The Techint Group
2018
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 2018 had total revenues of USD 23.5 billion and 57,100 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, 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;

**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 innovative, reliable and sustainable solutions in metals and mining, designs technologies and develops services that help companies reduce costs, save energy, limit environmental impact 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;

**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 aim for competitiveness in international markets, invest in human resources and scientific research, promote health and safety among employees, are careful of the impact of operations on the environment, establish transparent and constructive relations with local communities and foster long-term relationships with clients and suppliers. In respect of its founding philosophy, the Techint Group does not engage in purely financial activities.
The Techint Group
2018

This publication serves the purpose of presenting the Techint Group and its main activities in the year 2018.
**Highlights**

**TERNIUM**

**SHIPMENTS OF STEEL PRODUCTS***

*Shipments of pig iron not included.

**SALES BY REGION IN 2018 USD million**

**TOTAL 11,454**

- NORTH AMERICA: 3,612
- SOUTH AMERICA: 1,462
- MIDDLE EAST & AFRICA: 1,560
- ASIA PACIFIC: 300
- EUROPE: 725
- OTHER MARKETS: 3,177
- MEXICO: 3,343
- SOUTHERN REGION: 1,894

**TECHINT GROUP HIGHLIGHTS USD Million**

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenues</strong></td>
<td>23,826</td>
<td>19,108</td>
<td>15,238</td>
<td>18,495</td>
<td>23,490</td>
</tr>
<tr>
<td><strong>Permanent Employees</strong></td>
<td>58,257</td>
<td>51,191</td>
<td>48,530</td>
<td>55,383</td>
<td>57,074</td>
</tr>
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1. Includes Republic Conduit, sold in January 2017.
TECHINT ENGINEERING & CONSTRUCTION

HIGHLIGHTS

BACKLOG OF ORDERS BY REGION
AS OF 12/31/18 USD million

<table>
<thead>
<tr>
<th>Region</th>
<th>USD million</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>1,218</td>
</tr>
<tr>
<td>EUROPE, MIDDLE EAST, AFRICA</td>
<td>355</td>
</tr>
<tr>
<td>ARGENTINA</td>
<td>293</td>
</tr>
<tr>
<td>MEXICO</td>
<td>252</td>
</tr>
<tr>
<td>BRAZIL</td>
<td>269</td>
</tr>
<tr>
<td>OTHER AMERICA</td>
<td>326</td>
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</table>

HUMANITAS GROUP: IMPACT FACTOR*

<table>
<thead>
<tr>
<th>Year</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
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<tr>
<td>Value</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tr>
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</table>

TENOVA

BACKLOG OF ORDERS BY REGION
AS OF 12/31/18 USD million

<table>
<thead>
<tr>
<th>Region</th>
<th>USD million</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
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</tr>
<tr>
<td>EUROPE &amp; CIS</td>
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<tr>
<td>CHINA</td>
<td>172</td>
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<tr>
<td>MIDDLE, FAR EAST &amp; OCEANIA</td>
<td>245</td>
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<tr>
<td>AFRICA</td>
<td>34</td>
</tr>
<tr>
<td>NORTH &amp; SOUTH AMERICA</td>
<td>357</td>
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</table>

TECPETROL

PROVED RESERVES*

<table>
<thead>
<tr>
<th>Year</th>
<th>2014/15</th>
<th>2015/16</th>
<th>2016/17</th>
<th>2017/18</th>
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<tbody>
<tr>
<td>Value</td>
<td>150</td>
<td>300</td>
<td>450</td>
<td>600</td>
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</table>

HUMANITAS GROUP: UNIQUE CLIENTS

<table>
<thead>
<tr>
<th>Year</th>
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<th>2016</th>
<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
<td>Value</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

* Own working interest.

HUMANITAS

HUMANITAS GROUP: IMPACT FACTOR*

<table>
<thead>
<tr>
<th>Year</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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<td>0</td>
<td>0</td>
<td>0</td>
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</tr>
</tbody>
</table>

* Widely established measure of the quality and resonance of scientific publications.
“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 Latin America - to where Agostino Rocca had traveled after World War II - and Europe. 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 E&C activities of the company extended during the 1950s to the field of power infrastructure. In those early years, the company started the production of 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, E&C 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 and Chile, Bolivia and Brazil, and Brazil and 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 70 years of activity, Techint Engineering & Construction has successfully completed more than 3,500 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 four stock exchanges: Buenos Aires, Mexico City, Milan, and on 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 a presence in Colombia through TuboCaribe; 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 undertook two major investments in North America: 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, and has 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, and the construction of a new mill in Conroe, USA.

The company’s most recent expansion projects aim to bolster its global positioning in two relevant oil and gas markets - Saudi Arabia and Russia. 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 acquisition closed at the beginning of 2019.
In early 2019, Tenaris announced a USD 240 million joint venture with Severstal to build a welded pipe plant in West Siberia to better serve a growing market for OCTG pipe products.

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 and 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 galvannealed 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 1.5 million tons of cold-rolled steel and 400,000 tons of galvanized steel.
In February 2017, Ternium announced a definitive agreement with the German conglomerate thyssenkrupp AG to acquire a 100% ownership interest in thyssenkrupp Slab International B.V. and its wholly-owned subsidiary CSA Siderúrgica do Atlântico Ltda. in Brazil. The acquisition, completed in September 2017, made Ternium the largest steel producer 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 will enable the company to expand its product range in the country. In addition, recently announced new hot-dip galvanizing and pre-painting facilities also in Pesquería, strengthen its value chain and substituting imports. These two new lines will begin operations in 2019 and the new hot-rolling mill, which will be a state-of-the-art facility, will be ready by 2020.

With an annual production capacity of approximately 4.5 million tons of iron ore, 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 in order 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 22 countries across five continents and its product lines include innovative technologies for the metals and mining industries.

In metals, Tenova works both upstream and downstream, continuously innovating for clients by focusing on quality, energy savings and environmental protection in areas including metal making, hot and cold rolling, processing and aluminum, and dedicated services and components.

In mining, Tenova provides integrated solutions to the global mining, bulk material handling, minerals processing and beneficiation industries, offering innovative technological solutions as well as process and commodity knowledge along the industry value chains.

