

# The Techint Group

Six main companies with international reach, all global or regional leaders in their fields, with deep roots in the countries where they are established, each with its own objectives and strategies, but all partaking an original philosophy of long term presence, commitment to local development, and a passion for quality and technology: this is the Techint Group, which in 2022 had total revenues of USD 33.6 billion and 60,000 permanent employees worldwide.

The companies are:

**Tenaris**, a leading global manufacturer and supplier of steel pipe products and related services for the world's energy industry and certain other industrial applications, has an integrated worldwide network of steel pipe manufacturing, research, finishing and service facilities. Tenaris has industrial operations in North and South America, Europe, Asia, the Middle East and Africa, and a direct presence in most major oil and gas markets.

**Ternium** is a leading company in the Americas that manufactures and processes a broad range of steel products using the most advanced technology. It has production facilities in Argentina, Brazil, Colombia, Guatemala, Mexico and the United States, and services its customers through an extensive service and distribution network. Ternium also participates in the control group of Brazil's largest steel company, Usiminas.

**Techint Engineering & Construction** provides engineering, procurement, construction, operation and management services for complex and large-scale projects all over the world. The company operates in market segments such as Oil & Gas, Power, Industrial Plants, Downstream & Chemicals, Mining, and Infrastructure & Architecture Civil Works.

**Tenova**, a worldwide partner for sustainable, innovative and reliable solutions in metals and mining, designs technologies and develops services that help companies limit environmental impact, reduce costs, save energy and improve working conditions.

**Tecpetrol** is a leading energy company dedicated to the exploration, production, transportation and distribution of hydrocarbons as well as power generation. The company operates in several Latin American countries, including Argentina, Bolivia, Colombia, Ecuador, Mexico, Peru and Venezuela. Tecpetrol pursues a program of constant investment in technology with a focus on the development of unconventional resources. Additionally, through its Energy Transition Business Unit, Tecpetrol is also generating a new profit center based on decarbonized energy sources, related technologies, and synergies with all the industrial companies of the Techint Group.

**Humanitas** holds a number of research-committed health care institutions of high complexity in Italy, managed through a patient-oriented approach, relying on state-of-the-art management models and integrated information technology systems.

Techint Group companies promote health and safety among employees, are careful of the impact of operations on the environment, establish transparent and constructive relations with local communities, foster long-term relationships with customers and suppliers, invest in human resources, pursue quality, excellence and technological development for a long-term and sustainable business.

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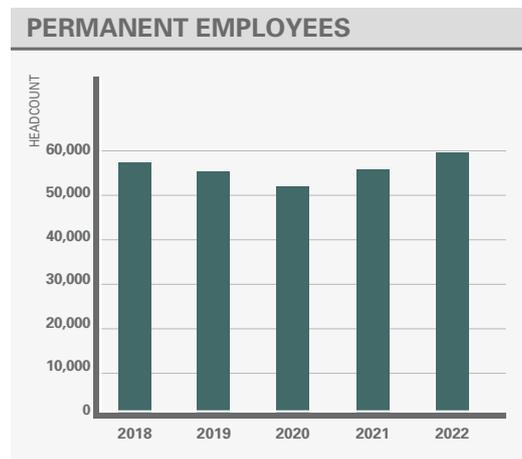
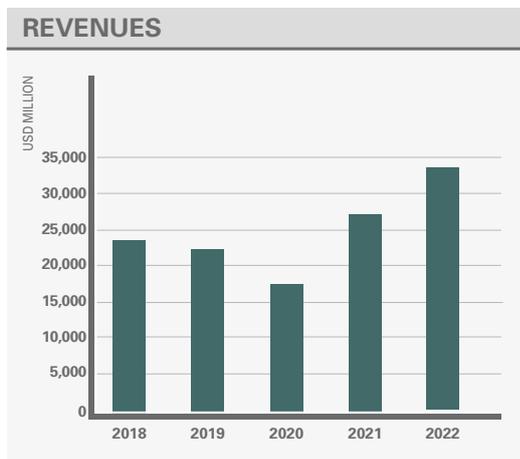
# The Techint Group

2022

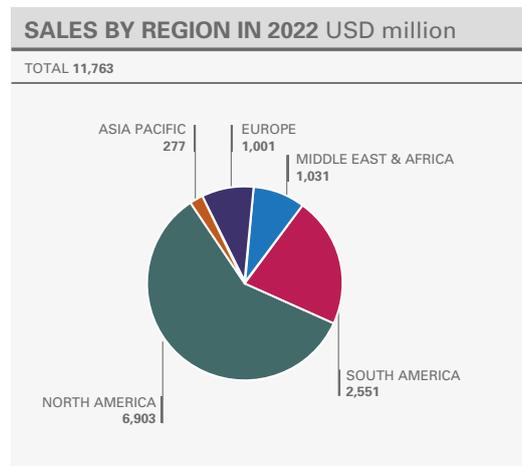
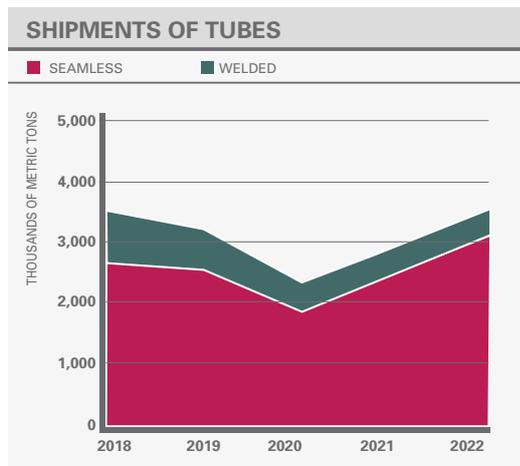
# Highlights

TECHINT GROUP HIGHLIGHTS USD Million					
	2018	2019	2020	2021	2022 <sup>1</sup>
<b>Revenues</b>	23,492	22,062	17,452	27,138	33,550
<b>Permanent Employees</b>	57,074	55,542	51,956	55,834	59,555

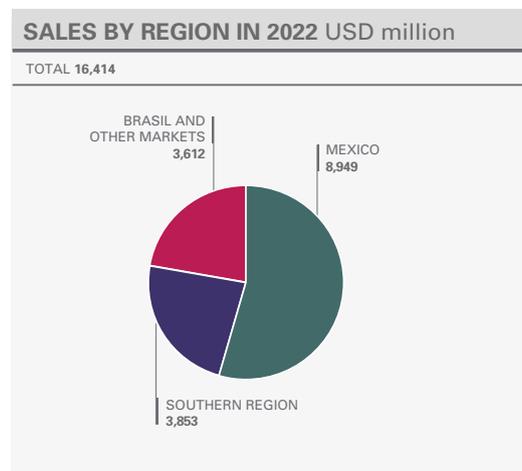
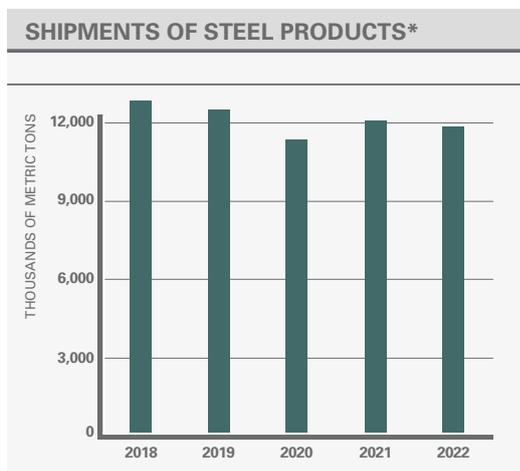
1. The 2022 data are preliminary.



## TENARIS

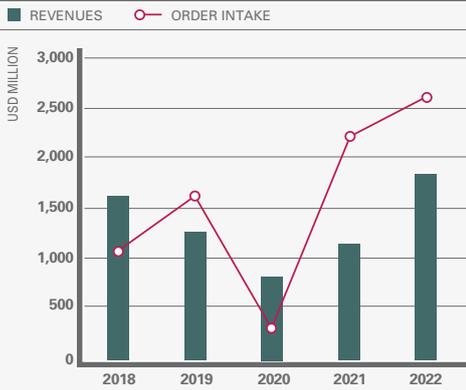


## TERNIUM

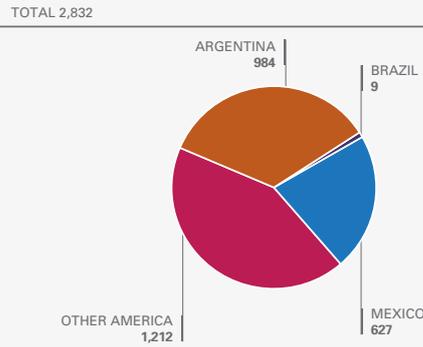


\*Shipments of pig iron not included.

### COMPANIES' PERFORMANCE

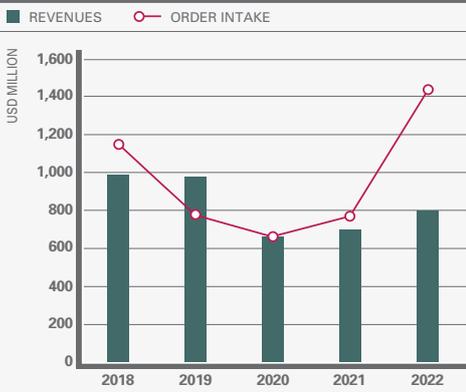


### BACKLOG OF ORDERS BY REGION AS OF 12/31/22 USD million

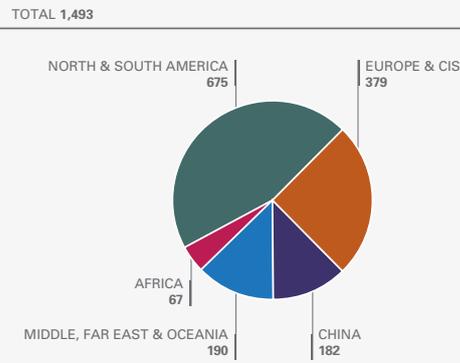


## TECHINT ENGINEERING & CONSTRUCTION

### COMPANIES' PERFORMANCE



### BACKLOG OF ORDERS BY REGION AS OF 12/31/22 USD million



## TENOVA

### PRODUCTION\*

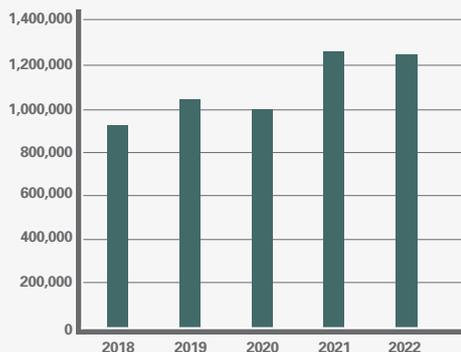


### PROVED RESERVES\*

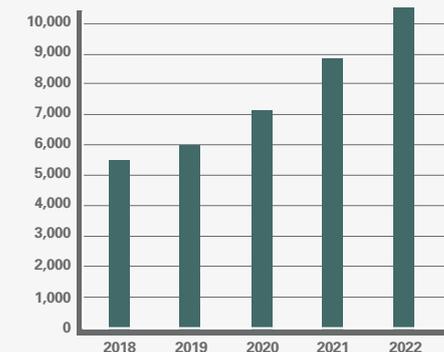


## TECPETROL

### HUMANITAS GROUP: UNIQUE CLIENTS



### HUMANITAS GROUP: IMPACT FACTOR



## HUMANITAS

# Origins and Expansion



Agostino Rocca  
(1895-1978),  
founder of the  
Techint Group.

*“Compagnia Tecnica Internazionale” - soon named TECHINT after the original telex code - was founded as an international corporation in 1945. The founder, Agostino Rocca, was an innovative engineer, manager and entrepreneur, and a key force behind the development of the Italian steel industry in the 1930s. The company initially provided engineering services to a growing number of customers in Europe and Latin America, where Agostino Rocca traveled after WWII. Construction activities soon followed: the first major Techint Engineering and Construction (E&C) project was a network of large diameter pipelines in Argentina and Brazil. After building the southern gas pipeline in Argentina (inaugurated in 1949) and completing other pipeline projects, the company’s E&C business expanded during the 1950s to the field of power infrastructure. In those early years, the company started producing steel structures and heavy mechanical parts and equipment near Buenos Aires in order to support the manufacturing ventures which soon followed.*

*Fueled by Rocca’s vision, the company expanded and diversified its original activities by building and then operating two seamless steel pipe manufacturing facilities, one in Veracruz, Mexico, and the other in Campana, Argentina. Both plants began production in 1954. In the late 1960s, a flat steel cold-rolling facility was built in Ensenada, Argentina, as the first step in a strategy for a fully integrated operation. Steel manufacturing was now the main industrial activity of the Techint Group. In the 1960s and 1970s, engineering and construction activities continued to grow as Techint became one of the world’s major pipeline and infrastructure builders, in addition to supplying turnkey plants for a range of manufacturing industries from steel to petrochemicals. In the 1980s, the company completed a series of major projects in Argentina, Brazil, Ecuador and Mexico, and diversified into new markets, building its first nuclear facilities and offshore oil and gas rigs. In 1980, Techint Engineering & Construction was among the first industrial companies to adopt computer-aided design (CAD) systems.*

*The following decade saw the Techint E&C companies making key contributions to energy integration in the Southern Cone, laying the pipeline network to link Argentina - Chile, Bolivia - Brazil, and Brazil - Argentina. In the early 2000s, the company simultaneously undertook two of the most challenging pipeline projects ever seen in the region, overcoming a range of natural obstacles in complex environments: the OCP crude oil pipeline in Ecuador and the Camisea gas and LNG pipelines project in Peru. The E&C companies also pursued projects in Egypt and Nigeria, working on the electromechanical assembly of power generation facilities and natural gas liquefaction plants. More recently, Techint Engineering & Construction has built a number of regasification plants in Latin America and Europe. Currently, Techint E&C is simultaneously engaged in several large-scale projects in different countries (see detailed references in the Techint Group Companies section). In over 75 years of activity, Techint Engineering & Construction has successfully completed more than 3,300 projects in more than 45 countries, and continues to work on major industrial and infrastructure projects around the world.*

*At the same time, Techint Group's steel pipes business also continued to grow.*

*In the mid-1980s it undertook a major export-oriented expansion of the Campana mill and acquired Argentine welded pipe-manufacturer Siat.*

*In the 1990s it also acquired control of the Veracruz mill in Mexico and the Dalmine seamless pipe mill in Italy.*

*Over time, steel pipe manufacturing facilities were also acquired in Brazil, Venezuela, Japan, Canada and Romania.*

