptance in collaboration with the customer before each installation phase.

Customer care

The Ferroberica after-sales service testifies to the company's commitment to customer satisfaction.

Through the commitment of the Project Manager who keeps in touch with the technical department and production, Ferroberica can tailor supplies according to the specific needs of the individual construction site requirements and engages in pro-active dialogue with designers with a view to suggesting solutions and technical improvements.

Specific focus is placed on process management to ensure service quality, from loading methods through to site transport and the optimisation of delivery times.
Ferroberica continually monitors customer satisfaction. The results of assessments are applied for improvement in the production area and at all phases that contribute to achieving excellent customer service.

UNIVERSITY HOSPITAL COMPLEX "NEW SANTA CHIARA" CISANELLO – PISA

Some of the most significant references in Civil and Industrial Building Construction

CUSTOMER	TYPE	LOCATION
COVEXPO SOCIETÀ CONSORTILE S.C.A R.L.	CIVIL	Expo Village, Milan
CAMPUS BOCCONI S.C.A R.L.	CIVIL	Bocconi University Campus, Milan
CO.VAR. S.C.A R.L.	CIVIL	"Varesine Business District, Porta Nuova Milan
MALCO S.C.A R.L.	CIVIL	Former Cotorossi area redevelopment, Vicenza
MONTELUCE S.C.A R.L.	CIVIL	Monteluce area redevelopment, Perugia
ICM S.P.A.	CIVIL	M9 - 20th-century Museum, Mestre Venice
COOP. COSTRUZIONI S.C.A R.L.	CIVIL	Saint-Orsola-Malpighi Hospital, Bologna
C.O.MES. S.C. R.L.	CIVIL	Dell'Angelo Hospital, Mestre
IMPRESA DEC S.P.A.	CIVIL	Pope John XXIII Hospital, Bergamo
SANGECO S.C.A R.L.	CIVIL	San Gerardo Hospital – Monza
C.M.B. SOC. COOPERATIVA	CIVIL	Santa Maria degli Angeli Hospital, Pordenone
ITINERA S.P.A.	CIVIL	San Raffaele Hospital, Milan
D'AGOSTINO COSTRUZIONI GENERALI S.R.L.	CIVIL	Sibari Hospital, Cosenza
GKSD EDILE S.P.A.	CIVIL	Galeazzi Hospital, Milan 1
NUOVO SANTA CHIARA HOSPITAL S.C.A R.L.	CIVIL	New Santa Chiara University Hospital Complex in Cisanello, Pisa
JV CMC/CCC	CIVIL	Dal Molin US Military Navy Base, Vicenza
IMPRESA PERCASSI S.P.A.	CIVIL	Ederle US Army Garrison, Vicenza
CIMOLAI S.P.A.	CIVIL	Camp Darby General Army Depot, Leghorn
ING. E. MANTOVANI S.P.A.	INDUSTRIAL	Industrial base plate for Expo 2015, Milan
C.M.B. SOC. COOPERATIVA	INDUSTRIAL	UNIPOL Industrial tower, Bologna 3
C.M.B. SOC. COOPERATIVA	INDUSTRIAL	City Life Libeskind Tower, Milan
C.M.B. SOC. COOPERATIVA	INDUSTRIAL	City Life Hadid Tower, Milan
C.M.B. SOC. COOPERATIVA	INDUSTRIAL	UnipolSai Tower, Porta Nuova, Milan
ICM S.P.A.	INDUSTRIAL	Gioia 20 Tower, Porta Nuova, Milan
COOP. MURATORI & CEMENTISTI –C.M.C	INDUSTRIAL	Building upgrading of the Banca Depositi e Prestiti bank, Rome
VINCI CONSTRUCTION	INDUSTRIAL	TO-LYON Tower, Lyon - France
VULCANO S.C.A R.L	INDUSTRIAL	Vulcano Buono shopping centre, Naples
ICM S.P.A.	INDUSTRIAL	Le Contoniere Shopping centre, Salerno
CANTIERI COMMERCIALI S.R.L.	INDUSTRIAL	Merlata Bloom shopping centre, Milan 2
ING. E. MANTOVANI S.P.A.	INDUSTRIAL	Offshore LNG terminal, Porto Levante, Rovigo
COBAR S.P.A.	INDUSTRIAL	Basento water catchment project in Banzi, Potenza
SERVOLA SOC.CONS. A R.L.	INDUSTRIAL	Servola waste water purification plant, Triest
COOP. MURATORI & CEMENTISTI –C.M.C.	INDUSTRIAL	Hydrological works for the Emilia Romagna Canal (CER), Ravenna
FERROCEMENTO – RECCHI S.P.A.	INDUSTRIAL	Hydrological works for the Lessino Euganeo Berico (L.E.B.) consortium, Vicenza
L. & C. LAVORI E COSTRUZIONI S.R.L	INDUSTRIAL	Installation of wind tower basements in Sicily and Apulia 4
C.M.B. SOC. COOPERATIVA	INDUSTRIAL	ST-Microelectronics plant, Catania