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, Tecpetrol leads the operation, in partnership with Ternium and Tenaris, of a gas combined cycle power plant in Pesqueria, near Monterrey, Mexico, which was inaugurated in December 2016. With an investment of USD 1 billion, the 900-MegaWatts plant provides energy to Ternium and Tenaris facilities in Mexico.

In 2017, Tecpetrol announced the investment of USD 2.3 billion until 2019 at the Fortín de Piedra field in Vaca Muerta for the development of shale gas in Argentina. By the end of 2018, Tecpetrol had already allocated USD 1.6 billion and achieved a level of production of 600 million cubic feet/day. This amount represents 13% of Argentina’s gas production.

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. The Humanitas network today includes nine hospitals and eight diagnostic centers.

Today, the Techint Group comprises six main companies operating worldwide through numerous subsidiaries, supported by a workforce of experienced professionals and skilled workers numbering 74,500 total employees, 57,100 of which are permanent. The global annual turnover of companies of the Techint Group, public and non-public, was USD 23.5 billion in 2018. The magnitude of operations of the main companies of the Techint Group may be gleaned from the following table:

<table>
<thead>
<tr>
<th>Techint Group Companies - significant data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tenaris: total (seamless and welded) tube shipments in 2018 (million tons)</td>
<td>3.6</td>
</tr>
<tr>
<td>Ternium: shipments of steel products* in 2018 (million tons)</td>
<td>12.9</td>
</tr>
<tr>
<td>Techint Engineering &amp; Construction: overall annual sales as of December 31, 2018 (billion of USD)</td>
<td>1.6</td>
</tr>
<tr>
<td>Tenova: backlog of work as of December 31, 2018 (billion of USD)</td>
<td>1.2</td>
</tr>
<tr>
<td>Tecpetrol: oil &amp; gas working interest including service contracts in 2018: (thousands bbl of oil equivalent/ day)</td>
<td>124</td>
</tr>
<tr>
<td>Humanitas: unique clients in 2018 (thousands)</td>
<td>927</td>
</tr>
</tbody>
</table>

* Excluding pig iron.
Values

Techint Group companies share an original philosophy of long-term presence, commitment to local development, and a passion for quality and technology. The success and growth of its companies also reflect a management approach based on continued investment in human resources and the development of people’s capacities and responsibilities in a safe working environment where teamwork is as essential as individual drive and initiative.

Techint Group companies are “multilocal” industrial enterprises deeply rooted in the countries where they operate, and are established with such objective in mind. Thus, they possess a thorough understanding of local cultures, and are able to recognize, and draw fully from local strengths and skills. Companies are committed to economic progress and contribute to local development and growth through their output, investment in human resources and investments aimed at improving the welfare of the communities in which they operate. They respect, care for, and contribute to the quality of the surrounding environment.

The management of Techint Group companies is renowned for its professionalism and for the strict financial and operational control it exercises over all ventures. Thus, Techint Group companies are ideal partners for business initiatives, and have often set up joint ventures with both local and foreign partners wherever they have an established presence.

Techint Group companies aim for competitiveness in international markets, relying on quality, technology and an understanding of their clients’ needs. Techint Group companies have always prided themselves on their ability to manage complex projects and integrate up-to-date technology in all fields of operation, beginning with the companies’ own industrial and service facilities and the information and communication technology links that allow them to operate worldwide.

A full understanding and evaluation of clients’ needs is a main principle of the Group’s philosophy as companies strive to develop long-term relationships with them.

Respecting the philosophy of its founder, Agostino Rocca, it is not the policy of the Techint Group to engage in purely financial activities.
During more than 70 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, 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 establishing long-term relationships with customers and suppliers.
Today, the companies of the Techint Group are active in a small number of clearly circumscribed industries, where they have global or regional prominence:

- **Tenaris** is a leading supplier of steel tubes and related services for the world’s energy industry and certain other industrial applications;
- **Ternium** is a leading supplier of flat and long steel products in Latin America, with steel manufacturing and processing facilities, and service and distribution centers in the Americas;
- **Techint Engineering & Construction** offers integrated services ranging from design to execution for high complexity projects in the Oil & Gas, Power, Industrial Plants, Downstream & Chemicals and Mining sectors, as well as Infrastructure & Architecture Civil Works;
- **Tenova** is a worldwide partner for innovative, reliable and sustainable solutions in metals and mining, which designs technologies and develops services that help companies reduce costs, save energy, limit environmental impact 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;
- **Humanitas** promotes, implements and manages health care initiatives, research and teaching.

In addition, Techint Group company **Exiros** provides a wide range of industrial procurement services to many of the above companies, negotiating USD 9 billion per year in purchases of raw materials, industrial goods and services for its customers.

**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 & gas companies, as well as engineering and industrial companies. Tenaris has manufacturing facilities in Argentina, Brazil, Canada, Colombia, China, Ecuador, Indonesia, Italy, Japan, Mexico, Romania, Saudi Arabia and the United States, a proprietary global service along with a worldwide distribution network. Tenaris’s annual production capacity is 4.3 million tons of seamless pipes and 2.6 million tons of welded pipes.

The company employs approximately 23,500 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 & 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, Buenos Aires 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.
**Ternium**

Ternium is a leading steel producer in Latin America. It has an annual production capacity of 12.4 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 20,700 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 since 2006 a public company listed on the New York Stock Exchange (NYSE:TX).

**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 70 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 more than 20,500 employees worldwide, the company has successfully completed more than 3,500 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 innovative, reliable and sustainable solutions in the metals and mining industries. Leveraging a staff of more than 3,000 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 mining and metals companies reduce costs, save energy, limit environmental impact 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.

**Humanitas**

In Italy, the Techint Group is active in healthcare through the Istituto Clinico Humanitas and the Humanitas Group. Humanitas promotes, implements and manages healthcare 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).

The delivery of healthcare in these structures is based on Humanitas’ economically successful, patient-oriented management model, supported by state-of-the-art technologies.

Today the Humanitas Group also includes 12 diagnostics centers: an innovative way of doing healthcare by meeting citizens and their health and prevention needs directly on the territory.