*Tenaris, the company under which all the manufacturing and service activities in the steel pipe business are grouped today, went public at the end of 2002.*

*Its shares are listed on three stock exchanges: Mexico, Milan, and the New York Stock Exchange. Tenaris became a leading North American producer of welded OCTG, line pipe and coiled tubing with the acquisition of Maverick Tube Corp. in 2006 and in 2007, it integrated premium connections into its USA portfolio by acquiring Hydril. Tenaris also expanded its presence in other regions by acquiring TuboCaribe in Colombia, gaining control of Seamless Pipe Indonesia Java (SPIJ), an OCTG processing business, and completing its premium threading facilities in Saudi Arabia and in China.*

*Over the last decade, Tenaris has made a series of significant investments in North America. The most notable include a rolling mill in Veracruz, which began operations in 2010, and a greenfield seamless pipe mill in Bay City, Texas, which started operations late 2017, with an annual production capacity of 600,000 tons. TuboCaribe in Colombia also underwent major expansion, and in 2015 its plant began operations with an output of 250,000 tons of welded and seamless pipes. Tenaris also increased the production of sucker rods, with an expansion of the mill in Veracruz, Mexico.*

*In late 2018, Tenaris entered into an agreement to acquire 47.79 percent of the shares of Saudi Steel Pipe Company (SSP), a welded pipe producer, expanding Tenaris's product portfolio and services scope. The company completed the acquisition at the beginning of 2019.*

*In March 2019, Tenaris announced it had entered into a definitive agreement to acquire from PAO TMK, a Russian steel pipe manufacturer, 100% of the shares of its wholly owned U.S. subsidiary, IPSCO Tubulars, Inc. In January 2020, Tenaris completed the acquisition, enhancing its position and local manufacturing presence in the U.S. market where it has achieved vertical integration through the domestic production of steel, as well as extending its product offering and expanding its service footprint.*

*In 2020, Tenaris continued to invest in its North American operations, consolidating its Canadian industrial operations in Sault Ste. Marie, Ontario, with a USD \$150 million transformative investment, finalized in 2022, centralizing its seamless and welded pipe manufacturing under a single roof.*



From left to right:  
Gianfelice,  
Agostino (1945-2001),  
Roberto (1922-2003)  
and Paolo Rocca.

*The company entered into a joint venture with Inner Mongolia Baotou Steel Union Co. Ltd. to build a premium connection threading facility in Baotou, China. The new facility started producing in June 2022.*

*Today, Tenaris is a leading supplier of tubes and related services for the world's energy industry and certain other industrial applications. It has an integrated worldwide network of steel pipe manufacturing, finishing, service and research facilities with industrial operations in North and South America, Europe, Asia, the Middle East and Africa, and a direct presence in most major oil and gas markets.*

*Tenaris continues to strengthen its competitive position, investing heavily in research, developing digital solutions to enhance its customer service, and pursuing the continuous improvement of its talented workforce.*

*Cold rolling and downstream processing of flat steel in Argentina continued to grow through the 1980s. In 1992, the Group acquired from the state a majority share of Somisa, the largest integrated flat steel plant in Argentina, and brought it up rapidly to international production standards through a major investment program.*

*Steel coating and processing capacities were also expanded in the 1990s through investments and acquisitions. All Argentine flat steel facilities were then integrated in Siderar. In 1997, the Group participated in a consortium that acquired a controlling share of Sidor, the largest steel company in Venezuela.*

*In 2005, Ternium was created with the integration of Siderar, Sidor and Hylsa. Acquired in August of that year, Hylsa was the largest steel manufacturer in Mexico, and the one with the highest level of vertical integration, from the extraction and processing of iron ore to the manufacturing of high value-added steel products.*

*In February 2006, Ternium was listed on the New York Stock Exchange.*

*In 2007, Ternium took control over Grupo Imsa, a company with a strong presence in Mexico and processing facilities in Guatemala and the United States. In 2008, the Venezuelan government nationalized Sidor.*

*In 2010, Ternium completed the acquisition of Colombia-based Ferrasa, a leading long and flat steel products processor and distributor. That same year, Ternium and Nippon Steel signed an agreement to form a company in Mexico for the manufacturing and sale of hot dip galvanized and galvanized steel sheets to serve the Mexican automobile market.*

*In January 2012, Ternium became part of the control group of Usiminas, the largest flat steel producer in Brazil with 9.5 million tons of crude steel capacity. The company has strategically located facilities near the main consumers of steel in Brazil and iron ore mines in the Serra Azul region.*

*In September of 2013, Ternium inaugurated a modern industrial center in Pesquería, Mexico, a project developed by Ternium and Tenigal, the joint venture between Ternium and Nippon Steel & Sumitomo Metal Corporation. The industrial center produces high-end steel mainly for the automotive industry, with annual processing capacity of 1.6 million tons of cold-rolled steel and 475,000 tons of galvanized steel.*

*In February 2017, Ternium announced a definitive agreement with the German conglomerate Thyssenkrupp AG to acquire 100% ownership interest in Thyssenkrupp Slab International B.V. and its wholly owned subsidiary, CSA Siderúrgica do Atlântico Ltda. in*

*Brazil, with an annual processing capacity of 5.0 million tons of slabs. The acquisition, completed in September 2017, made Ternium one of the largest steel producers in Latin America and created a platform for a new stage of growth for the company.*

*In September 2017, Ternium announced the construction of a new hot-rolling mill in Pesquería, which is a state-of-the-art facility and started operating during the second semester of 2021, with an annual production capacity of 4.4 million tons.*

*In 2019, Ternium also inaugurated hot dip galvanizing and pre-painting lines in Pesquería, with an annual production capacity of 350,000 and 120,000 tons respectively, to strengthen its value chain and substitute imports.*

*At the end of 2020, a new plant in Palmar de Varela, Colombia, began operating in the testing phase, and in February 2021 the industrial center was finally inaugurated as Ternium's first greenfield project in this country.*

*In February 2022, Ternium announced a new investment plan for Pesquería, Mexico. It consists of a new cold rolling mill, a hot-dip galvanizing line, a push-pull pickling line, and new finishing lines, with a total capital investment of approximately \$1 billion, expected to be completed in 2024.*

*With an annual production capacity of approximately 12.5 million tons of crude steel, Ternium is one of the largest and most dynamic players in the Americas. The company continues to invest in its steel mills and in mining to increase production, improve quality and draw synergies from process integration and product specialization.*

*The Techint Group experience and skills in plant making have, since the beginning, been accompanied by the in-house manufacture of heavy equipment and industrial machinery. Starting in the 1980s, a series of acquisitions and expansions in Italy had multiplied the portfolio of products and leading technological solutions, particularly for the metals and raw materials industries. Important international acquisitions of leading companies took place in the mid-2000s under the Tenova brand, aimed at the dual objective of completing the offer in terms of technologies and products, and broadening and consolidating the geographical penetration. Today Tenova, founded in 2007, operates in 19 countries across five continents and its product lines include green innovative technologies for the metals and mining industries.*

*In the metals sector, Tenova works both upstream and downstream, continuously innovating for clients by focusing on quality, energy savings and environmental protection in areas including iron & steel and aluminum, hydrometallurgy, pyrometallurgy, grinding & texturing and port facilities.*

*Under the brands TAKRAF and DELKOR, Tenova provides innovative technological solutions to the mining and associated industries, providing mining, comminution, bulk material handling, liquid/solid separation and beneficiation equipment and services.*

*During the 1990s, the Techint Group led important oil & gas exploration and production operations in Argentina through Tecpetrol. In view of the results, Tecpetrol expanded its operations in Argentina and other countries of the region, such as Peru, Ecuador, Mexico, Colombia, Bolivia and Venezuela.*

*Tecpetrol also holds operating interests in other gas transportation and distribution companies that operate in Argentina, namely Transportadora de Gas del Norte (TGN), Transportadora de Gas del Mercosur (TGM) and Litoral Gas.*

*Tecpetrol continues to pursue the development of energy infrastructure projects, a synergic field of activity involving all the major strengths of the Group. Accordingly, as from 2016 Tecpetrol leads the operation, in partnership with Ternium and Tenaris, of a gas combined cycle power plant in Pesquería, near Monterrey, Mexico. With an investment of USD 1 billion, the 900-MegaWatts plant provides energy to Ternium and Tenaris facilities in Mexico.*

*From 2017 to 2019, Tecpetrol invested USD 2.3 billion at the Fortín de Piedra field in Vaca Muerta for the development of shale gas in Argentina. By the end of 2019, Tecpetrol had already achieved a level of production of 600 million cubic feet/day. This amount represents 14% of Argentina's gas production.*

*The Energy Transition Business Unit was created on October 1, 2020 in Tecpetrol, to generate a new profit center based on decarbonized energy sources, carriers, related technologies, and synergies with all the industrial companies of the Techint Group.*

*TechEnergy Ventures is a corporate venture capital (CVC) initiative created in 2022 by Tecpetrol's Energy Transition Unit, whose remit is to invest in and accelerate the development of disruptive technologies in the areas of carbon management, sustainable lithium extraction, clean power/electrification, and hydrogen and clean fuels.*

*In Italy, the Techint Group entered the health services sector in the mid-1990s by building and managing Istituto Clinico Humanitas (ICH), a state-of-the-art hospital and medical research institute near Milan. Humanitas has subsequently acquired controlling interests in other important private hospitals in Milan, Bergamo, Turin, Catania and Castellanza, where the successful technology-based and patient-oriented management model originally adopted in Istituto Clinico has been replicated.*

*Humanitas continues to invest in new health and science facilities, consolidating its position as a foremost private health company in Italy. For more than 10 years, Istituto Clinico Humanitas has been a teaching center for medicine, biotechnologies and nursing degrees thanks to an affiliation with the University of Milan. Its research center has become a world-famous hub of excellence for immune system related diseases, from cancer to rheumatoid arthritis. Since 2014, ICH also hosts Humanitas University, a private non-profit institution strictly integrated with the hospital. An international setting, innovative educational methods, cutting-edge scientific research and the close integration with first-rate hospital facilities are the pillars of Humanitas University.*

*Today, the Techint Group comprises six main companies operating worldwide through numerous subsidiaries, supported by a workforce of experienced professionals and skilled workers numbering 79,300 total employees, 60,000 of whom are permanent.*

*The global annual turnover of companies of the Techint Group, public and non-public, was USD 33.6 billion in 2022. The magnitude of operations of the main companies of the Techint Group may be gleaned from the following table:*

#### **Techint Group Companies - significant data**

Tenaris: total (seamless and welded) tube shipments in 2022 (million tons)	3.5
Ternium: shipments of steel products* in 2022 (million tons)	11.9
Techint Engineering & Construction: overall annual sales as of December 31, 2022 (billion of USD)	1.8
Tenova: backlog of work as of December 31, 2022 (million of USD)	1.5
Tecpetrol: oil & gas working interest including service contracts in 2022: (thousands bbl of oil equivalent/day)	193
Humanitas: unique clients in 2022 (million)	1.2

\* Excluding pig iron.

# Values

Techint Group companies share common values and **safety** is a foremost priority: the health and safety of everyone who works in each company of the Group and uses its products and services is the most important principle.

**Environmental protection** constitutes a commitment throughout Techint Group companies' activities, as each company is determined to minimize the environmental footprint of its operations.

**Transparency** in management and communications constitutes the fundamental value in the relationship Techint Group companies establish with their shareholders, customers, employees, suppliers and the communities where they operate.

The Techint Group is committed to building a corporate culture of transparency and integrity based on ethical behavior and compliance with the Law. This is essential for the long-term sustainability of its business in a competitive market environment. Throughout the history of the Group, the role of the founding Rocca family represents a continuity of this commitment and constitutes a benchmark for all the stakeholders involved.

The ethical dimension of a company goes far beyond compliance, and includes all issues, from respect for diversity and equal treatment for employees to the management of information and the transparency of data and community relations.

**Quality, excellence and technological development** for a sustainable industrial project: with a decades-long industrial heritage, the Group's industrial culture is based on a long-term view of the business, a constant pursuit of excellence and a rational and systematic approach to the challenges it faces.

The selection and training of professionals; the building of a stimulating and positive environment; shared ethical principles and behavior; a focus on safety; a great teamwork capacity to face difficult challenges; the recognition of professional competencies; transparent communication; an abiding respect for the culture of different countries; equal opportunities for professional growth; the adoption of rigorous control and management procedures, clearly demonstrate that **Human Resources** are at the center of Techint Group companies.

The presence in countries differentiated by their culture, environment and social and economic characteristics; the creation of multinational working groups testify the great value Techint Group companies recognize to **multiculturalism**.

The Group embraces **diversity** in all its forms: diversity based on ethnicity, gender, creed, race, nationality is part of the Techint Group companies' DNA and constitutes an important differentiation aspect of its uniqueness as a global enterprise.



# Community Relations



During 2022, we redesigned the learning environments for Roberto Rocca Technical Schools to strengthen project-based-learning, increase the number of students and open technical courses for students from other technical schools.