Some of the most significant references in ROAD infrastructures

CUSTOMER	LOCATION
RAMONTI S.C.A R.L.	A4-A21 Motorway junction
SERENISSIMA COSTRUZIONI S.P.A.	A31 Valdastico motorway, Vicenza
CONSORZIO B.B.M.	A35 BreBeMi motorway
MARCALLO S.C.A R.L. A4	Turin-Milan motorway, Bernate Ticino (MI) bypass
TILIAVENTUM S.C.A R.L.	A4 Venice-Triest motorway third lane
PAVIMENTAL S.P.A.	A1 Milan-Naples motorway, Barberino del Mugello (FI)
PIZZAROTTI & C. S.P.A.	A18 Catania motorway, Siracusa (Sicily)
PIZZAROTTI & C. S.P.A.	A3 Salerno-Reggio Calabria motorway
CO.SI.GE. S.C.A R.L.	A18 Siracusa-Gela motorway
CONSORZIO STABILE SIS S.C.P.A.	Pedemontana Veneta motorway
PADERNO S.C.A R.L.	New Rho-Monza-Milan S.P. 46 district road
TUNNEL 64 S.C.A R.L.	Porretana S.S. 64 main road railway junction
DONATI S.P.A.	Bronte-Adrano Pedemontana Etna S.S. 284 main road (CT) 1
EMPEDOCLE S.C.P.A.	Porto Empedocle-Caltanisetta S.S. 640 main road
EMPEDOCLE 2 S.C.P.A.	Caltanisetta-Agrigento S.S. 640 main road with a tunnel 2
SIRJO S.C.P.A.	Ionian Sea S.S. 106 main road
ITINERA S.P.A	Satu Mare ring road, Romania
PEDELOMBARDIA NUOVA S.C.P.A.	Construction of the B2-C section of the Pedemontana Lombarda motorway
WE BUILD ITALIA / ICM S.P.A / RAGUSANA LOTTO 4 S.C.A.R.L.	Ragusa-Catania road link