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 autumn of 2017 marked the opening of the new Humanitas University Campus and the autumn of 2018 the opening of Mario Luzzatto Student House.

**Exiros**

Exiros is a global company that offers integral procurement solutions, from suppliers scouting activities to inventory management and trading of raw materials, production materials and equipment. Exiros centralizes the purchasing operations of Tenaris and Ternium, the steel business companies of the Techint Group, and a portion of Techint Engineering & Construction’s, consolidating near 9 billion dollars in purchases of a wide range of categories, including the aforementioned in trading, plus supplies, transport and services. The company employs more than 500 people in Argentina, Brazil, Canada, China, Colombia, Guatemala, Italy, Indonesia, Mexico, Nigeria, Romania, The Netherlands, Uruguay, and the United States. Fully owned by Tenaris and Ternium, Exiros aims to increase the efficiency of its shareholders’ supply chains, leveraging on the support of 13,580 active suppliers and performing more than 840,000 transactions every year.
Tenaris’s mission is to deliver value to its customers through product development, manufacturing excellence and supply chain management. The company seeks to minimize risk for customers and help them reduce costs, increase flexibility and improve time-to-market. Tenaris employees around the world are committed to continuous improvement by sharing knowledge across a single global organization.
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 2018 produced 3.6 million tons of seamless and welded pipes including tubes and projects.

Tenaris is a public company, incorporated in Luxembourg, with its shares listed in Milan, Buenos Aires 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 23,500 people worldwide.

Tenaris’s customers include most of the world’s leading oil & gas companies as well as engineering companies engaged in constructing oil & 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 2018, Tenaris had annual net sales of USD 7.7 billion.
Global Lines of Business

Oil Country Tubular Goods (OCTG) and Premium Connections
Tenaris supplies a full range of high quality casing and tubing, drill pipe, premium connections, pipe accessories, sucker rods and coiled tubing for use in all types of oil & 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 covers the entire project lifespan, from the selection of materials to pipe handling and on-site technical assistance during running.

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, with on-site ready for installation delivery. Tenaris focuses on providing the risers, flowlines and subsea tubular components for the 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, and 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.

**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 center, a TenarisUniversity building and has obtained international environmental certifications.

In the United States, Tenaris produces a complete size range of Oil Country Tubular Goods (OCTG), including technologically advanced products such as premium connections, coiled tubing and coiled sub-sea umbilicals. Main plants are located in the Houston area and in Arkansas. A sucker rods mill has also been built in Conroe, Texas.
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 growing network of service centers, including the onsite yard at TenarisBayCity and Freeport in Texas; Midland in Texas; Amber in Oklahoma; and in 2018, a leased yard in Beech Bottom in West Virginia, positioning Tenaris closer to its customers in active shale plays in the States.

In Canada, Tenaris has two production facilities: a seamless steel pipe manufacturing plant located in Sault Ste. Marie, in the province of Ontario; and a welded steel pipe manufacturing facility based in Calgary, Alberta. 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 offering by opening its newest 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 Valentin 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 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.

At Pindamonhangaba, 160 kilometers from the city of 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 & 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, Tenaris inaugurated in 2014 a new threading facility for OCTG products in the town of Machachi, Ecuador.

**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’s manufacturing facility in Asia, operated by NKKTubes, is a seamless steel pipe plant located in Kawasaki, Japan, in the Keihin steel complex owned by JFE. The facility produces seamless pipes with an outside diameter range of 1 to 17 inches. Steel bars and other essential inputs and services are supplied by JFE, which retains a 49% interest in NKKTubes.

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

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 closed at the beginning of 2019.
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 facilities in Argentina, Brazil, Italy, Mexico and Japan, 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 & 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.

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.

In February 2018, TenarisUniversity launched a new online learning model, partnering 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.

Finally, Tenaris co-sponsors the Roberto Rocca Education Program, founded in 2005 and named after the Techint Group’s late Chairman. This initiative provides scholarships and fellowships to talented undergraduate and graduate students of engineering and the applied sciences.

www.tenaris.com
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

Ternium is Latin America’s leading flat steel producer with manufacture, process and distributing operations in Mexico, Brazil, Argentina, Colombia, the southern 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 2018 of USD 11.4 billion, Ternium employs around 20,700 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.

In 2017, Ternium laid the foundations for a new cycle of growth with the acquisition of Thyssenkrupp’s advanced steel slab production facilities in Brazil and its expansion plans in Mexico and Colombia. And in 2018, the company reached an agreement with Nippon Steel & Sumitomo Corporation that established new governance rules for Usiminas.

In addition, for the first time, Ternium published its Sustainability Report, which presents key indicators that assess how the company’s commitment to be sustainable in the long term translates into reality. These actions made possible major integration and as a consequence the company had a historic year with a total of 77 production records in all the countries where it operates. Ternium shipments of steel products reached 12.9 million tons in 2018, a 12% increase compared with the previous year.

**Mexico**

Ternium has 12 steel production and/or processing units in Mexico, consisting of three integrated steel-making 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 ten retail distribution centers in this region, aimed at serving customers mainly in the construction sector.

Mexican industrial sectors proved to be very dynamic in recent years. In particular, light vehicle production decreased 0.6 % in 2018, due to uncertainty generated by local and international political changes, according to the Automotive Industry Mexican Association. With 3.9 million units produced in 2018, Mexico ranks as the world’s sixth largest motor vehicle manufacturer.

As a leading supplier of flat steel products in the country, it continued running its integrated steelmaking facilities at close to full capacity.
In September 2017, Ternium announced the construction of a new hot-rolling mill in Pesquería, which will enable the company to expand its product range in the country. In addition, recently announced new hot-dip galvanizing and pre-painting facilities in Pesquería will enable Ternium to produce new high-end value-added products for the home appliance, HVAC and automotive industries, strengthening its value chain and substituting imports.

These two new lines will begin operations 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, which will be a state-of-the-art facility, will be ready until 2020, with an annual production of 4.1 million tons.