*The principle guiding Techint Group companies is to drive inclusive growth and development in the communities where they work and live, promoting a culture that rewards merit and encourages enterprise. Their objectives are to contribute to improving education in the immediate communities, to help preserve community's heritage, to encourage innovation through culture and to support their communities during crisis (health, education, humanitarian). Their seven strategic programs are designed globally and implemented locally, taking into account the particularities of each community. Roberto Rocca was convinced that education is a fundamental factor for the development of people and social mobility. He passed these beliefs on to all the Techint Group and today they are our core values. In 2022, to honor his legacy, we renamed our education programs after his name and established 10th June as our global Education Day. In addition, we launched the Roberto Rocca Educational Campus, offering free on line trainings to students and created an online website, [robertorocca.org](http://robertorocca.org), to share education articles and global best practices. In 2022, the investment was USD 39.5 million and 421,112 people from 19 countries participated in the programs and developed activities. The Roberto Rocca Technical Schools in Argentina and Mexico educate more than 800 secondary students, all of them with scholarships according to their needs. The Roberto Rocca Technical Gene program strengthens public technical schools providing on-the- job internships, trainings, and infrastructure reaching 12,632 students and teachers. The Roberto Rocca After School program offers extra hours of STEM education for 1,789 students between 6 and 15 years old. The Roberto Rocca Scholarships encourage good academic performance and promote the study of engineering at graduate level. Through the Volunteers in Action program, employees and their families are encouraged to contribute and strengthen bonds with the communities. The Techint Group promotes art through Fundación PROA in Buenos Aires and Galleria d'Arte Moderna e Contemporanea in Bergamo. With PROA's guidance, the companies implement Film Festivals and Photo Libraries in the communities. The Group preserves the historic heritage of their industrial facilities through Fondazione Dalmine in Bergamo, Italy. Moreover, the Group has supported with material's provision the mission of Toni Ruttiman, uniting communities by building suspension bridges with collaboration from those who then benefit from them.*

# Activities

*During more than 75 years of activity, the companies of the Techint Group have evolved, building upon the vast amount of experience gained in such areas as steelmaking; building of complex infrastructures; design and construction of industrial plants and machinery; technologies for the metals and mining industries; oil & gas exploration and production and research-oriented health facilities.*

*All along, Techint Group companies have maintained a deep commitment to efficiency, quality, integrity and respect for the value of individuals, promoting health and safety among employees, being careful of the footprint of operations on the environment, establishing transparent and constructive relations with local communities and long-term relationships with customers and suppliers.*

## Tenaris

*Tenaris offers advanced product technology and integrated supply chain management services on a global scale to customers that include the world's major oil and gas companies, as well as engineering and industrial companies.*

*Tenaris has manufacturing facilities in Argentina, Brazil, Canada, Colombia, China, Ecuador, Indonesia, Italy, Mexico, Romania, Saudi Arabia and the United States, a proprietary global service model supported by a worldwide distribution network.*

*Tenaris's annual production capacity is 4.7 million tons of seamless pipes and 3.1 million tons (rounded) of welded pipes.*

*The company employs approximately 25,000 people. Tenaris is the world leader in premium connections and is at the forefront in the development of the tubular technologies required not only to operate in the most demanding oil and gas fields, but also in high performance mechanical and structural applications. Tenaris is a public company, incorporated in Luxembourg, with its shares listed in Milan, Mexico, and its American Depository Securities listed on the New York Stock Exchange; it adheres to international standards of corporate governance, financial transparency and information disclosure.*



## **Ternium**

*Ternium is a leading steel producer in Latin America. It has an annual production capacity of approximately 12.5 million tons of crude steel. The company manufactures, processes and distributes a broad range of value-added steel products - including galvanized and electro-galvanized sheets, pre-painted sheets, tinplate, welded pipes, and hot-rolled and cold-rolled steel, as well as slit and cut-to-length offerings through its service centers. It services customers active in the construction, automotive, home appliances, capital goods, packaging, and energy industries. Ternium has more than 20,500 employees and production facilities located in Argentina, Brazil, Colombia, Guatemala, Mexico and the United States. In addition, Ternium participates in the control group of Usiminas, Brazil's largest steel company. Ternium is a public company listed on the New York Stock Exchange (NYSE:TX) since 2006.*

## **Techint Engineering & Construction**

*Techint Engineering & Construction provides a range of services including project management, engineering, procurement and construction for large-scale high-complexity projects in locations around the world.*

*Backed by more than 75 years of experience in the market, Techint Engineering & Construction develops high complexity projects, from design to execution, taking care of the environment and the welfare of surrounding communities.*

*With over 21,000 employees worldwide, the company has successfully completed more than 3,300 projects in compliance with ISO/BS/OHSAS international standards in America, Europe, the Middle East and Africa.*

*Currently, the company delivers services in the following market segments: Oil & Gas, Power, Industrial Plants, Downstream & Chemical, Mining, as well as Infrastructure & Architecture Civil Works.*

*The company's multilocal approach means each operation has a thorough knowledge of the technical standards, laws, regulations and tax structures applicable in each country. Similarly, Techint E&C develops relationships with the financial entities, labor unions and subcontractors in the regions where they operate, on the basis of a comprehensive understanding of local cultural norms.*

## **Tenova**

*Tenova is a worldwide partner for sustainable, innovative and reliable solutions in the metals and - through the well known TAKRAF and DELKOR brands - in the mining industries. Leveraging a staff of more than 2,200 forward-thinking employees across five continents, Tenova shares the long-standing principles of its industrial group and better understands its partners' needs. The company works alongside client-partners to design and develop innovative technologies and services that improve their business both today and in the future, creating solutions that help metals and mining companies limit environmental impact, reduce costs, save energy and improve working conditions for their employees. Together, the people of Tenova share a strong sense of passion for their work. By channeling this passion through professional expertise, they are able to anticipate trends and transformations within the industry, helping clients identify and take advantage of new opportunities the moment they are available.*

## **Tecpetrol**

*Tecpetrol has a long-standing record of leading large and complex energy projects in Latin America. These projects are related to upstream and midstream activities of the oil and gas industry and to the power generation industry. The fast-track development of unconventional resources in Vaca Muerta, a major Argentine field, has consolidated Tecpetrol as a regional leader in this area. The company has vast experience operating mature fields, applying enhanced recovery methods in order to extract the largest amount of oil available in the reservoirs. Additionally, through its Energy Transition Business Unit, Tecpetrol is also generating a new profit center based on decarbonized energy sources, related technologies, and synergies with all the industrial companies of the Techint Group. Furthermore, TechEnergy Ventures is a corporate venture capital (CVC) initiative that invests in and accelerates the development of disruptive technologies in various areas, including carbon management, sustainable lithium extraction, clean power and electrification, as well as hydrogen and clean fuels. This initiative enables Tecpetrol to remain at the forefront of technology advancements in the energy sector while supporting the growth of innovative solutions that promote sustainable development.*

## **Humanitas**

*In Italy, the Techint Group is active in health care through the Istituto Clinico Humanitas and the Humanitas Group. Humanitas promotes, implements and manages health care initiatives, research and teaching. The Humanitas Group includes the well-established, research-and teaching-focused Istituto Clinico Humanitas hospital near Milan, built by Techint, and prestigious private accredited hospitals in Milan, Bergamo, Turin, Catania and Castellanza (Varese). In 2014, Humanitas established an international medical university integrated with its hospital near Milan. Innovative educational methods, close integration with first-rate facilities and cutting-edge scientific research are the pillars of Humanitas University. The Humanitas network today includes 9 hospitals and 20 diagnostic centers. The autumn of 2017 marked the opening of the new Humanitas University Campus, and in 2018, the Mario Luzzatto Student House. In April 2020, Humanitas Istituto Clinico Catanese was born as an upgrading of Humanitas Centro Catanese di Oncologia, founded in 1958.*

## **Exiros**

*Exiros is a global company that offers integral procurement solutions, from supplier scouting activities to inventory management, including trading of raw materials, production materials and Capital Goods. Exiros centralizes the purchasing operations of Tenaris and Ternium, and a portion of Tecpetrol and Techint Engineering & Construction. Leveraging on market knowledge and purchasing power, Exiros also supplies materials for different customers around the world outside the Techint Group, through its trading company. It consolidates over USD 13.5 billion in purchases yearly of a wide range of categories, including trading, as mentioned before, plus different spare parts & supplies, transportation & logistics and several specialized services that are required by its client operations. The company employs around 500 people in 15 countries. Fully owned by Tenaris and Ternium, Exiros aims to increase the efficiency of its shareholders' supply chains through a true partnership collaboration within the business group, leveraging on the support of more than 86,000 registered suppliers and performing more than 1.8 million transactions every year.*

# Techint Group Companies

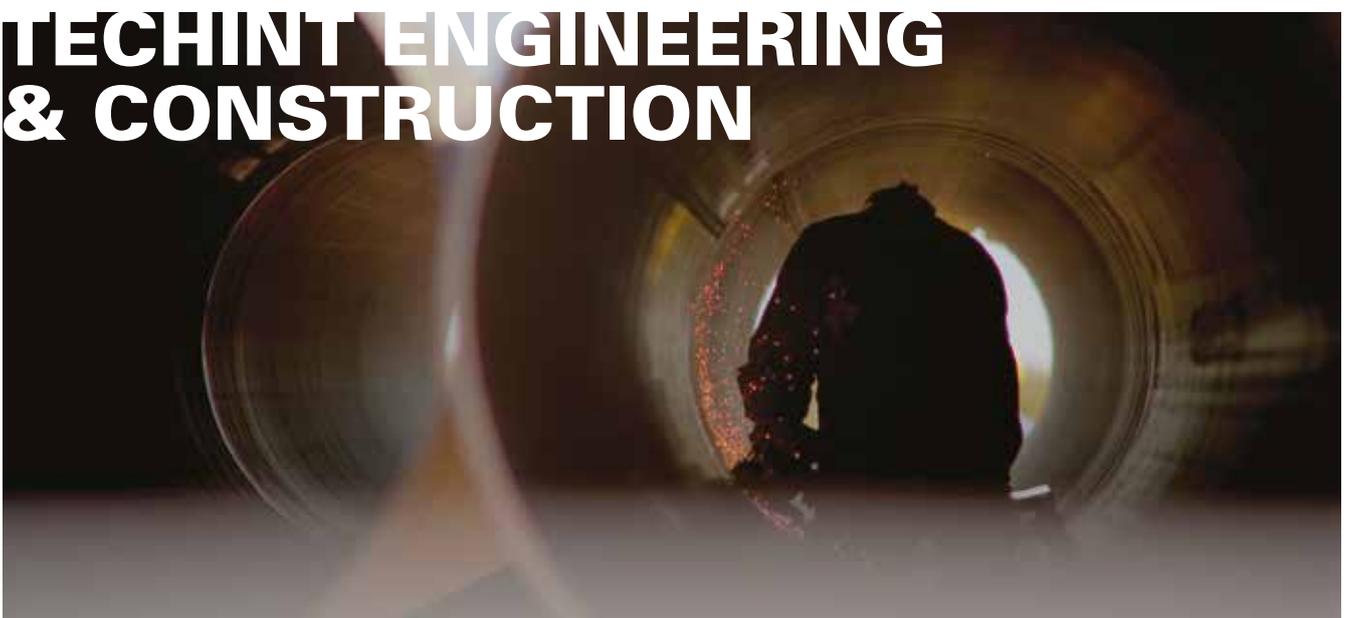
**TENARIS**



**TERNIUM**



**TECHINT ENGINEERING  
& CONSTRUCTION**



**TENOVA**



**TECPETROL**



**HUMANITAS**



# TENARIS



# Tenaris



**Tenaris's mission is to deliver value to its customers through product and process innovation, manufacturing excellence, supply chain integration, technical assistance and customer service, aiming to reduce risk and costs, increase flexibility and improve time-to-market. Wherever Tenaris operates, it is committed to safety and minimizing its impact on the environment, providing opportunities for its people, and contributing to the sustainable development of its communities. Tenaris's employees seek constant improvement by sharing knowledge across a single global organization.**

◀ On the previous pages:  
In 2022, Tenaris marked the culmination of \$150M CAD in investments in Sault Ste. Marie, ON, to transform the company's industrial footprint in Canada by centralizing its pipe manufacturing operations, seamless and ERW, under one roof.

Tenaris is a leading supplier of steel tubes and related services for the world's energy industry and certain other industrial applications.

With a global network of manufacturing facilities, service yards, R&D centers and commercial offices, Tenaris in 2022 produced 3.3 million tons of seamless pipes and 0.5 million tons of welded pipes.

Tenaris is a public company, incorporated in Luxembourg, with its shares listed in Milan and Mexico, and its American Depositary Securities listed on the New York Stock Exchange; it adheres to international standards of corporate governance, financial transparency, and information disclosure. The company employs around 25,000 people worldwide.

Tenaris's customers include most of the world's leading oil and gas companies, as well as engineering companies engaged in constructing oil and gas gathering, transportation and processing facilities. Tenaris serves customers through four global business units focused on specific market segments, and local business units, which are located in the countries hosting its main production facilities. In 2022, Tenaris had annual net sales of USD 11.8 billion.

## Global Lines of Business

### *Oil Country Tubular Goods (OCTG) and Premium Connections*

Tenaris supplies a full range of high-quality casing and tubing, premium connections, pipe accessories, sucker rods and coiled tubing for use in all types of oil and gas drilling and well completion activities.

Using a unique network of manufacturing, service, distribution, and R&D facilities, Tenaris focuses on reducing time and costs for customers through integrated supply chain management and developing industry leading products and technical services. Tenaris's service offer, known as Rig Direct®, covers the entire project lifespan, with well planning, supply chain integration and running services.

### *Pipeline Services*

Tenaris manufactures a complete range of seamless and welded line pipe and coiled line pipe products for use in onshore and offshore pipelines. Tenaris focuses on providing the risers, flowlines and subsea tubular components for deepwater and ultra-deepwater markets. Services provided include material selection, double jointing, internal and external coating, internal blasting, anode pad installation and other detailed operative services. Tenaris's range of products also includes pipes for complex offshore structures like platforms and rigs.



### ***Process and Power Plant Services***

Tenaris provides comprehensive material planning, supply chain management services and on-time delivery of quality products to enable customers to meet the demanding needs of major refinery, petrochemical, and power plant contracts. Products include a wide range of seamless and welded line pipe, fittings and flanges in most carbon, low-alloy, and high-alloy steel grades as well as special grades, cold-drawn pipes for boilers and heat exchangers.

### ***Industrial and Automotive Services***

Tenaris offers a wide variety of mechanical, structural, and cold-drawn seamless pipe products for industrial applications with a focus on segments such as automotive components, hydraulic cylinders, construction machinery, gas cylinders and architectural structures. Services provided include just-in-time delivery, stocking and consignment programs and e-commerce facilities.

Tiwi geothermal area in the Philippines. Tenaris has supplied more than six million meters of pipes for geothermal projects worldwide since 2016 and throughout the last years, increasing its focus on geothermal applications.  
Credits: PGPC

## Local Business Units and Facilities

In countries where Tenaris has its principal pipe manufacturing centers, local business units cater to the local market. Services offered take advantage of the local manufacturing presence and the distinctive heritage of the mills in the communities where they operate.

### *North America*

Tenaris has a fully integrated seamless pipe manufacturing facility located near the port of Veracruz, on the Gulf of Mexico, near the major exploration and drilling operations of the Mexican state oil company Petróleos Mexicanos (Pemex). The facility includes a cutting-edge technology rolling mill and an expanded sucker rods plant. The industrial center also has an R&D center, an automotive component center, a TenarisUniversity building and has obtained international environmental certifications.

In the United States, Tenaris produces a complete size range of OCTG, including technologically advanced products such as premium connections and coiled tubing.

Its main plants are located in the Arkansas, Pennsylvania, and Texas. In 2021, Tenaris started producing steel in the U.S. following investments at its first melt shop in Koppel, PA.

Tenaris provides a new generation of high performance hydrogen storage systems under extreme working pressures.