Some of the most significant references in RAILWAY infrastructures

CUSTOMER	LOCATION
PIZZAROTTI & C. S.P.A. RODANO CONSORTILE S.C.A R.L. / A.S.G. S.C.A R.L.	Milan-Bologna HST railway line
ITINERA S.P.A.	Treviglio-Brescia section of the Turin-Venice HST railway line
CONSORZIO COCIV	3rd Giovi Pass-Alessandria section of the Milan-Genoa HST railway line
CEPAV DUE	Verona-Brescia section of the Milan-Verona HST railway line 1
IRICAV DUE	Verona-Vicenza section of the Verona-Padua HST railway line 2
WEBUILD S.P.A. / PIZZAROTTI & C. S.P.A. / GHELLA S.P.A. / ITINERA S.P.A.	Naples-Bari HST railway line 3
CIMOLAI S.P.A.	Reggio Emilia railway station
BRENNERO TUNNEL CONSTRUCTION S.C.A R.L.	Brenner tunnel base, Mules Campo di Trens Bozen
TELT (TUNNEL EURALPIN LIONE -TORINO)	Preparatory works in Modane
METRO B1 S.C.A R.L.	Rome Metro, Line B1
METRO BLU S.C.A R.L.	Milan Metro, Line 4
ICM S.P.A.	Naples Metro – Stations on Line e and Line 6
SOCIETE DU GRAND PARIS	Paris Metro (France) – Line 11 extension
COOP. MURATORI & CEMENTISTI - C.M.C.	Catania Metro
GRANDI LAVORI FINCOSIT S.P.A.	Florence tramway system, Line 2
CONSORTILE CATANIA MESSINA NORD E SUD S.C.A R.L.	Messina-Catania railway line doubling
C.M.B. SOC. COOPERATIVA	Andria-Bari underground railway line
DESIUM S.C.A.R.L..	Venice Airport rail link
CHRYSAS S.C. A R.L. / CONSORZIO PALERMO CATANIA E.D. / S. AGATA FS S.C.AR.L. / CONSORZIO TRISCELIO 3.	Palermo-Catania rail line

Some of the most significant references in SEAPORT and AIRPORT infrastructures

CUSTOMER	TYPE	LOCATION
COOP. MURATORI & CEMENTISTI - C.M.C	MARITIME	Pleasure port in Marina di Pisa
COOP. MURATORI & CEMENTISTI - C.M.C	MARITIME	Da Vinci Doors in Cesenatico-Forlì-Cesena
ING. E. MANTOVANI S.P.A.	MARITIME	MO.S.E. Surge Barrier at Lido in Venice 1
GRANDI LAVORI FINCOSIT S.P.A.	MARITIME	MO.S.E. Surge Barrier at Malamocco in Venice
CIMOLAI S.P.A.	MARITIME	Dry dock in San Giorgio di Nogaro, Udine
COOP. MURATORI & CEMENTISTI - C.M.C	MARITIME	Candiano Channel docks in Ravenna
COOP. MURATORI & CEMENTISTI - C.M.C	MARITIME	Piombino-Leghorn port extension with docks and chan
IMPRESA PIETRO CIDONIO S.P.A.	MARITIME	Outer dam at the Civitavecchia- Rome port
NUOVA DARSENA S.C.A R.L.	MARITIME	Nuova Darsena trading port in Naples
GIACOVELLI S.R.L.	MARITIME	Molfetta port, Bari
R.C.M. COSTRUZIONI S.R.L.	MARITIME	Multi-purpose peer mooring quay upgrade, Taranto
ING. E. MANTOVANI S.P.A.	MARITIME	Quay terminal for RO-RO container vessels, Fusina di Marghera (VE)
CGX COSTRUZIONI XODO S.P.A.	MARITIME	Cereal docks quay in Marghera, Venice
I.CO.P. S.P.A.	MARITIME	Port hub logistics platform, Triest
PORTO DI SIRACUSA S.C.A R.L.	MARITIME	Porto Grande upgrading, Siracusa
ENGECO-PASTOUR-BOUYGUES	MARITIME	Mareterra eco-district, oversea extension, Principality of Monaco 2
PERGENOVA BREAKWATER	MARITIME	Genoa's new foranea dam – Genoa Harbour
CIMOLAI S.P.A.	AIRPORT	New L. Da Vinci-Fiumicino airport foreside, Rome
TERMINAL SMP S.C.A R.L.	AIRPORT	Tessera airport extension, Venice
ICM S.P.A.	AIRPORT	Tessera airport extension, Venice

*Ministry of Infrastructure and Transport - Provveditorato Interregionale per le Opere Pubbliche del Veneto – Trentino Alto Adige – Friuli Venezia Giulia già Magistrato alle Acque di Venezia "– via the Consorzio Venezia Nuova Concessionaire

Why choose us?

Reliability throughout the entire process

Service efficiency and consultation

Strategic distribution

Collaborative expertise

Large production capacity and consistent quality

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