Power supply to Ternium facilities in Mexico was further secured starting from the fourth quarter of 2016 with the commissioning of Techgen’s new 900-megawatts power plant in Nuevo León state, 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. The investment in Techgen performed very well, with savings on Ternium’s energy costs and positive margins on the sale to third parties of the company’s unused quota.
**Southern Region**
The Southern Region encompasses the steel markets of Argentina, Bolivia, Chile, Paraguay and Uruguay. Shipments in the Southern Region reached 2.3 million tons in 2018, a 6% decrease than a year earlier. They represent 18% of Ternium’s total steel shipments. Most of the shipments are destined to the Argentine market, where Ternium is the leading supplier of flat steel products. In 2017 Ternium invested USD 95 million in the Southern Region, mainly in upgrading the hot-rolling mill in Argentina and expanding the connectivity and automation of the equipment, as well as in improving environmental and safety conditions of the facilities.

**Brazil and Other Markets**
Ternium major shipment destinations in the Other Markets Region are the United States, Brazil, Colombia and Central America. Shipments in Other Markets increased 63% year-on-year to reach 4.1 million tons. They now represent 32% of Ternium’s total steel shipments.

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 west of Rio, the plant includes a 490MW combined cycle power plant and

The Roberto Rocca Technical School (ETRR) in Pesquería, Mexico, was inaugurated in 2016 and currently has 373 students. As well as its sister school in Campana, Argentina, it was built to strengthen technical education in the surrounding communities where the companies operate.
a deep-water harbor. The integration has consolidated Ternium as the leading flat steel producer in Latin American and gives the company new opportunities for growth and integration. In 2018, the plant in Rio produced 4.6 million tons of steel achieving 10 new production records.

**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.

In 2018, net sales of mining products were 4% higher than in 2017 and shipments were 2% higher. The increase in net sales was mainly the result of an increase of shipments and revenue per ton.

**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.

The program focuses on helping SMEs in the steel industry’s value chain grow by enhancing their competitiveness and stimulating investments in this sector.

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. ProPymes currently assists over 1,500 SMEs in Mexico and Argentina.

**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 positioning in the automotive, transportation, home appliance, agricultural and oil & gas sectors.

To strengthen its research capacity, in 2018 Ternium installed the Gleeble simulator, which is located in the R&D Laboratory in Pesquería, and it is key in developing advanced steels for the new hot rolling mill which is being constructed.

**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 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.
Currently, Techint Engineering & Construction is simultaneously engaged in several large-scale projects in Argentina, Brazil, Chile, Ecuador, Egypt, France, Mexico, Peru, as well as other countries (see detailed references in the Techint Group Companies section of this publication).

In over 70 years of activity, Techint Engineering & Construction has successfully completed more than 3,500 projects in more than 45 countries, and continues to work on major industrial and infrastructure projects around the world.

<table>
<thead>
<tr>
<th>70 YEARS OF GLOBAL EXPERIENCE</th>
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<tbody>
<tr>
<td>More than 20,500 employees</td>
</tr>
<tr>
<td>More than 550 pipelines installed, totaling more than 70,000 km</td>
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<tr>
<td>Over 600 projects in the Downstream and Chemical sector</td>
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<tr>
<td>More than 590,000 tons of steel structures assembled</td>
</tr>
<tr>
<td>Over 300 projects in the Energy sector</td>
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<tr>
<td>More than 750,000 tons of equipment installed</td>
</tr>
<tr>
<td>More than 800 projects in the Oil &amp; Gas sector</td>
</tr>
<tr>
<td>An average of 1.5 million engineering man-hours worked per year</td>
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</table>
Techint Worldwide

Techint Engineering & Construction provides project management, engineering, procurement and construction 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 cultural norms.

With over 70 years of experience in the market, Techint Engineering & Construction has developed considerable expertise in the integral execution of high complexity projects, from design to commissioning, protecting the environment and the welfare of its neighboring communities. With more than 20,500 employees worldwide, the company has completed more than 3,500 projects in compliance with ISO/BS/OHSAS international standards in the Americas, Europe, Asia and Africa.

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

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

<table>
<thead>
<tr>
<th>MARKET SEGMENTS</th>
<th>CORE PRODUCTS</th>
</tr>
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<tbody>
<tr>
<td>OIL &amp; GAS</td>
<td>Central processing facilities and GOSPs; gas treatment plants; offshore platforms; marine facilities and installations; onshore Oil &amp; Gas and multiproduct pipelines; LNG regasification terminals.</td>
</tr>
<tr>
<td>POWER</td>
<td>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.</td>
</tr>
<tr>
<td>DOWNSTREAM &amp; CHEMICALS</td>
<td>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 &amp; HDS plants; alkylation units; isomerization units; offsite battery limit; methanol plants.</td>
</tr>
<tr>
<td>MINING</td>
<td>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.</td>
</tr>
<tr>
<td>INDUSTRIAL PLANTS</td>
<td>Steel processing plants and facilities; pipe manufacturing mills; aluminum smelters; pulp and paper mills; cement production plants; other manufacturing plants.</td>
</tr>
<tr>
<td>INFRASTRUCTURE &amp; ARCHITECTURE CIVIL WORKS</td>
<td>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).</td>
</tr>
</tbody>
</table>
Multilocal Presence

Argentina

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

The company has participated in some of the largest and most technologically challenging projects in the country, establishing its credentials as one of the major pipeline builders and as a premier contractor for oil refineries as well as chemical and petrochemical plants.

Brazil

Established in 1947, Techint Engenharia e Construção has 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 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 60 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. Today, the company is providing field optimization services for the Oil & Gas sector.

Tecpetrol’s Fortín de Piedra facilities in Vaca Muerta, Neuquén, Argentina.
Established in 1974, Techint has built pipelines, refineries, sea-lines and marine platforms, as well as provided services to the Power Generation, Oil & Gas and Petrochemical sectors.

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

Founded in 1945, the Milan Engineering Center offers high added-value services in areas where it has significant experience, such as Oil & Gas, Refinery, Power and Infrastructure (particularly for the Healthcare and Hospitals sector). 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.

Techint is one of the leading EPC companies in Mexico, specializing in lump-sum turnkey projects for the Power, Oil & Gas, petrochemicals
and steel industries. Established in 1954, the company has grown steadily over the last ten years, participating in key 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.