Tenaris's greenfield seamless pipe mill in Bay City, Texas, started operations in late 2017. The facility serves as the anchor to Tenaris's Rig Direct® service model, which is supported by the company's extensive network of service centers, including the onsite yards at its Texas seamless mill, TenarisBayCity; Midland, Texas; Amber, Oklahoma; and in 2018, a leased yard in Beech Bottom, West Virginia, positioning Tenaris closer to its customers in active shale plays in the States.

In March 2019, Tenaris announced its agreement to acquire IPSCO Tubulars, Inc., the U.S. assets of Russian company PAO TMK. The deal would strengthen Tenaris's U.S. presence by extending its geographic reach, adding its first steel shop in the States, and further enhancing its product portfolio. In January 2020, Tenaris announced the completion of the acquisition.

In Canada, Tenaris undertook a significant investment of USD \$150 million to consolidate its seamless and welded pipe manufacturing under a single roof with its hub in Sault Ste. Marie, Ontario. The investment was inaugurated in September 2022.

It also has a premium threading facility in Nisku, Alberta. Tenaris expanded its service footprint in the country to support its mill-to-well service offer by opening a service center in Grand Prairie, Alberta, in 2017, joining three others already in operation.

### ***South America***

Tenaris has a fully integrated seamless pipe facility in Argentina, the company's main manufacturing facility in South America. The state-of-the-art seamless pipe mill is located on the banks of the Paraná River near the town of Campana, approximately 80 kilometers from the city of Buenos Aires, Argentina.

Tenaris also has two welded pipe plants in Argentina, one located at Villa Constitución in the province of Santa Fe, which produces small diameter welded pipes, and another located in Valentín Alsina, just south of the city of Buenos Aires, which produces welded pipes with a diameter range of 4 1/2 to 80 inches that are mainly used in the construction of pipelines. In 2021, Tenaris expanded its coiled tubing unit with the acquisition of hydraulic fracturing and wirelines assets from Baker Hughes Argentina, which includes a pressure pumping fleet, coiled tubing unit and other related equipment. The investment is key to the company's operations in Vaca Muerta.

In addition, Tenaris produces tubular accessories such as sucker rods and pipe protectors in Villa Mercedes, in the province of San Luis.

Tenaris also has a modern gas turbine power generation plant, located at San Nicolás, approximately 150 kilometers from Campana.

In support of the company's 2030 plan to reduce its carbon emissions, Tenaris is investing over \$200M for the construction of a wind farm located in Adolfo Gonzales Chaves, in the province of Buenos Aires, Argentina. Once completed, in late 2023, the wind park would supply close to 50 percent of the electricity requirements of Tenaris's mill, Siderca, cutting CO2 emissions by 152,000 t/yr.

At Pindamonhangaba, 160 kilometers from São Paulo, Brazil, Tenaris processes steel plates and coils to produce welded steel pipes with an outside diameter range of 4 1/2 to 100 inches for various applications, including oil, petrochemical and gas applications. The facility also supplies external and internal anticorrosion pipe coating.

In Cartagena de Indias, Colombia, Tenaris has a steel pipe manufacturing facility that produces mainly welded OCTG and line pipe products for the local oil and gas industry and for export, as well as welded steel pipes for electric conduits. The plant completed its expansion project in May 2015, including heat treatment, threading and finishing lines to reach an output of 250,000 tons per year of seamless and welded pipes.

To strengthen its presence in South America, in 2014 Tenaris inaugurated a new threading facility for OCTG products in the town of Machachi, Ecuador.

Tenaris was awarded the supply of 68,000 tons of pipes in varied outside diameters and wall thicknesses for the development of the Sakarya pipeline in offshore Turkey.



## *Europe*

In Europe, Tenaris has seamless pipe manufacturing facilities in Italy and Romania, and a premium connection threading facility in the UK. The principal manufacturing facility in Europe is an integrated plant with over 100 years of history, located in the town of Dalmine in the industrial area of Bergamo, about 40 kilometers from Milan. It also has an R&D center specialized in hot-rolling technologies for seamless tubes and the study of new products for the thermal and mechanical sectors.

In Romania, Tenaris has production facilities located in Zalau - a seamless pipe mill with a 225,000 tons/year capacity - and in Calarasi - a steel shop with an annual capacity of 470,000 tons - as well as a sucker rods plant in Campina and a service center in Ploiesti.

To support local operations, Tenaris invested USD 40 million in the construction of a new, state-of-the-art premium threading facility with a capacity of 45,000 tons/year in Aktau, Kazakhstan.

## *Asia and Oceania*

Tenaris operates a premium connections and coupling threading facility in Qingdao, China, along with an automotive components center.

Tenaris and Inner Mongolia Baotou Steel formed a joint venture in 2020 for the construction of a steel pipe premium connection threading plant to support China's oil and gas sector with OCTG products. The facility, TenarisBaogang, entered production in June 2022.

In Indonesia, Tenaris has an OCTG processing business with heat treatment and premium connection threading facilities. The plant is located in the Krakatau industrial park, 100 kilometers from Jakarta.

Following a 20-year plus presence in Japan, Tenaris announced in 2021 that its joint venture with JFE holdings for the operation of NKK Tubes, a seamless steel pipe plant in Kawasaki, would come to an end. Partner JFE had previously announced it would close its Keihin steel mill, the source for steel bars, energy and other services for NKK Tubes, also located on the same grounds, resulting in the 2022 shutdown of the manufacturing facility.

## *Middle East and Africa*

Tenaris started up a premium threading operation in Saudi Arabia and in 2011 expanded its operations in Nigeria through a joint venture with the country's leading pipe coating company. In late 2018, Tenaris entered into an agreement to acquire 47.79 percent of the shares of Saudi Steel Pipe Company

(SSP), a welded pipe producer located in Dammam, Saudi Arabia, expanding Tenaris's product portfolio and services scope. The acquisition was completed at the beginning of 2019. In 2020, Tenaris expanded its service center in Abu Dhabi where a new premium threading line is currently under construction, projected to be operational by 4Q2023.

## **Tubular Technologies of Tomorrow**

Tenaris is at the forefront of developing the tubular technologies required for operating in the world's most demanding environments, not only to meet the challenge of drilling in extreme conditions of pressure and temperature, but also in high performance mechanical and structural applications. Tenaris has established a global research and development network with specialized centers in Argentina, Italy and Mexico, committed to the development of new products and improving existing products and manufacturing processes.

Tenaris is responsible for developing and testing the tubular materials used in many of the world's most advanced oil and gas exploration, production, and processing activities and in specialized mechanical applications.

For companies that have moved beyond traditional operations to explore new fields in complex environments, Tenaris offers an ever-broader gamut of options and solutions.

Tenaris is complementing its product innovation with the digitalization of services to integrate the supply chain. The company offers a digital box of solutions to streamline processes, increase safety and reliability through tools such as its online ordering/tracking platform Rig Direct® Portal; its unique digital pipe identification application, PipeTracer®, that allows for easy access to product technical specifications and running guidelines, and the creation of digital tallies; and an online marketplace for direct orders of standard applications from its inventory.

## **TenarisUniversity**

Tenaris has a corporate university to integrate, align and disseminate knowledge across the company. TenarisUniversity's core activity is training, with a variety of courses customized to fit the needs of employees at every stage of their careers.

Training is carried out through three schools - Management School, Industrial School and Business School - and delivered via multiple venues and formats



that include e-learning, classroom lectures, case studies and simulations. Most training is carried out regionally but, in some cases, global events are held. TenarisUniversity also offers online learning opportunities stemming from its 2018 partnership with the digital platform Degreed to promote an employee-driven structure. All learning content can be easily accessed through this platform. The system offers a customized learning plan for each employee based on the job content, as well as the employee's interests and areas of improvement. The learning tool also offers social learning capabilities that foster knowledge sharing among employees.

From its Dalmine mill in Italy, Tenaris produced 105 km of seamless line pipes for the Northern Lights CO2 transport and storage project in Norway.

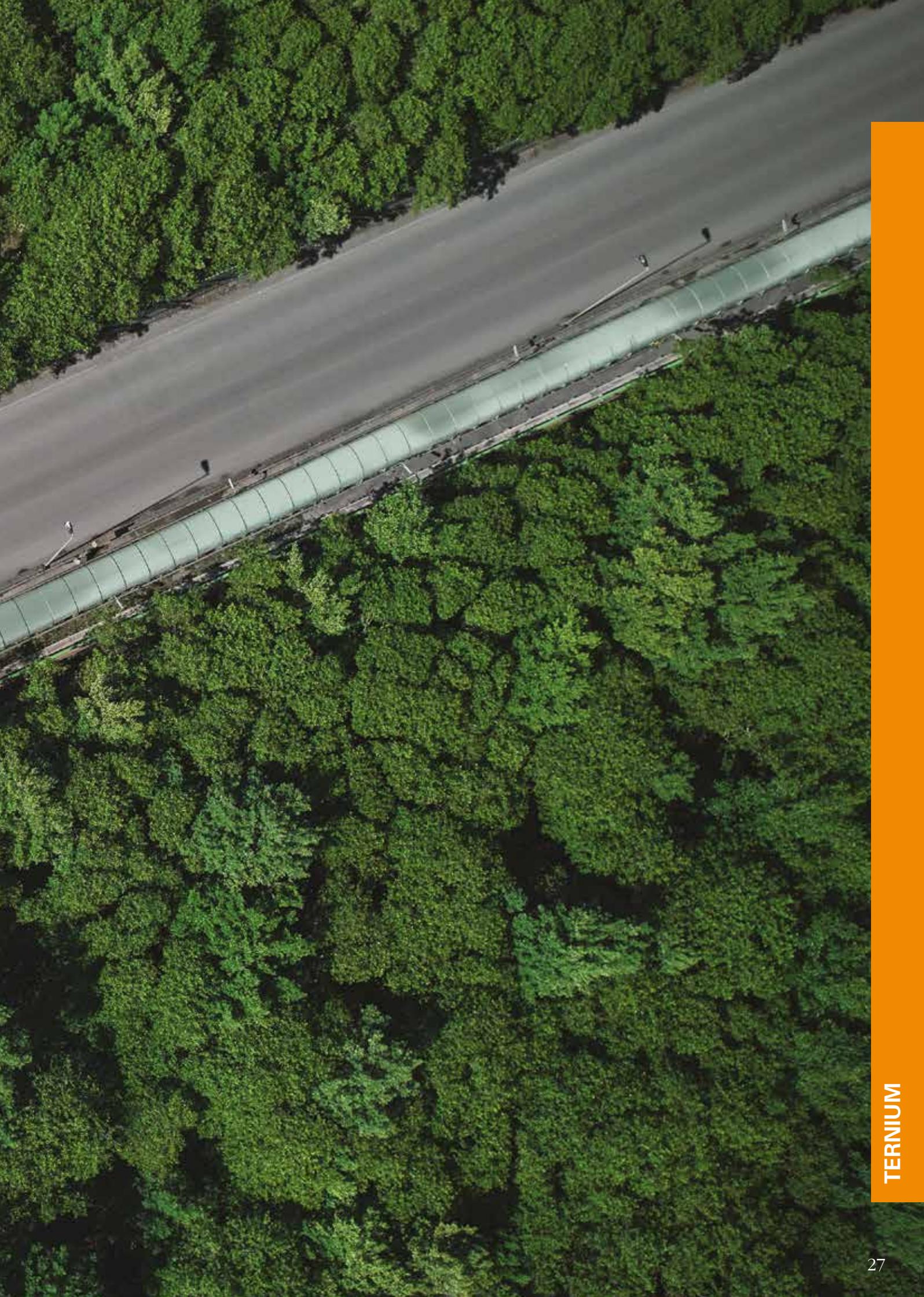
## Energy Transition

As sectors around the world, including steel and energy, work to enhance their environmental, social and governance, or ESG, performance amid the global climate crisis and a transition in energy, Tenaris is building on its decades of sustainable practices with a pledge to decarbonize its operations. In February 2021, Tenaris announced a medium-term plan to reduce its CO2 intensity by 30% by 2030 in scope 1, 2 and 3 emissions through a greater use of recycled steel scrap and by investing in the use of renewable energy.

[www.tenaris.com](http://www.tenaris.com)

# TERNIUM

**Ternium's vision is to be the leading steel company in the Americas, committed to the development of its customers, at the forefront in industrial standards and standing out through the excellence of its human resources.**



# Ternium

◀ On the previous pages:  
In 2022, Ternium received an A-grade by the Carbon Disclosure Project (CDP) platform, improving its results in comparison to 2021.

A dome to mitigate dust emissions generated by the wind was built at the Guerrero Plant in Mexico, becoming one of Ternium's most important environmental investments in recent years.

Ternium is Latin America's leading flat steel producer with manufacture, process and distributing operations in Mexico, Brazil, Argentina, Colombia, United States and Central America. In addition, Ternium participates in the control group of Usiminas, a leading flat steel company in the Brazilian market.

With annual net sales in 2022 of USD 16.4 billion, Ternium employs more than 20,500 people and its customers range from small businesses to large global companies in the automotive, home appliances, construction, capital goods, container, food and energy industries across the Americas.

The company's industrial system has varied production technologies that provide a diversified cost structure, based on different types of raw material and energy sources, and a flexible production configuration. The industrial system includes proprietary iron ore mines, steelmaking facilities, finishing facilities, service centers and a broad distribution network to offer slabs, hot-rolled products, cold-rolled products, galvanized and electro-galvanized sheets, pre-painted sheets, tinplate, welded pipes, bars and wire rods as well as slit and cut-to-length products.



Ternium's innovative culture, industrial expertise and long-term view enable the company to continuously achieve new breakthroughs in industrial excellence, competitiveness and customer service.

Since 2019 Ternium Sustainability Report is made under the Global Reporting Initiative guidelines. This report offers a comprehensive view of the actions that the company is implementing to improve long-term sustainability in terms of safety, health, the environment, human resources, innovation, community relations, the value chain, corporate governance, and economic performance.

### ***Ternium's Roadmap to Decarbonization***

In February 2021, Ternium announced the adoption of a new Decarbonization Strategy with the medium-term target of reducing the company's carbon dioxide emission intensity rate for steel production by 20% in 2030. To do so, the company is implementing an investment agenda in environmentally friendly projects and technologies.

In August 2021 Ternium and Vale, one of the largest mining companies in the world, signed a memorandum of understanding to develop steelmaking decarbonization solutions. In 2022, Vale's management visited Ternium's facilities in Monterrey, Mexico, to move forward with this agenda.

Regarding other environmental issues, in 2021, Ternium reported its information for the first time with the Carbon Disclosure Project (CDP) platform for its climate change program, where management of aspects related to climate action and water care is evaluated. After a year of work, in 2022 Ternium received an A- grade, improving its results.

### ***Mexico***

Ternium has 12 steel production and/or processing units in Mexico, consisting of three integrated steelmaking plants, based on DRI-EAF technology (two of which produce long steel products and one of which produces flat steel products and includes two steel service centers), five downstream flat steel processing plants combining hot-rolling, cold-rolling and/or coating facilities (two of which include steel service centers), and four steel service centers.

In addition, Ternium has 12 retail distribution centers in this region, aimed at serving customers mainly in the construction sector.

As a leading supplier of flat steel products in the country, it continued running its integrated steelmaking facilities at close to full capacity.

The State Environmental Control Commission (CECA) granted the renewal of Ternium's license to operate in Brazil for a period of another 10 years.

In the second semester of 2017, Ternium announced and started the construction of two galvanized lines and a hot-rolling mill in Pesquería, Mexico. An investment to expand the company's product range in the country. In 2019, Ternium inaugurated the hot dip galvanizing and pre-painting facilities, enabling the production of new high-end value-added products for home appliances, HVAC and automotive industries, strengthening its value chain and substituting imports.

These new lines began operating in 2019 with an annual capacity of 350,000 tons for the galvanizing line and 120,000 tons for the pre-painting one. Meanwhile the new hot-rolling mill, produced its first coils in May 2021, and has an annual production capacity of 4.4 million tons.

The hot-rolling mill is now producing specialized steel for the automotive and white goods industries. In total, more than USD 1.1 million dollars were invested in its development and nearly 2,400 people were involved in its construction.



In February 2022, Ternium announced a new investment plan for Pesquería, Mexico. It consists of a new cold rolling mill, a hot-dip galvanizing line, a push-pull pickling line, and new finishing lines, with a total capital investment of approximately \$1 billion, expected to be completed in 2024.

Power supply to Ternium facilities in Mexico was further secured with the commissioning of Techgen's 900MW power plant in the state of Nuevo León, Mexico. Ternium has a 48% equity interest in this natural-gas-based facility, which covers 100% of Ternium's electricity requirements in Mexico and generates substantial cost savings.

### ***Southern Region***

The Southern Region encompasses the steel markets of Argentina, Bolivia, Chile, Paraguay and Uruguay. This region operates five industrial centers and six service centers in the provinces of Buenos Aires and Santa Fe.

Clients range from small businesses to large global companies in the construction, automotive, agricultural machinery, household appliances, packaging and energy industries.

Within this significant industrial sector, in 2022 Ternium Argentina represents 48% of the steel shipments in the country.

### ***Brazil and Other Markets***

Ternium major shipment destinations in the Other Markets Region are the United States, Brazil, Colombia and Central America. In 2020, shipments decreased to some extent with lower shipments in Colombia, due to the impact of the pandemic, and higher shipments in the US market. During the second half of this year, the company's slab plant in Brazil returned to full capacity from minimum utilization levels in April, and increased its integration with other Ternium plants.

The Rio de Janeiro facility that integrated into Ternium's industrial system in September 2017 has an annual production capacity of 5 million tons of high-end steel slabs. Located in the neighborhood of Santa Cruz, the plant includes a 490MW combined cycle power plant and a deep-water harbor. The integration has consolidated Ternium as a leading flat steel producer in Latin America and gives the company new opportunities for growth and integration.

The State Environmental Control Commission (CECA) unanimously granted the renewal of Ternium's license to operate in Brazil for a period of another 10 years. The process began in 2020 with the hiring of a consultancy to review all the aspects requested by the organization.



Ternium provides equal opportunities and development to people regardless of culture, gender, age, ethnicity, sexual orientation, gender identity, religion, physical condition or thought differences.

In 2017 Ternium announced a greenfield project in Palmar de Varela, Colombia. The construction of the new facility began in 2018 and was conceived under the philosophy of environmental responsibility and ecoefficiency, which led to the implementation of several technologies for the responsible use of resources, including the reuse of 97% of the process water and the optimization of the energy consumption and lighting systems.

With the start-up of the industrial center in Palmar de Varela, Barranquilla, the annual production capacity now is 740,000 tons of long steel products. The most recent center began operations during the second semester of 2020, positioning Ternium as the leading steel producer in Colombia.

### **Mining Segment**

Ternium produces iron ore pellets and magnetite concentrate in Mexico. It conducts its mining activities through Las Encinas, a company in which it has a 100% equity interest, and Consorcio Peña Colorada, a company in which it has a 50% interest (with ArcelorMittal having the other 50% interest).

ArcelorMittal and Ternium each receive 50% of total iron ore production from Consorcio Peña Colorada. Most of its iron ore production is consumed internally at Ternium's steelmaking facilities in Mexico.

## **Support for Small-and Medium-Sized Enterprises**

Ternium continued sponsoring a small- and medium-sized enterprise (SME) support program - created by the Techint Group in 2002 - called ProPymes, which aims at bolstering growth in its domestic steel markets.

ProPymes provides a variety of services, including training, industrial assistance, institutional assistance, commercial support and financial aid in order to contribute to the creation of an industrial network that encourages professionalization and excellence. In Argentina, ProPymes began with 26 participating companies at the beginning of 2002. Twenty years later, it includes 938 SMEs distributed throughout the country.

## **Product Research and Development**

Product research and development activities at Ternium are conducted through a central Product Development Department in coordination with local teams that operate in several of the company's facilities.

Applied research efforts are carried out in-house and in conjunction with universities and research centers, as well as through participation in international consortia.

Ternium's product research and development activities focus mainly on the development of high-end flat steel products, with the aim of consolidating the company's market position in the automotive, transportation, home appliance, agricultural and oil & gas sectors.

### ***Industrial Products***

Ternium strengthened its product development capabilities through the expansion of the research infrastructure in Mexico and through the association with WorldAutoSteel, a consortium of steel companies that specializes in the design and promotion of AHSS auto components. Ternium began the development of highly formable AHSS for several applications, and developed high-strength steel wire for high-tensile coil springs, initiatives that will enable the company to increase its share in the high-value automotive and metal mechanic steel markets.

**[www.ternium.com](http://www.ternium.com)**

# TECHINT ENGINEERING & CONSTRUCTION

**Techint E&C has developed its expertise in the area of highly complex projects as part of its drive to innovate with efficiency and meet the maximum international standards of quality and sustainable economic development. The company has a rigorous approach to quality in the areas of occupational health and safety as well as environmental protection, and applies this ethos to its work with local communities, respecting different cultural norms and conditions.**



# Techint Engineering & Construction

◀ On the previous pages:  
La Calera Project: construction of Central Processing Facilities (CPF) in the Pluspetrol field in Vaca Muerta, Province of Neuquén, Argentina.

Techint Engineering & Construction is currently working simultaneously on several large-scale projects in Argentina, Brazil, Chile, Ecuador, and Mexico, as well as in other countries (see detailed references in the Techint Group Companies section of this publication).

The company has successfully completed more than 3,300 projects in over 45 countries, and continues to work on major industrial and infrastructure projects around the world.

## 75 YEARS OF GLOBAL EXPERIENCE

Over 21,000 employees

More than 420 pipelines installed, covering  $\geq$  60,000 km in length

Over 600 projects in the Downstream and Chemical sector

More than 600,000 tons of steel structures assembled

Over 540 projects in the Energy sector

More than 900,000 tons of equipment installed

Over 900 projects in the Oil & Gas sector

An average of 2.2 million engineering man-hours worked per year

Parnaíba V Project: construction of a thermoelectric plant, in Santo Antônio dos Lopes, Maranhão, Brazil.



## Techint Worldwide

Techint Engineering & Construction provides project management, construction, engineering, procurement as well as operation and management services for large-scale projects in locations all over the world.

The company's multilocal approach means each operation has a thorough knowledge of the technical standards, laws, regulations and tax structures applicable in each area. Similarly, each one develops relationships with the financial entities, labor unions and subcontractors in the regions where they operate, on the basis of a comprehensive understanding of local norms and culture.

With more than 75 years of experience in the market, Techint Engineering & Construction has developed considerable expertise in the integral execution of high complexity projects, from the design to commissioning, protecting the environment and the welfare of its neighboring communities. With over 21,000 employees worldwide, the company has completed more than 3,300 projects in compliance with ISO/BS/OHSAS international standards in the Americas, Europe, Asia and Africa.

Through its Engineering Centers in Buenos Aires (Argentina), São Paulo (Brazil), Ciudad de México (Mexico), Milan (Italy), Monterrey (Mexico), Mumbai (India) and Sevilla (Spain), Techint provides high added-value services, such as feasibility studies, conceptual engineering, preliminary design, basic design and de-bottlenecking and revamping studies.

Currently, the company delivers services in the following market segments: Oil & Gas, Power, Industrial Plants, Downstream & Chemicals, Mining, and Infrastructure & Architecture Civil Works.

MARKET SEGMENTS	CORE PRODUCTS
<b>OIL &amp; GAS</b>	Central processing facilities and GOSPs; gas treatment plants; offshore platforms; marine facilities and installations; onshore Oil & Gas and multiproduct pipelines; LNG regasification terminals.
<b>POWER</b>	Combined-cycle power plants; conventional thermal plants (oil, gas and coal-fired); hydroelectric power plants; nuclear facilities; power transmission lines and substations; renewable energy facilities.
<b>DOWNSTREAM &amp; CHEMICALS</b>	Crude and vacuum distillation units; delayed coking units; fluid catalytic cracking units; hydrogen production plants; gas treatment and sulfur recovery unit; gasoline and diesel HDT & HDS plants; alkylation units; isomerization units; offsite battery limit; methanol plants.
<b>MINING</b>	Processing plants; industrial and service structures and buildings; water and slurry pipelines; civil works (including access roads and ports); industrial utilities and off-sites; material handling; maintenance services.
<b>INDUSTRIAL PLANTS</b>	Steel processing plants and facilities; pipe manufacturing mills; aluminum smelters; pulp and paper mills; cement production plants; other manufacturing plants.
<b>INFRASTRUCTURE &amp; ARCHITECTURE CIVIL WORKS</b>	Dams; city subway systems and railway projects; bridges and tunnels; roads and highways; harbor facilities; water and sewage treatment plants; sanitation works and facilities; general buildings (civil buildings and ports).

Thanks to its consolidated know-how and years of experience, the company has the capabilities to manage the full range of local aspects involved in any kind of large-scale industrial project.

## Multilocal Presence

### *Argentina*

Established in 1946, Techint Compañía Técnica Internacional is the leading engineering & construction company in Argentina and ranks among the top firms in this sector throughout Latin America.

The company has taken part in some of the largest and most technologically challenging projects in the country, establishing its credentials as one of the most experienced pipeline builders, and also becoming a premier contractor for oil refineries, as well as for chemicals and petrochemicals plants.

### *Brazil*

Techint Engenharia e Construção was founded in 1947, and has since made a major contribution to Brazil's development with the successful completion of 1,100 projects, providing engineering, procurement and construction (EPC) services in the areas of Oil & Gas refinery, treatment and transportation

Néstor Kirchner Gas Pipeline:  
largest energy infrastructure project  
in the last 40 years, across the provinces  
of Neuquén, Río Negro, La Pampa  
and Buenos Aires, Argentina.



facilities, in addition to chemical and petrochemical complexes, iron, steel, non-ferrous metal and nuclear plants, as well as basic sanitation and educational structures.

### *Chile*

Techint Engineering & Construction has over 65 years of experience in Chile providing EPC, construction management, and maintenance services to a range of market segments such as the Mining, Power, Oil & Gas, Infrastructure and Industrial sectors.

The Chilean mining sector is one of the pillars of the local economy and the company has actively participated in the design and building of mineral processing plants, water conveyance systems (pipeline and pumping stations) and slurry pipelines including choke stations, as well as providing processing plant maintenance services.

### *Ecuador*

In Ecuador, Techint E&C has been a leading contractor since 1974 for projects involving engineering, construction and financing, including building and laying the Heavy Crude Oil Pipeline (OCP) and its ancillary facilities, one of the largest and most complex projects in the company's history. The company also provides field optimization services for the Oil & Gas sector.



### *Egypt*

Established in 1974, Techint has built pipelines, refineries, sea-lines and marine platforms, in addition to delivering services to the Power Generation, Oil & Gas and Petrochemicals sectors.

### *India*

Established in 2010 in Mumbai, the Engineering Center offers quality engineering services focused on detail engineering for both the proposal and project execution stages, as well as procurement services.

### *Italy*

Founded in 1945, the Milan Engineering Center provides high value-added services in areas of proven experience, such as the Oil & Gas, Refinery, Power and Infrastructure sectors (particularly for the Healthcare and Hospitals industry). Over the last decade, it has expanded its range of services to include environmental consultancy and green technology solutions, applied innovation technologies, asset management and optimization studies.

### *Mexico*

Established in 1954, the company has grown steadily over the last ten years, participating in major industrial and infrastructure projects in Mexico and Central America, such as pipelines, petrochemical and gas plants, steel plants, hospitals, hydroelectric and combined-cycle power plants, transmission lines and electrical substations, coal handling facilities, coal and pet coke-fired power plants.

Construction of the  
Dos Bocas Refinery Project,  
in Tabasco, Mexico.





### *Peru*

In 2009, Techint set up headquarters in Lima and has since then successfully executed large scale projects in the Oil & Gas, Power and Mining sectors. The company had already developed important projects in Peru, such as sections of the Norperuano oil pipeline in the late 70's, as well as another key challenge: the construction of the 730-km gas and 560 km-LNG Camisea pipelines, which run from the Peruvian rainforest across the Andes mountain range to the city gate in Lima and the port of Pisco, respectively.

### *Spain*

Established in 2019, the Sevilla Engineering Center provides a strong know-how in the Conventional and Renewable Power sector and it is currently focused on combined-cycle business development, preparing technical commercial offers as well as providing support during construction and commissioning phases of projects.

### *Uruguay*

Techint began operations in Uruguay in 1956 and has focused its activities on civil infrastructure works such as roads, highways and airports.

[www.techint.com](http://www.techint.com)

## 2022 Reference List

During 2022, Techint Engineering & Construction was involved in several landmark projects, the most significant of which are detailed below to illustrate the scope of the company's activities. These resulted in overall sales of USD 1.8 billion and a backlog of USD 2.8 billion as of December 31, 2022.