**Peru**

In 2009, Techint set up headquarters in Lima and has since then successfully carried out major projects in the Oil & Gas, Power and Mining sectors. This includes the construction of one of the largest infrastructure projects in Latin America: the Camisea gas and LNG pipelines, which are 730 and 560 km long running from the Peruvian rainforest across the Andes mountain range to the city gate in Lima, and the port of Pisco, respectively.

**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-engineering.com
2018 Reference List

Techint Engineering & Construction was involved in several milestone projects during 2018, the most significant of which are detailed below as an example of the company’s activities. These resulted in overall sales of USD 1.6 billion and a backlog of USD 1.2 billion by December 31, 2018.

OIL & GAS

• In Argentina, Techint Engineering & Construction has been building the surface facilities at the Fortin de Piedra project, located in the Vaca Muerta shale field, for Tecpetrol. This fast-track project to construct the Early Production Facilities (EPF) and Central Production Facilities (CPF) also involved laying the pipelines to carry water to the rigs and transport natural gas to the market.

• In Brazil, following four years’ work, the FPSO (Floating Production, Storage & Offloading) P-76 project for Petrobras successfully sailed away from the Techint Offshore Unit in Pontal do Paraná, where Techint E&C built 15 of the ship’s 20 modules. The company will continue to work offshore on the project until the end of the contract (August 2019). P-76 is one of the most complex and demanding projects ever undertaken by Techint.

• In Ecuador, Techint E&C has been working since 2011 on three blocks which concentrate 40% of the country’s total oil output. The company is providing EPC services for oil production optimization at the Auca field, as well as the full design, construction and installation of all the equipment and facilities required for the Shushufindi and Kamana projects.

• In Peru, Techint E&C continues to work on maintenance for the COGA (Compañía Operadora de Gas del Amazonas) gas transportation company throughout the Camisea gas pipeline system.

POWER

• In Argentina, Techint E&C is carrying out the closure phase of the El Bracho combined cycle power plant for General Electric, including the installation of a 260 MW turbo generator. The scope of the project includes civil works, assembly and precommissioning based on the customer’s design and equipment.

  The company is also working on the closure of the Genelba Plus combined cycle power plant, which will expand its capacity from 178 MW to 542 MW. Techint is providing detail engineering, supplies for the balance of plant, construction and assembly, as well as precommissioning, commissioning and start-up services.

• In Mexico, Techint E&C has concluded the Altamira Compression Station project for TransCanada, an EPC project. The company built a 135,000 HP capacity compressor station and a regulation, measuring and control station with 570-590 PSIG pressure and a throughput of 178 Mmcf/d, making it the largest plant of its kind in Mexico.

  In addition, Techint E&C is heading up the EPC contract for the 907 MW Norte III plant, one of the largest combined cycle plants in the country. In addition to EPC services, the company is also providing assistance for precommissioning and start-up for the main plant, substation and control systems.
INDUSTRIAL PLANTS

- In Mexico, Techint E&C is working on new galvanizing and industrial pre-painted lines at Ternium’s Pesquería industrial complex. The new lines aim to achieve an annual production capacity of 300,000 and 120,000 metric tons, respectively.

MINING

- In Chile, in the Antofagasta region, the company is building the Escondida Water Supply Expansion (EWSE) project for the world’s largest copper production mine. The goal is to increase water flow by installing six additional pumps at each of the three existing pumping stations, as well as laying a 14.4 km distribution pipeline.

- In Peru, Techint E&C has started work on the Mina Justa Seawater Pipeline with Marcobre. The project involves laying 40 km of pipelines to transport sea water to the mine, as well as building three sulfuric acid tanks and onshore facilities.

- In Mexico, Techint E&C is providing operation and maintenance services to the Comisión Federal de Electricidad (CFE) at the Petacalco coal reception and handling terminal in Lázaro Cárdenas, Michoacán. The company is also working on an EPC contract for the CFE to increase the Internal Carbon Management System’s transport capacity at the Petacalco thermal power plant.

INFRASTRUCTURE AND ARCHITECTURE CIVIL WORKS

- In Argentina, Techint E&C is working in partnership with the construction firm Dycasa on the final stages of the works to extend the H Subway Line in the city of Buenos Aires. The company has provided EPC and commissioning services for two sections of the subway, including building 6.1 kilometers of tunnels and six new stations. The civil and electromechanical works also comprised laying the tracks in addition to installing the power facilities, traction, signaling and communications systems, as well as the escalators, elevators and other station equipment.

  Techint E&C is working on three railroad projects in partnership with the Argentine construction firm Panedile: LP-49, located in Santa Fe province, to repair and improve the General Belgrano railway line, and the complete renewal of the railway infrastructure, including laying 46 kilometers of tracks.

  In the same province, the LP-01 EPC contract involves replacing 64 kilometers of tracks.

  Lastly, the LP-80 project envisages redesigning the current railroad configuration to optimize operations at the head of line in Retiro, the country’s busiest railway station, and laying new tracks for the future San Martín rail link.
Tenova provides the metals and mining industries with solutions that help companies reduce costs, save energy, limit environmental impact and improve working conditions, through a strong network in all key business regions worldwide.
Tenova is a worldwide partner for innovative, reliable and sustainable solutions in the metals and mining industries. Building upon 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 reduce costs, save energy, limit environmental impact 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 3,000 employees, men and women who take a proactive approach to problem solving in every business area in which they operate, and are continuously seeking 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 business approach. This approach can be summed up in four key pillars: Innovation, Reliability, Sustainability and Safety.
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 since its establishment:

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 and pollution, and increase overall facility efficiency. It focuses on increasing the level of automation and digitalization in its clients’ facilities, leveraging “information age” 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, retrofitting a steelmaking facility, or developing conveying systems, Tenova professionals become personally invested in each project they undertake, designing and implementing custom-tailored solutions that work quickly, efficiently and stand the test of time. Their passion for technology translates into reliable solutions.

**Sustainability**

Tenova’s approach to sustainability within the metals and mining industries can be summed up as “waste not, want not.” Tenova carefully analyses its clients’ industrial processes in order to identify solutions that will reduce energy consumption. It focuses on limiting raw material waste and improving facility efficiency so that its clients can both reduce costs and limit environmental impact. Tenova’s aim is to always be its clients’ first choice by offering a portfolio of “green tech” solutions that reduce air and environmental impact while saving energy.