### OIL & GAS

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- Argentina: Techint E&C began construction on a stretch of the Oldeval oil pipeline for the Duplicar project to increase oil transport capacity, and has been working alongside this customer since the engineering phase. Also started work on the country's largest infrastructure project of the last 40 years, which will enhance the value of gas from Vaca Muerta and contribute to self-sufficiency in energy as well as save hard currency: the President Nestor Kirchner Gas Pipeline.
- Ecuador: Techint E&C has been working since 2011 on three blocks concentrating 40% of the country's total oil output. The company is providing EPC services to optimize oil production at the Auca field, as well as carrying out comprehensive design, construction and installation works to provide the equipment and facilities required for the Shushufindi project.
- Mexico: the company is working at the Olmeca Refinery Project in Dos Bocas, Tabasco, one of the country's most emblematic projects and the first refinery to be built in Mexico in forty years.

### POWER

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- Argentina: Techint E&C has completed the Ensenada Barragan power station, the company was expanding existing facilities to increase the plant's electricity production capacity by 280 MW.
- Brazil: Techint continued to provide EPC services at the Jaguatirica II thermoelectric power station, designed to supply up to 70% of the electricity consumed by Roraima State, in the Amazon river basin. It is also providing EPC services to the Paranaiba Thermoelectric Complex in Maranhao State to increase installed capacity by 386 MW.
- Mexico: the company is building a co-generation plant as part of the massive Olmeca Refinery project, at Dos Bocas, Tabasco. The new co-generation facilities will allow the refinery to produce 300 MW of power with 1,100 t/h of steam.

### INDUSTRIAL PLANTS

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- Argentina: Techint E&C continued operations at Ternium's plants in San Nicolás and Ensenada, as well as at Tenaris's plant in Campana and Valentín Alsina.

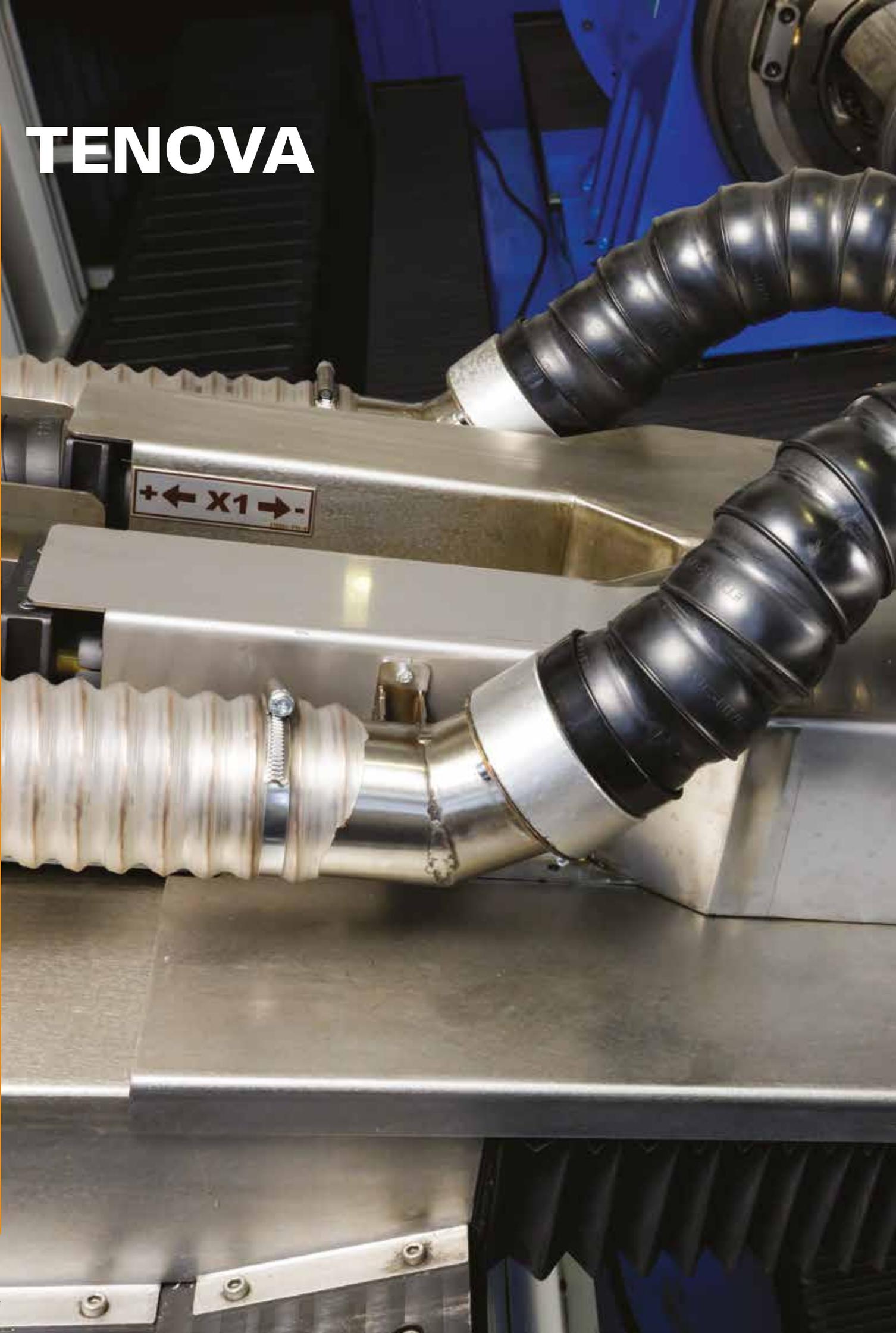
- Brazil: the company installed a new Pulverized Coal Injection system to fuel Ternium's facilities at Rio de Janeiro.
- United States: Techint is providing technical and maintenance services for Tenaris's seamless pipe manufacturing mills in Bay City in Texas, as well as at the company's McCarty and Baytown plants also located in Texas, and the Koppel facilities in Pennsylvania.

## MINING

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- Argentina: Techint E&C is working on the construction of a pilot lithium processing plant for Tecpetrol in the northwestern province of Salta.
- Chile: the company continued to provide construction services for Anglo American at the Los Bronces IV copper mine, undertaking work on different pipelines running through the Andean mountains in central Chile. The company has also been working to extend the desalinated water supply system for Compañía Minera Teck Quebrada Blanca second phase (QB2) in the Tarapaca region, installing 18 additional pumps, a 36"-152-km distribution pipeline, and a 6" and 8"-165-km slurry duct for the concentrates plant at the Quebrada Blanca mine. During 2022, Techint E&C continued working on the tailings building at Minera Escondida for the BHP client in the Antofagasta region. The company also started working at the Collahuasi copper mine, the second largest in the world, as part of a large-scale EPC project to develop a water supply system for the new desalination plant servicing the mine.
- Peru: the company has been installing an 87-km water pipeline as well as building five pumping stations and new facilities for Anglo American at its Quellaveco project.

# TENOVA





**Tenova provides the metals and mining industries with solutions that help companies limit environmental impact, reduce costs, save energy and improve working conditions, through a strong network in all key global business regions.**

◀ On the previous pages:  
The Pomini Digital Texturing™  
machine (PDT™) at its assembly  
workshop in Castellanza, Italy.

Tenova is a worldwide partner for sustainable, innovative and reliable solutions in the metals and mining industries. With decades of experience, the company works alongside its client-partners to design and develop innovative technologies and services that improve their business today and into the future. Tenova develops solutions that help mining and metals companies limit environmental impact, reduce costs, save energy and improve working conditions for their employees.

It is a company with a strong industrial background. Sharing the long-standing principles of an industrial group, it can better understand the needs of its international partners. Tenova has more than 2,300 employees, men and women who take a proactive approach to problem solving in every business area in which they operate in, and constantly seek new, cost- and energy-efficient ways to resolve the problems the client-partners are facing.

Tenova believes in on-the-job passion, and actively seeks out professionals who truly love what they do. Their contributions to the business have helped make Tenova the industry-leading company it is today, and their passion is the driver behind the company's business approach. This distinctive approach can be summed up in four key pillars: Sustainability, Innovation, Reliability and Safety.

Tenova LOI Thermprocess Twin-Chamber  
Melting & Recycling Furnace (TCF®)  
for aluminum at Aluminium Norf,  
Neuss, Germany.



## Four Commitments

Around the world Tenova professionals place their skills at the service of their clients. Their eye is always on the long term, with a view to building strong, long-lasting relationships that benefit both partners over time. Four core pillars have inspired Tenova's business approach:

### *Sustainability*

Tenova's approach to sustainability is based on the concepts of resource efficiency, recovery and circularity, resulting in innovative, reliable and environmentally-friendly technologies. Tenova carefully analyzes its clients' industrial processes in order to identify solutions that will reduce environmental impact while saving money, limiting raw material waste and improving facility efficiency. Tenova's aim is to always be its clients' first choice by offering a portfolio of green tech and hydrogen-ready solutions that accelerate the decarbonization of the metals industry enabling the largest reduction of carbon dioxide emissions.

### *Innovation*

Tenova believes that innovation must improve production quality for its clients no matter what area of business they work in, increasing profits and upgrading performance by providing new, more effective methods to get the job done. Tenova develops solutions that consume less energy, produce less raw material waste, reduce costs, pollution and CO2 emissions, and increase overall facility efficiency. It focuses on increasing the level of automation and digitalization in its clients' facilities, leveraging digital technology to help its clients perform more effectively in the 21st century.

### *Reliability*

Companies choose Tenova because they are looking for a reliable partner; a company that will work well, and well into the future. Whether installing a roll grinder or retrofitting a steelmaking facility, Tenova professionals become personally invested in each project they undertake, designing and implementing customized solutions that work quickly, efficiently and stand the test of time. Their passion for technology translates into reliable solutions.

### *Safety*

There can be no business success without on-the-job safety, so Tenova ensures that every solution and every designed and implemented technology make the surrounding workplace safer. Whether designing automated process solutions to reduce the number of operators on the floor, incorporating cutting-edge mechatronics, or designing control systems to identify and circumvent danger, Tenova produces solutions clients can rely on.

## Metals Industry

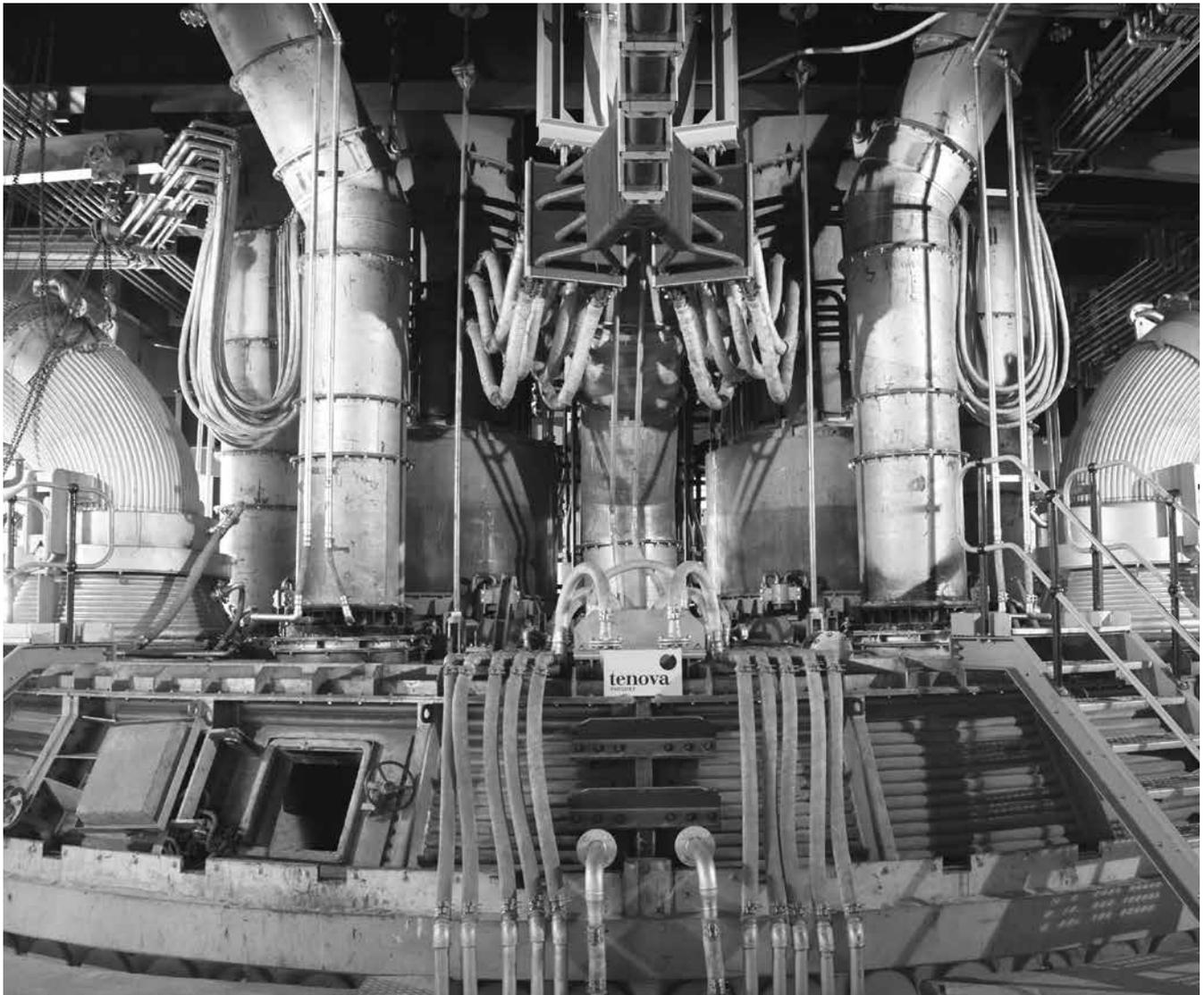
Working both upstream and downstream, Tenova strives to innovate continuously for its clients in the metals industries, focusing on quality, energy savings and reducing their environmental impact. Its goal is to favor robust and sustainable development. To accomplish this, Tenova leverages a network of synergistic companies in order to provide clients with a fully integrated range of high-quality products, technologies and services.

### *Iron & Steel*

Tenova offers a fully integrated range of high-quality products, technologies and services for the steelmaking, from iron ores and scrap, up to secondary metallurgy. Tenova is also on the leading edge offering solutions for circular processes and environmental control.

The product range includes traditional technologies like: direct reduction plants, electric arc furnaces (with the patented Consteel®), ladle furnaces

Tenova Pyromet Ferro Chrome  
Submerged Arc Furnace for ASA  
Metals Expansion Project,  
Burgersfort, South Africa.



and vacuum steel degassing, as well as more innovative ones like iBLUE®, iRecovery® and slag granulation.

For the downstream steel production, Tenova offers a wide range of equipment solutions for flat, long, plate, pipe and forging plant. Strip processing lines (such as annealing and coating lines, annealing and pickling lines, galvanizing lines, push pull pickling line, etc.), reheating furnaces, heat treatment furnaces, roll grinders, cold rolling mills and acid regeneration plants, are the flat product related technologies that Tenova specializes in delivering. Tenova provides efficient and reliable walking hearth reheating furnaces as well as bell-type and continuous heat treating furnaces for long product application. With quench and temper lines (Q&T), Tenova has the experience and expertise to provide the best solutions to achieve the specific requirements of heavy plate plants. Tenova's superior design can be utilized for a wide range of pipe heat treating applications and for heat treating lines for medium and large sized forgings.

### ***Rolling & Grinding***

As an experience partner offering comprehensive solutions Tenova is also a global leader in the design and supply of roll grinders and roll shop equipment for steel and non-ferrous metals such as copper, aluminum, as well as for paper mills. It guarantees the highest standards in terms of material quality, thickness tolerance and flatness.

### ***Pyrometallurgy***

Tenova also designs and supplies high-capacity Alternate Current (AC) & Direct Current (DC) furnaces and complete smelting plants for the production of ferroalloys, platinum group metals and base metals.

### ***Hydrometallurgy***

Tenova Advanced Technologies (TAT) is Tenova's respected global brand specialized in hydrometallurgical processing, in which it is a specialist, in particular for lithium and phosphate processing and solvent extraction.

### ***Aluminum***

From twin-chamber melting furnaces to advanced processing technologies and high quality roll grinders, the group supplies its clients with cutting-edge solutions for a range of aluminum needs. Tenova is the leading supplier for aluminum treatment lines for the automotive industry, with several processing lines successfully in operation for most major aluminum producers. Confirming its commitment to sustainability, Tenova is a valuable partner providing the best engineering solutions for aluminum melting and recycling.

### *Port Facilities*

Under the brand Tenova Material Handling, the company supplies standard and tailored material handling equipment, with a particular focus on the loading & unloading of marine terminals.

In recent years, Tenova has focused in particular on two topics that represent key objectives for steelmakers in the current market scenario: innovation and sustainability. In order to achieve successful results and reap all the benefits of digital technologies, steelmakers need to establish close partnerships with technology providers that have the adequate level of know-how and experience.



This is why Tenova has been investing in new business models based on digital competences and open innovation. In particular, the company has invested in developing new solutions based on the enabling technologies of Industry 4.0, with a focus on Predictive Maintenance, Plant Optimization and Remote Assistance. The ultimate goal is to optimize the production process, reduce costs, improve quality and increase production volumes. In recent years, the technology portfolio has been enriched with modular and scalable digital packages fully customizable based on customers' needs.

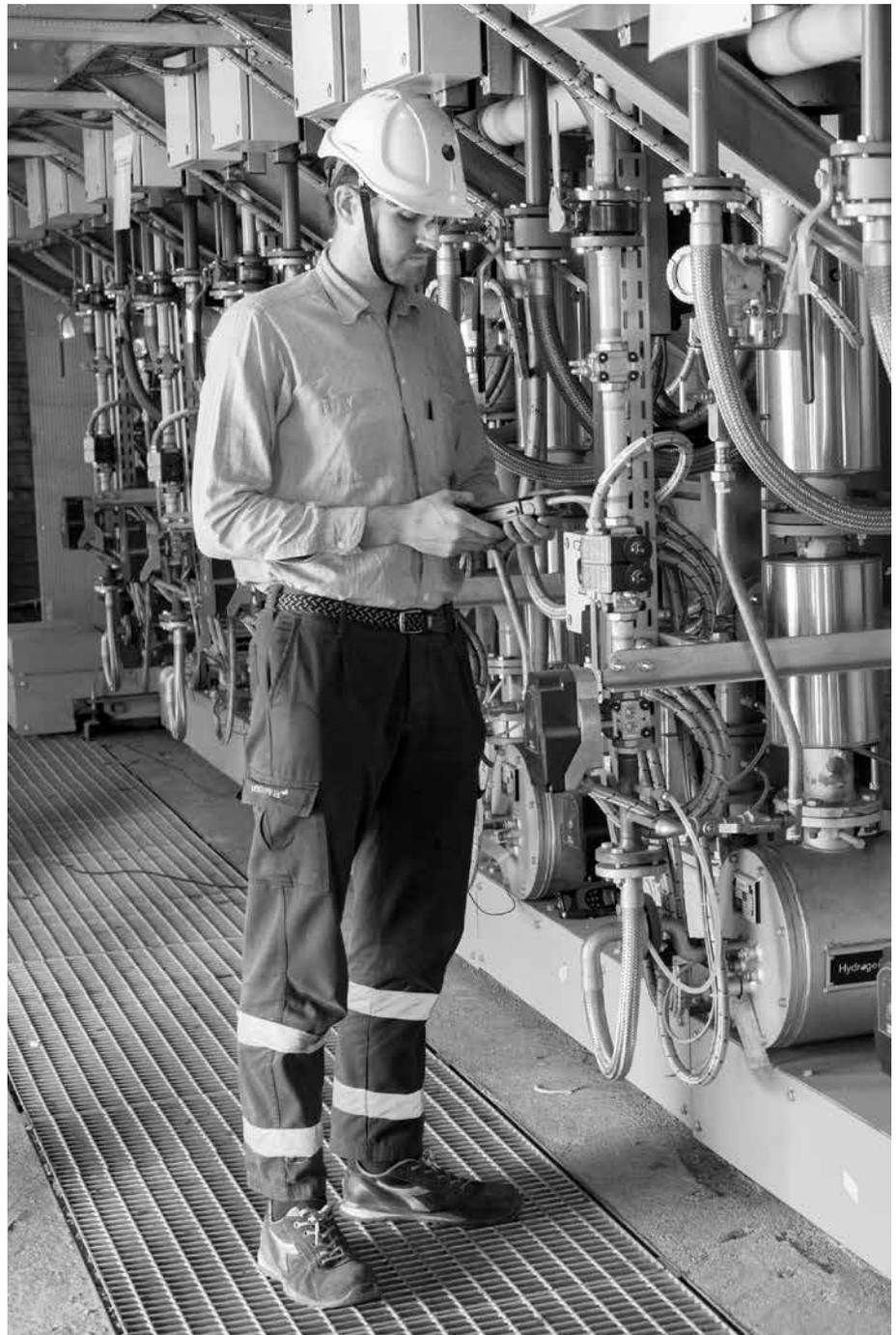
The protection of the environment is another crucial challenge facing the metals industry in the years to come, and Tenova holds a strong market



TAKRAF rail-mounted stacker, 6,300 t/h for a bulk terminal, Australia.

position thanks to its innovative green technologies. The range from hydrometallurgical processes for the metals extraction to DRI plants and electric arc furnaces, passing through flameless and regenerative burners minimizing NOx emissions and melting furnaces for the aluminum recycling. On the path to green energy transition, the company's mission is to be a reliable partner in the decarbonization of metals production, through the replacement fossil fuels with hydrogen in burners, DRI plants and EAFs. Tenova has always invested in green technologies with the aim of allowing its clients to minimize their environmental footprint without compromising their efficiency and operational excellence.

Tenova Itaimpianti Hydrogen - Ready Self-Recuperative Burners in the heat treatment furnace at TenarisDalmine, Italy.





## Mining Industry

New generation of DELKOR BQR flotation cells with MAXGen mechanism, Australia.

TAKRAF Group is part of Tenova. Through its established and well-known brands, TAKRAF and DELKOR, the Group provides innovative technological solutions to the mining and associated industries. In particular, TAKRAF is recognized as the world's leading technology brand when it comes to run-of-mine and bulk material handling. Its portfolio ranges from overburden removal, to raw material extraction, comminution, conveying, loading/unloading, processing, homogenizing, blending, storage and final loading for onward shipment. The DELKOR brand focuses on liquid/solid separation and beneficiation with thousands of successful installations worldwide. In line with the Group's commitment to environmental sustainability, DELKOR's dewatering and process equipment is specifically designed for the needs of the mining industry.

[www.tenova.com](http://www.tenova.com)

# TECPETROL

**Tecpetrol focuses its strategy for growth in Latin America on qualified, committed and highly experienced human resources, continuous technological improvement, the industry's best practices in its operational, health, safety and environmental standards, and constant involvement with the communities where it operates.**



◀ On the previous pages:  
Fortin de Piedra is considered  
an example for the industry worldwide.

Tecpetrol is a leading energy company dedicated to the exploration, production, transportation and distribution of hydrocarbons as well as power generation. The company is present in several Latin American countries, including Argentina, Bolivia, Colombia, Ecuador, Mexico, Peru and Venezuela. The company currently employs more than 4,200 people, including 1000 employees and 3,200 contractors.

Convinced of the importance of creating long-term value, combining economic and environmental sustainability to meet needs in a fast-moving energy market, Tecpetrol created the Energy Transition Business Unit to diversify the sources of business and income and also to contribute to the challenge of the decarbonization of steel that Tenaris and Ternium are developing as part of their agenda. Thus, the company is working in renewable energy, hydrogen, carbon capture and lithium projects, and has created a specific fund to identify and invest in disruptive technologies and ideas related to this topics.

Promoting a collaborative work  
environment is a core value for Tecpetrol.



## Exploration and Production

Tecpetrol's current level of production stands at approximately 193,000 barrels of oil equivalent per day (boe/d), with more than 1000 wells in production. Tecpetrol has focused on the development of unconventional resources, applying hydraulic fracking in horizontal wells. The company has been making important investments to achieve efficient industrial operations and fast-track production.

It also has vast experience operating mature fields, applying enhanced recovery methods in order to extract the largest amount of oil available in the reservoirs.

In Argentina, Tecpetrol operates several blocks of the Neuquina, San Jorge Gulf and Northwest basins, where it was awarded long-term concessions. In the Neuquina basin, Tecpetrol leads both conventional and unconventional operations.

The company currently operates about 200,000 acres of unconventional. Between 2017 and 2019, Tecpetrol has been implementing an investment plan of USD 2.3 billion at Fortín de Piedra to accelerate the production of natural gas in Vaca Muerta. With this fast-track development, Tecpetrol achieved a remarkable production increase, going from almost zero to more than 600 million cubic feet/day by the end of 2018. This amount represents 14% of Argentina's gas production. Furthermore, during winter of 2022, Fortín de Piedra achieved a significant milestone in Tecpetrol's gas production efforts by reaching a peak daily output of 727 million cubic feet. These outstanding results have consolidated the company as a regional leader in the area of unconventional resources.

Tecpetrol works in synergy with the other companies of the Techint Group. Techint E&C is responsible for building the processing facilities and transport pipelines for natural gas, while Tenaris supplies the pipes and associated services.

El Tordillo block in the Gulf of San Jorge basin produces (together with neighboring blocks La Tapera and Puesto Quiroga) nearly 7 thousand barrels (bbl) of oil per day and 14 million cubic feet (scf) of gas per day.

Tecpetrol holds a majority share of the block. El Tordillo currently has over 350 wells in production and 100 injection wells.

Tecpetrol holds a 23% share and is the operator of the Aguaragüe block in

northwest Argentina. Production there stands at 34 million cubic feet of gas per day and 1.0 thousand bbl of oil per day.

In Colombia, Tecpetrol is developing the CPO-13 block, which produces 9 thousand bbl of oil per day.

In Ecuador, the company leads, with 72.5% of the shares, a consortium formed with Sertecpet to develop the Libertador field. In addition, Tecpetrol holds a 28.56% share and participates in the technical and investment decisions made by the Shushufindi field consortium, led by Schlumberger. Both fields produce almost 65,000 barrels of oil per day.

With Pemex as partner (51%), Tecpetrol has a 24.5% share and is the operator of the Misión block in Mexico, where there are currently more than 125 wells in production with a total output of approximately 80 million cubic feet of natural gas per day and 0.4 thousand bbl of oil per day.

The company also holds non-operating interests in the E&P industry, such as a 10% share in the Camisea block of the Ucayali basin in Peru, that produces 1,600 million cubic feet of gas per day and 70 thousand bbl of oil per day; a 20% non-operating interest in the Ipati and Aquío blocks of the Tarija basin, Bolivia, that produces 330 million cubic feet of gas per day and 8 thousand bbl of oil per day; a 25% share in the Ramos block of the Northwest basin in Argentina; and a 17.5% share in Baripetrol Mixed Enterprise, which operates the Colon Unit of the Maracaibo basin, Venezuela.

## Gas Transportation

Since 1992, Tecpetrol is also a shareholder of and participates in the operation of gas transportation and distribution companies, and has become a successful developer of gas infrastructure projects. The company promotes new initiatives, taking advantage of business opportunities and supporting the role of private investment in the integration of the energy infrastructure of neighboring countries in Latin America.

Tecpetrol holds shares in - and jointly operates with leading international players - strategic energy companies in Argentina and Mexico. The company holds stakes in Transportadora de Gas del Norte (TGN), Transportadora de Gas del Mercosur (TGM) and Litoral Gas in Argentina.

Tecpetrol holds a 23.1% share and is the co-operator, together with Compañía General de Combustibles (CGC), of TGN. This company operates two



Central Processing Facility (CPF)  
en Fortín de Piedra, Neuquén.

main pipelines (6,800 km) in the northern and western regions of Argentina, connecting two major gas producing basins to the country's main industrial belt (Córdoba, Rosario, Buenos Aires), and serving eight of the nine local gas distribution companies. TGN also provides the link to major gas exporting pipelines that lead to Chile and Brazil.

Tecpetrol holds a 21.8% interest in TGM, the owner of the 440-km pipeline that allows exports of natural gas from Argentina to Brazil, and TGN is the operator of the pipeline.

Tecpetrol holds a 27.5% share in Litoral Gas and participates in its management. This company distributes gas in the province of Santa Fe and in the northern part of the province of Buenos Aires. It is located at the hub of the TGN system.

## Power Generation

Central Eléctrica Pesquería is a 900-MW combined cycle gas power plant in Monterrey, Mexico, which began commercial operations in December 2016. It was built to supply electricity to Ternium and Tenaris plants in the country. Tecpetrol holds a 30% share. The total investment for this power plant was USD 1 billion.

[www.tecpetrol.com](http://www.tecpetrol.com)

# HUMANITAS

A photograph of two surgeons in an operating room. They are wearing blue scrubs, green surgical caps, and white masks. They are focused on a patient, with surgical instruments visible in the foreground. The scene is lit by overhead surgical lamps, creating a professional and clinical atmosphere.

TECHINT GROUP COMPANIES

**To improve patients' lives through increasingly effective cures and an innovative and sustainable organization; to invest in research that has concrete impact on the progress of Medicine; to form a new generation of professionals through a model that combines Clinic, Research and University. This is Humanitas' mission.**



# Humanitas

◀ A cutting-edge operating theater at Clinica Fornaca, Turin.