**Safety**

There can be no business success without on-the-job safety, so Tenova ensures that every solution, every technology designed and implemented makes the surrounding workplace safer. Whether designing automated process solutions to reduce the number of operators on the floor, incorporating avantgarde 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 Metals division strives to innovate continuously for its clients in the metals industries, focusing on quality, energy savings and reducing pollution. Its goal is to favor robust, sustainable development. To accomplish this, Tenova Metals leverage a network of synergistic companies in order to provide clients with a fully integrated range of high quality products, technologies and services in the field of metal making, hot formed, cold rolling and processing.

**Metal Making**

Tenova is the leader in the field of metal-making solutions. As a pioneer in the field of Direct Reduction (DR) technologies, it provides leading-edge solutions for plant sizes, ranging from 200,000 tons per year Micro Modules to 2.5 million tons per year single modules only. The group offers also a full range of cutting-edge technologies for Electric Arc Furnace and Secondary Steelmaking, including environmental solutions
for fume treatment and energy recovery. Tenova is leading as well in the design and supply of high capacity AC and DC furnaces and complete smelting plants for production of ferroalloys, base metals, slag cleaning and refining.

**Hot Formed**

With an unmatched reputation backed by the experience of hundreds of reference plants, Tenova is a leading global supplier of hot rolling solutions. A product portfolio that spans from roll grinders for flat product rolling mills to the greatest variety of industrial furnaces for different fields of application: reheating for long and flat products; heat treatment for pipes, plates and forgings; specialty furnaces for calcining and carbon making. All using the latest and most advanced combustion technology able to excel in terms of energy saving and emissions.
**Cold Rolling**
The group offers a wide range of services including manufacturing, revamping and servicing for the cold rolling mill sector, supplying mill control systems, a full range of advanced automation technology and applications such as thickness gauges for tight tolerance production.
As a complete, experienced partner, Tenova is also a worldwide leader in the design and supply of roll grinders and roll shop equipment that guarantee the highest standards in terms of material quality, thickness tolerance and flatness.

**Processing**
Building upon its position as a world leader in High Performance Hydrogen bell-type annealing plants, Tenova guarantees a broad range of state-of-the-art processing solutions, with the design, supply and commission of: processing lines for carbon, stainless and silicon steel strips, heat treatment for wire, rods, tubes and bars, hot-dip galvanizing of components and fully automated roll shops. The group is also specialized in the area of heat treatment of components, with advanced vacuum and atmospheric furnaces.

**Aluminum**
From twin-chamber melting furnaces to advanced chemical technologies and high quality roll grinders, the group supplies its clients with cutting-edge solutions for a range of aluminum needs. Tenova is one of the main suppliers for aluminum treatment, with several processing lines successfully in operation and reaffirming its leadership as global supplier for the automotive industry.
Confirming its commitment to sustainability Tenova is a valuable partner providing the best engineering solutions for aluminum smelting and recycling.

**Service and Components**
Leveraging the skills and capabilities of its expert staff, Tenova custom-tailors a broad range of retrofits, modernizations, services and spare parts directly in-house for its clients, making sure mature equipment not only continues to function, but performs to the utmost of its capabilities into the future as well.
Tenova is also highly experienced in providing training and technological assistance to its customers, with a focus on quality, safety and sustainable development.

Over the past years, Tenova Metals has focused especially on two key topics at the heart of steel makers’ agendas in the current market scenario: innovation and sustainability.
In order to achieve successful results and reap all the benefits of digital technologies, steel makers need to establish close partnerships with enablers that have the adequate level of know-how and experience.
This is the reason why Tenova Metals has been investing in new business models based on digital competences and open innovation.
In particular, the company has put a lot of effort in developing new solutions based on the enabling technologies of Industry 4.0. This cross-BU initiative has recently led to the establishment of the Tenova Digital Team, a pool of experts working full time on this internal project. Specifically, the team has been focusing on three pilot projects - Predictive Maintenance, Plant Optimization and Remote Assistance. The ultimate goal is to optimize the production process, reduce costs, improve quality and increase production volumes.

The protection of the environment is another crucial challenge of the next 50 years for the steel industry. Steel is 100% recyclable for endless times, and by-products from steelmaking process have to be considered as valid alternatives to traditional raw materials, avoiding the depletion/consumption of natural resources. Tenova Metals has always invested in green technologies, with the aim to allow its clients to minimize their environmental footprint without affecting their production rate.
Mining Industry

Tenova TAKRAF is an integration solutions provider to the global mining, bulk material handling, minerals processing and beneficiation industries, offering innovative technological solutions as well as process and commodity knowledge along the industry value chains. Its unique range of air environmental and specialized equipment allows the company to offer its solutions in an effective and sustainable manner that respects the environment in which it operates. With the integration of the well-known Tenova DELKOR and Tenova Advanced Technologies (formerly Bateman Advanced Technologies) brand of products into TAKRAF as specialized product lines, the company’s portfolio for the minerals processing and beneficiation sectors has been considerably enhanced.
**Mining Systems and Equipment**
Mining companies around the world rely on the quality, efficiency and reliability of Tenova TAKRAF systems and equipment for their excavation, crushing, conveying and dumping requirements; as well as the various auxiliary equipment provided for all their operations.

**Bulk Material Handling**
Tenova TAKRAF is a leading provider of bulk material handling solutions across a broad variety of commodities in minerals, aggregates, fertilizers and grain. The company's solutions also cover all forms of stockyard and/or disposal facilities (including dry stacking of tailings), loading and/or unloading equipment, all forms of conveying, various “in-plant” equipment and port facilities.

**Minerals Processing Equipment**
With the integration of established brands such as Tenova DELKOR (solid/liquid separation and wet processing specialists) and Tenova Advanced Technologies (hydrometallurgical process specialists) into TAKRAF as specialized product lines, the group’s portfolio for the minerals processing and beneficiation sectors has been considerably enhanced.