Humanitas' management model combines economic sustainability with social responsibility and has been used as a case study at Harvard University for Health Care courses. It relies on a wide application of advanced integrated information technology systems, and the use of the Internet to facilitate the relationship between hospitals, clients and suppliers.

The main features of this model are the complete control of open, on-the-spot cost analysis; low average hospital stays or stopovers; the minimization of waiting time; and the high level of service under a Diagnosis Related Group (DRG) payments system.

The model also requires constant interaction between medical staff and managers to ensure high levels of quality and the maintenance of a humane, patient-oriented approach in the delivery of health care.

Humanitas is also the holding company which includes the Istituto Clinico Humanitas near Milan and eight other hospitals in Italy: Humanitas San Pio X in the center of Milan, Humanitas Gavazzeni and Humanitas Castelli in Bergamo, Humanitas Mater Domini in Castellanza (Varese); Humanitas Cellini, Humanitas Gradenigo and Clinica Fornaca di Sessant in Turin, Humanitas Istituto Clinico Catanese in Catania (Sicily).

The brand new Humanitas Medical Care Principe Oddone in Turin.



To reach out to citizens in the northern part of Italy, it establishes

**Humanitas Medical Care** centers outside its hospitals, providing diagnostic and preventive services in places that are easy to reach, and also supported by smart technologies.

In 2014, **Humanitas University** was born. It is a private non-profit institution dedicated to the medical sciences, interconnected with Humanitas hospital, where the residency activities take place. Courses are based on more than 15 years of experience in academic teaching and an active learning approach.

### *Milan*

**Istituto Clinico Humanitas** (ICH) is a highly specialized hospital, research and teaching center. Built around centers for the prevention and treatment of cancer, for cardiovascular, neurological, orthopedic, immune and inflammatory disease - together with an Ophthalmic Center and a Fertility Center - Humanitas also operates a highly specialized Emergency Department and the Emergency Hospital 19, dedicated to the treatment of infectious diseases.

The hospital has 759 beds, 43 operating theatres, and more than 200 outpatient clinics. As the first Italian hospital quality-certified by the Joint Commission International, ICH is also accredited by the National Health-Care System and is considered one of the most technologically advanced hospitals in Europe. In 2022, ICH was awarded by the National Agency for National agency for regional health services (Agenas) for having provided better treatment and health care to citizens in all the areas: from tumors to operations for hip fractures, passing through heart treatments.

Some of Humanitas' most significant examples of innovation and cutting-edge technology include three last generation linear accelerators (one Edge and two TrueBeam) for radiotherapy; Gamma Knife for brain radiosurgery; three intraoperative CT for spine and cranial surgery designed to function inside existing operating rooms with High-Resolution Computed Tomography image quality that increases surgeon confidence and supports advanced minimally invasive surgery; robotic surgical systems; latest generation lasers for ophthalmology; two PET-CT, and six Nuclear Magnetic Resonance stations, including 3 Tesla and 2 openbor NMR.

Appointed as IRCCS by the Ministry of Health (an accreditation in the Italian system that acknowledges institutions focused on excellence in clinical care and research), Humanitas is a world-famous research center for immune system related diseases.

400 researchers work at the Humanitas' Research and Teaching Center - which is fully integrated with the hospital - using cutting-edge technology. The group



operates in close collaboration with the physicians of the hospital, in order to facilitate the direct implementation of the most recent advances in healthcare through a systematic and ongoing process of innovation.

To support Humanitas researchers in all the hospitals and especially in ICH there is Humanitas Research Foundation: a non-profit organization which works in a network with centers of excellence such as New York University, University of Louvain, Center for Biotechnology in Madrid, Queen Mary School of Medicine in London and Pasteur Institute in Paris.

Humanitas' scientific production has continued to increase in quality, as indicated by bibliometric indexes: 10,102 Impact Factor points in 2020 (ranking among the first IRCCS institutions in scientific output), with particular focus on the immune-degenerative area.

A team of engineers, data scientists and physicians work side by side in a center dedicated to artificial intelligence for medical research and patient care. The objective of the Humanitas AI Center is to provide better diagnostic tools and treatments and open new avenues to research by means of big data analysis, Machine Learning, and the complementary expertise of various professionals.



The Humanitas University Campus has been designed according to the most modern standards in terms of technology and environmental comfort, so as to promote opportunities for teachers, researchers and young students from all over the world to meet and exchange ideas.

**Humanitas University** is an International Medical School based in Milan with more than 1,800 students, closely integrated with the renowned Humanitas Research and Teaching Hospital. Humanitas University stands out for its international outlook: 40% of students are non Italian and the visiting faculty includes internationally renowned researchers. In addition to the international Medicine course, there is also the innovative Medtec School, in collaboration with the Politecnico di Milano: a degree course in medicine that integrates and enhances medical knowledge with that of biomedical engineering. Degree courses in Nursing, Physiotherapy and a master's degree course in Nursing and Midwifery Sciences complete the educational offer. On the post-graduate front, there are 22 postgraduate schools, 2 PhDs and several Masters courses. Classes are held on the new Campus, which has been designed according to the most modern standards in terms of technology and environmental comfort, so as to promote opportunities for teachers, researchers and young students from all over the world to meet and exchange ideas. In the Campus there is the Simulation Lab, which includes the Mario Luzzatto Simulation Centre and an Anatomy Lab: a highly technological space of over 2,000 square meters, one of the largest in Europe, available to students, postgraduates and health professionals, who can train according to different levels of specialization and complexity.

Having joined the Group in February 2016, **Humanitas San Pio X** is a historic clinic in Milan marked by a strong connection with the area and located close to the new city center, in the vibrant area of Garibaldi, Gioia and Isola.

With its 182 beds certified by the National Health Service, eleven Operating Rooms, two Pre Delivery Rooms, two Delivery Rooms, 44 outpatient clinics, two endoscopy rooms, and radiotherapy rooms, the hospital offers outpatient consultation, inpatient admissions, Day Hospital, and Day Surgery health care. The Maternity Ward, with over 1,000 deliveries a year, ensures privacy, quality, and safety to all couples at all times, offering advanced pre-natal diagnostic tools and exams and innovative postnatal services. Humanitas San Pio X is actively involved in campaigns on the importance of healthy lifestyle and is focused on prevention and early diagnosis, especially for women, as demonstrated by Onda, the National Observatory for Women's Health. The new center Humanitas per lei, in particular, takes care of women's health at every stage of life.

Among the other highlights: orthopedic surgery, which offers innovative and minimally invasive therapies, including robotic surgery, specialized surgery for treating disorders such as roncopathy or obesity and robotic laparoscopic surgery in urology, and general and gynecological surgery for the mini-invasive treatment of many tumors such as prostate, kidney, rectal colon and uterus.

### ***Bergamo***

In 1999 Humanitas acquired Cliniche Gavazzeni, a historic hospital located in Bergamo, renamed **Humanitas Gavazzeni**. Founded in 1903, the hospital is internationally renowned for cardiovascular surgery and oncology and has been accredited by Joint Commission International. In accordance with this vocation, in 2019 a robotic cardiac surgery program was launched, the first one active in Italy and among the 26 active departments in Europe.

Over the years, activity has grown and today it includes cardiovascular surgery, cardiology with hemodynamics and electrophysiology, general surgery, thoracic and urological, orthopedics and traumatology, spinal surgery, hands and upper limb surgery, general medicine, senology, radiotherapy, dialysis, nuclear medicine and obesity, in addition to wide-ranging outpatient services. And since 2017, the Humanitas University Nursing degree program in Bergamo has combined highly specialized clinical experience with university research and teaching activities.

Humanitas Gavazzeni has eleven operating theaters, intensive care units and a coronary unit. The hospital also has a Department of Imaging Diagnostics with RMN and TC and three nuclear accelerators in radiotherapy. Humanitas Gavazzeni is equipped with a modern and innovative emergency and admission department (Emergency Center/DEA) and has 326 beds.

Since December 2020, Humanitas Gavazzeni has strengthened the emergency

department, building a new Emergency Center: a 4,000 m<sup>2</sup> emergency department with its own Intensive Care, in-patient rooms, operating and diagnostic areas with the latest CT and X-ray equipment. The Centre is equipped to deal with all kinds of emergencies by ensuring separate paths for patients with infectious diseases. In 2021, in the occasion of the first National Day in memory of the victims of the coronavirus epidemic, Humanitas Gavazzeni published a book titled “Il Coraggio e la Memoria” (“Courage and memory”) which testifies the commitment on the front line of the hospital during the fight against Covid-19 in the first phase of the pandemic.

Joining the group in January 2018, Humanitas Castelli is well-positioned in the urban and social context of Bergamo thanks to its strategic location near the city center. Today the hospital includes Ophthalmology, General Surgery, General Medicine with subacute care unit, Proctology, Orthopedics, hands and upper limb surgery, Otorhinolaryngology, as well as outpatient activities. The structure is equipped with four operating rooms, one dedicated to ophthalmology, and 102 inpatient beds. Its specificities include enhanced diagnostics, TC and RMN, with the latest technology.

Since 2018, Humanitas Gavazzeni and Castelli collaborates with the Accademia Carrara museum for a project that is developed in two phases. The first one was La Cura e la Bellezza: 25 masterpieces by Raffaello, Botticelli, Lotto, Bellini and Hayez covered 400 square meters of the two hospitals for the benefit of patients and health workers. The second phase is living through Opere in Parole.

With this project the representations not only cover the walls, but enhance patient wellbeing through stories and podcasts written and narrated by famous authors. Over 1,200 square meters of masterpieces, a unique hospital and museum project never seen before ([www.lacarrarainhumanitas.it](http://www.lacarrarainhumanitas.it)).

### **Turin**

**Humanitas Cellini** is a multi-specialist hospital well known for its medical and surgical activity with 120 inpatient beds. Humanitas Cellini has been accredited by the National Health Service since 2003 and its main fields of surgical and medical specializations are orthopedics, vascular surgery and urology. Cellini is an orthopedics benchmark for prosthetic surgery. It has also an Outpatient Diagnostic Center that covers all the medical specialties.

**Humanitas Gradenigo** is a multispecialty hospital certified by the National Health Service for outpatient care and hospitalization. Founded in 1900, the hospital has a great medical tradition, and it is a benchmark in Oncology and Emergency-Urgency services in the Piedmont region. It has 180 beds, six operating rooms, and an Emergency Service with 45,000 admissions per year. It was one of the first hospitals in Italy to receive ISO 45001:2018 accreditation for safety.

The hospital is an oncological benchmark for medical care of skin, colon, stomach, urological and endocrinological cancer.

In Turin Humanitas is also present with two Humanitas Medical Care, providing diagnostic and preventive services. The opening of a new Humanitas Medical Care in the shopping mall “Lingotto” is also planned: 700 square meters dedicated to visits, examinations, women’s center.

The **Fornaca di Sessant Clinic** has always been a point of reference in private healthcare in the Piedmont region. Active since 1948, today the Clinic is home to over 700 of the most prestigious medical specialists and offers courses in surgery and outpatient care of the highest level, with the best technologies for diagnostics and care, such as the Da Vinci and Excelsius GPS surgical robots.

It is equipped with eight operating rooms, a digestive endoscopy center with AI and latest-generation complex outpatient surgery, a diagnostic center with dedicated spaces and three hospital pavilions with the highest standards of care and comfort. Fornaca has also an Outpatient Diagnostic Center that covers all the medical specialties for about 60,000 outpatient visits and exams per year.

### *Castellanza*

**Humanitas Mater Domini** is a multispecialty hospital in Castellanza (Varese, Italy) certified by the National Health Service for outpatient care and hospitalization. It has been part of the Humanitas Group since 2007, sharing its excellent health services certified by Joint Commission International, as well as deep local roots and the strong interaction with the top scientific community. The hospital has a 160 bed ward, six inpatient units, eight operating theaters, interventional cardiology labs (hemodynamic and electrophysiology), diagnosis and care services, outpatient area, emergency room and dental center.

In September 2021 Humanitas Mater Domini inaugurated its Building 3. The new area combines personalized treatment paths, research, a multidisciplinary approach to therapies, technological innovation and digital services, in continuity with the hospital.

The new structure is spread over an area of over 3,500 square meters in which there are 38 clinics, two surgical rooms, the collection center, the Checkup area, the hospital’s second X-ray District, the new Eye Center and an Auditorium.

In 2011 Humanitas Mater Domini was the first healthcare facility in the district of Varese to obtain OHSAS 18001:2001 certification (management system for workplace safety and health). In 2019 the Hospital updated the standard OHSAS 18001:2001 to ISO 45001:2018 and in 2021 the Certification ISO 45001:2018 was renewed. The quality accreditation from the Joint Commission International, first achieved by the hospital in 2007, was reconfirmed in December 2022.

## **Catania**

**Humanitas Istituto Clinico Catanese** was born in April 2020 as a replacement to Humanitas Centro Catanese di Oncologia, founded in 1958. It is a private hospital also accredited by the National Health Service, located in the east of Sicily, close to Catania. The Hospital has 178 beds, 6 operating rooms with up-to-date technology, 1 Intensive Care Unit, 6 stations with a multi-parameter telemetric monitoring system; each station is also provided with a ventilator. The Units of Medical Oncology, Surgery and Radiation Oncology, particularly specialized in the treatment of abdominal, gynecologic, breast and thyroid diseases, have been joined by the Units of Neurosurgery, Orthopedics and Rehabilitation.

Humanitas Istituto Clinico Catanese is endowed with up-to-date diagnostic and therapeutic equipment, such as 3 linear accelerators (TrueBeam and TrueBeam STx) for radiation oncology; 1 intraoperative CT, designed to work inside operating rooms with High-Resolution Computed Tomography image quality that increases surgeon confidence and supports advanced minimally invasive surgery; 1 intraoperative 3D navigation system for spine and brain surgery; 2 MRI and 2 PET-CT with dedicated software for radiation oncologic treatments; 3 Mammography systems, 2 of which with tomosynthesis and 3D imaging and 1 with stereotactic biopsy equipment; 1 system to monitor the radiation dose optimization for all patients who undergo radiological investigations.

Humanitas Istituto Clinico Catanese is accredited with Joint Commission International, since 2014; the Hospital is also an internationally certified Breast Center, for its paths of diagnosis and treatment of patients with Breast Cancer in compliance with the quality scheme requirements of Eusoma, the European Society of Breast Cancer Specialists. Quality and safety of patient healthcare have always been the final targets of Humanitas Istituto Clinico Catanese.

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*Published in 2023*