**Air Environmental and Specialized Equipment**
As environmental and social issues become ever more important, Tenova's unique range of air environmental and specialized equipment allows to best serve the needs of its clients and the communities in which they operate with sustainable and effective solutions. Tenova is an acknowledged specialist in the design and supply of such equipment and boast extensive references across all product categories, geographies and most industry sectors too.

**Services and Components**
Tenova TAKRAF provides the full suite of services, ranging from project development and feasibility studies, engineering and design, fabrication and component supply, supervision and commissioning to spare parts and aftermarket support, inspection, maintenance and wear part management; as well as debottlenecking, refurbishments and relocation assistance.

www.tenova.com
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 a constant involvement with the communities where it operates.
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. The company currently employs 6,500 people, including 1,000 employees and 5,500 contractors.

**Exploration and Production**

Tecpetrol’s currently level of production stands at approximately 150,000 barrels of oil equivalent per day (boe/d), with more than 750 productive wells.

In the past years, Tecpetrol has focused on the development of unconventional resources, applying hydraulic fracturing in horizontal wells. The company has been making important investments to achieve efficient industrial operations and fast-track production. Thanks to these efforts, Tecpetrol was able to increase in only 18 months the production level from zero to 600 million cubic feet of gas per day in the Vaca Muerta field.
In addition, 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.

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

The company currently occupies about 200,000-acres of unconventional fields.

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, which went from almost zero at the beginning to more than 600 million cubic feet/day by the end of 2018. This amount represents 13% of Argentina’s gas production. 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 the 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 9 thousand barrels (bbl) of oil per day and 9 million cubic feet (scf) of gas per day. Tecpetrol holds a majority share of the block. El Tordillo has currently over 400 wells in production and 100 injection wells.

Tecpetrol holds a 23% share and is the operator of the Aguaragüe block in northwest Argentina. The production stands at 60 million cubic feet of gas per day and 2 thousand bbl of oil per day.

In Colombia, Tecpetrol began the development of the CPO-13 block, which produces 1.5 thousand bbl of oil per day. This oil reservoir was discovered in the past years.

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. Tecpetrol also operates the Bermejo Block, located in the Oriental basin.

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 120 productive wells with a total output of approximately 70 million cubic feet of natural gas per day and 0.5 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 1,500 million cubic feet of gas per day and 75 thousand bbl of oil per day; a 20% non-operating interest in the Ipátí and Aquío blocks of the Tarija basin, Bolivia; 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. In Mexico, Tecpetrol is responsible for the maintenance of the Sistema 3 gas pipelines system of Pemex.

Tecpetrol holds a 23.1% share and is the co-operator, together with Compañía General de Combustibles (CGC), of TGN. This company operates two main pipelines (6,000 kms) 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 out of the nine local gas distribution companies. TGN also provides the link to major exporting gas 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.

Tecpetrol supplies maintenance services to the Sistema 3 gas pipeline system of Pemex Logistics. Sistema 3 is located in the Mexican states of Tabasco and Chiapas. The project includes 400 Km of pipelines through 13 rights of way.

**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)
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' management model joins 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 the hospitals and both clients and suppliers. The main features of this model are the complete control of open, on-the-spot analysis of costs; 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 at present includes the Istituto Clinico Humanitas near Milan and other 8 hospitals: Humanitas San Pio X in the center of Milan, Humanitas Gavazzeni and
Clinica Castelli in Bergamo, Humanitas Mater Domini in Castellanza (Varese); Humanitas Cellini, Humanitas Gradenigo and Clinica Fornaca di Sessant in Turin, Humanitas Centro Catanese di Oncologia in Catania (Sicily).
To reach out to citizens, it establishes Humanitas Medical Care centers outside its hospitals, which provide diagnostic and preventive services in places that are easy to reach, and which are also supported by smart technologies.

**Milan**

**Istituto Clinico Humanitas** 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.

The hospital has 747 beds, 43 operating theatres, and more than 200 outpatient clinics. Being the first Italian hospital quality certified by the Joint Commission International, the Istituto Clinico Humanitas is also accredited by the National Health-Care System and is considered one of the technologically most-advanced hospitals in Europe.

Among its most significant examples of innovation and cutting-edge technology are last generation linear accelerators (Edge and 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, five Nuclear Magnetic Resonance stations, including a 3 Tesla and an openbore NMR, and two PET-CT.

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, from cancer to rheumatoid arthritis.

More than 200 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 over 600 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.
Humanitas’ scientific production has continued to increase in quality, as indicated by bibliometric indexes: over 5,000 Impact Factor points in 2018 (ranking among the first IRCCS institutions in scientific output), with particular focus on the immune-degenerative area.

In the Excellence Ranking published every year by the Scimago Research Group after analyzing the publications of more than 5,000 research centers, Humanitas ranks within the top 10% in the world (315th among 4,849 institutes) and in Western Europe (141st among 1,535 institutes) and within the top 5% in Italy (8th among 163 institutes).

In 2014, Humanitas University was born. It is a private non-profit institution dedicated to the medical sciences. It is interconnected with the Humanitas hospital, where the clerkship activities take place. Courses are based on more than 10 years of experience in academic teaching, as well as on an active learning approach.

In 2017, the new campus was inaugurated, hosting up to 1,200 students. Humanitas University Campus is built just a few steps away from the Hospital: 4 buildings extending over 20,000 square metres, dedicated to teaching activities and student services. These include areas for research and university activities, study and sport zones as well as halls of residence for students and researchers. These spaces, immersed in the green surroundings of the Rural Park of South Milan, have been designed with the latest technological standards and with the concept of environmental well-being.

The Campus also has a 1,000-square-meter state-of-the-art Simulation Centre for practical training activities, equipped with a microscope room, emergency and operating rooms, ambulatories, rooms for clinical and surgical skills, supported by multimedia control rooms.

In September 2018, Mario Luzzatto Student House (residences for students) was inaugurated: 240 beds in single or double rooms and many communal areas like study rooms, a gym, a recreation space, a library, a terrace, a garden, a cafeteria and a laundry room.

Mario Luzzatto Student House also offers training and study-support services, including language courses and recreational activities.

The Humanitas University faculty is made up of doctors and researchers of international reputation, with visiting faculty that has included Nobel Prize winners for Medicine (Rolf Zinkernagel, Jules Hoffmann, Erwin Neher). The University aims to prepare its students for any career path, be it clinical practice or research, in Italy or abroad.
Humanitas University offers three degree courses:
- International Degree in Medicine and Surgery, in English (6-year single cycle)
- Degree in Nursing, in Italian (3 years)
- Degree in Physiotherapy, in Italian (3 years)

In terms of post-graduate training, the University has received accreditation from 17 residency programs in the important specialties following a medical degree, and has activated an advanced course in Epidemiology for Clinical Research, Master’s Degrees in Biliopancreatic Endoscopy, in Laser Urology Surgery and in Osteopathy, as well as a PhD in Molecular and Experimental Medicine.

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 162 beds certified by the National Health Service, 8 Operating Rooms, 2 Delivery Rooms, 46 outpatient clinics, 2 endoscopy rooms, and radiotherapy rooms, the hospital offers outpatient consultation, inpatient admissions, Day Hospital, and Day Surgery health care.

The Maternity Ward, with approximately 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, such as neonatal osteopathy and babygreen outpatient service that offers nutritional advice during pregnancy, breastfeeding, and weaning periods, available also for vegan and vegetarian mothers. 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. Orthopedic surgery, which offers innovative and minimally invasive therapies; and specialized surgery for treating disorders such as snoring or obesity, are among its strengths.

**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.

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, column surgery hands and upper limb surgery, diabetic foot, general medicine, senology, radiotherapy, dialysis, nuclear medicine and obesity, in addition
to a wide-ranging outpatient activities. Humanitas Gavazzeni has 9 operating theaters, intensive care units and a coronary unit. The hospital also has a Department of Imaging Diagnostics with RMN and TC and 3 nuclear accelerators in radiotherapy. Humanitas Gavazzeni is equipped with a modern emergency and admission department (DEA) and has 310 beds.

Entered the group in January 2018, Humanitas Castelli is well inserted in the urban and social context of Bergamo thanks to its strategic position near the city center. Since its beginning in 1933, when it mostly devoted to internships and obstetric-gynecological activities, various specialties have been replaced and added. Today, they include Ophthalmology, General Surgery, General Medicine with subacute care unit, Proctology, Orthopedics, Otorhinolaryngology, as well as outpatient activities. Recently renovated, the structure is equipped with 4 operating rooms, one dedicated to ophthalmology, and 106 inpatient places. Its specificities include enhanced diagnostics, TC e RMN, with the latest technology.

**Turin**

**Humanitas Cellini** is a multispecialist hospital well known for its medical and surgical activity with 120 inpatient beds. Humanitas Cellini has been
HUMANITAS

accredited by the National Health Service since 2003 and its main fields of surgical and medical specializations are orthopedics, vascular surgery and urology. Cellini has also an Outpatient Diagnostic Center that covers all the medical specialties.

**Humanitas Gradenigo** is a multispecialist hospital certified by the National Health Service for outpatient care and hospitalization, a benchmark in Oncology and Emergency-Urgency services in Piedmont. It has 180 beds, 6 operating rooms, and an Emergency Service with 43,000 admissions per year. The hospital is part of the Piedmont and Val d’Aosta Oncological Network, and it is a member of the group of hospitals treating rare tumors in Italy.

**Clinica Fornaca di Sessant** is a well-known private, multi-specialist hospital located in Turin with cutting-edge technologies and high standard of comfort and care. It has six operating rooms, an intensive care unit, day-hospital, a special ward devoted to the Complex Outpatient Surgery and Digestive Endoscopy services and 92 in-patient beds that allow treatment of 5,000 patients per year. Fornaca has also an Outpatient Diagnostic Center that covers all the medical specialties for about 50,000 outpatient visits and exams per year.

Humanitas has cutting-edge surgical robotics system.
Castellanza

**Humanitas Mater Domini** is a hospital with numerous specialties located in Castellanza (Varese, Italy). Since 2007 it is part of the Humanitas Group, sharing its excellence of health services certified by Joint Commission International, as well as the deep local roots and the strong interaction with the top scientific community.

The hospital has a 160-bed ward, six in-patient units (four accredited by the Italian National Health Service and two in private practice), eight operating theaters, interventional cardiology labs (hemodynamic and electrophysiology), diagnosis and care services (diagnostic imaging, digestive endoscopy and analysis laboratory), outpatient area, emergency room and dental center.

In 2011 Humanitas Mater Domini was the first healthcare facility in the district of Varese to obtain the OHSAS 18001:2001 certification (management system for workplace’s safety and health).
The quality accreditation from the Joint Commission International, first achieved by the hospital in 2007, was reconfirmed in July 2016. In 2016, its healthcare service was integrated with “Humanitas Medical Care” located in Arese, that offers specialized visits and exams, diagnostic tests (i.e. echography, mammography, orthopantomography), a dental practice and a sampling center. In 2017, Humanitas Mater Domini opened a new sampling center in Busto Arsizio, which has recently expanded its offer, providing now visits and exams of many different specialties. Recently a historical diagnostic center in Varese has also been acquired. The Humanitas Medical Care network includes the decennial medical center located in Lainate too.

**Catania**

**Centro Catanese di Oncologia** (now Humanitas Oncology Center of Catania), founded in 1958, is a private facility located in the east of Sicily and also accredited by the National Health Service. Its Operating Units are medical oncology, surgery and radiotherapy specialized in the treatment of abdominal, gynecologic, breast and thyroid diseases.

The Center is endowed with the most modern diagnostic and therapeutic equipment, has 4 operating theaters and 4 intensive treatment rooms.

In 2014, the Center obtained two very important international accreditations. The Joint Commission International certified its high standards and parameters about quality and safety; and the Breast Centre Certification, its paths of diagnosis and treatment related to Breast Cancer in compliance with the guidelines of Eusoma, the European Society of Breast Cancer Specialists. In 2017, the Center obtained the accreditation for the second time.

www.humanitas.it
www.hunimed.eu
www.sanpiox.net
www.humanitasgavazzeni.it
www.humanitascastelli.it
www.humanitascellini.it
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