Sustainability

We are guiding the evolution of steel tubes to secure the best future for the industry and for generations to come. We understand the world around us...tubes and related...in which we operate.

Quality

ArcelorMittal Tubular Products Division holds approvals, certificates and licences from major national and international official authorities, customers and third-party organizations. By working closely with our customers, we ensure that our pipes and tubes meet all customer specific requirements. Sharing best practice and technical expertise across our business enables us to be on top of the latest market developments and offer competitive solutions to our customers.

Leadership

We are visionary thinkers, creating opportunities every day. This entrepreneurial spirit brought us to the forefront of the steel pipes and tubes industry. We are concentrating on doing what we do best: combining the strengths of our plants around the world and leveraging our presence in individual markets, creating new opportunities worldwide and expanding our product base to fulfill our customers’ demands. In this way the Tubular Products Division of ArcelorMittal has rapidly established itself as a major player in the industry. Together we are creating a truly modern, efficient and technologically advanced pipes and tubes business.

Tubular Products

The Tubular Products Division of ArcelorMittal is one of the world’s largest and most diversified producers of pipes and tubes, servicing markets around the world from 24 different operating locations in 12 different countries. We produce and market virtually the full spectrum of tubular products in an unparalleled range of sizes. With our seamless, spiral welded and longitudinal welded small and large outside diameter products, our company is active in the Energy, Mechanical and Automotive markets.

ArcelorMittal operates pipes and tubes production facilities in four continents: Europe, Asia, Africa, North and South America, with an annual manufacturing capacity in excess of 52 billion ton-miles over 5,500 employees worldwide. We are currently developing our “state of the art” seamless pipe mill in South Africa. Our goal is to provide the leadership that will transform tomorrow’s steel tubes industry.

We combine our integrated industrial sites, global research & development centers and our international sales network to create our customers’ best solutions, fully leveraging our capabilities in the most challenging conditions.
Main Applications

- Structural applications
- Hydraulic cylinders
- Mineral mining equipment
- Heavy construction equipment
- Scaffolding and fencing
- Farm machinery equipment
- Storage systems
- Furniture

Worldwide Locations

- Kazakhstan, Aktau
- Saudi Arabia, Jubail
- Algeria, Annaba
- South Africa, Vereeniging

Energy

ArcelorMittal Tubular Products is a leading manufacturer and marketer of welded and cold-drawn mechanical steel tubing and tubular shapes, fabricated parts, and precision components for the automotive industry. As leaders in the field, we are committed to our philosophy of "Manufacturing Excellence." When you partner with us, we become part of your team, working with your designers and engineers to create innovative parts that fit your specific needs. Our production capabilities for the automotive industry include a wide range of longitudinal welded and seamless tubes with precise dimensions in a cold-drawing or cold-sizing process as well as a complete range of components.

Main Applications

- Suspension systems
- Crash management components
- Seat housing assembly systems
- Welded precision tubes for manufacturing of seats, instrument panels
- Complex hydroformed and other high-value added automotive applications

Mechanical

ArcelorMittal has a long tradition as supplier of high-quality products to the mechanical tube market, with continued focus on customer service.

The Energy segment produces and markets steel tubular applications to serve the full spectrum of the energy industry as well as certain other industrial applications. As demand for the world's oil & gas resources increases, ArcelorMittal pipes play an essential role in the development of new energy projects, meeting the stringent requirements for the most demanding applications around the world.

Main Applications

- Oil & gas upstream activities
- Refineries and processing units
- Power generation
- Construction and civil engineering

Automotive

ArcelorMittal Tubular Products is a leading manufacturer and marketer of welded and cold-drawn mechanical steel tubing and tubular shapes, fabricated parts, and precision components for the automotive industry. As leaders in the field, we are committed to our philosophy of "Manufacturing Excellence." When you partner with us, we become part of your team, working with your designers and engineers to create innovative parts that fit your specific needs. Our production capabilities for the automotive industry include a wide range of longitudinal welded and seamless tubes with precise dimensions in a cold-drawing or cold-sizing process as well as a complete range of components.

Main Applications

- Oil & gas upstream activities
- Refineries and processing units
- Power generation
- Construction and civil engineering

Automotive Main Applications

- Suspension systems
- Crash management components
- Seat housing assembly systems
- Welded precision tubes for manufacturing of seats, instrument panels
- Complex hydroformed and other high-value added automotive applications
Sharing best practices and technical expertise across our business enables us to be on the top of the latest market developments and offer competitive solutions to our customers.
About Us

Our Customers

We supply our customers with innovative products, modules and systems and are partners in the product development process. In this partnership they profit from our flexibility and our quick decision making. The integration of new functions into products which provide genuine added value for our customers dominates our efforts. Co-operative partnerships are for us a matter of course.

To optimize our product we make full use of all technical and economic resources right through the entire process chain. We are committed to our philosophy of operational excellence. This means meeting customer specifications and supplying our products on time. Day to day, the plant’s commitment to meeting or exceeding customer satisfaction relies on a strong global Quality Management System based on ISO 9001 and ISO TS 16949 standards. Our commitment to quality also extends to the factory environment and the requirements for ISO 14001 certification.

Our Facilities

France – Chevillon

The Chevillon plant is located in the north-east of France in the Marne valley and manufactures ranges from 10.0mm to 55.0mm outside diameter and from 0.6mm to 3.0mm wall thickness. In addition to the standard low carbon steel grades, the factory also produces high-strength low-alloy (HSLA) and Dual Phase steels.

Production is aimed predominantly at the automotive market. Welded precision tube is used in the manufacturing of seats, instrument panel beams, crash components, filler pipes, engine cradles, reinforcement components and shock absorbers.

France – Hautmont

Located in the North of France close to Maubeuge, the ArcelorMittal Hautmont, Tubular Products factory (formerly Vallourec Précision Soudage) was built at the beginning of the 20th century. Our production of cold sized welded precision tubes benefits from decades of experience on this site. The tube manufactured ranges from 20.0mm to 130.0mm outside diameter and from 0.9mm to 6.0mm wall thickness. In addition to the standard low carbon steel grades, the factory produces high-strength low-alloy (HSLA), Dual Phase and (Trip) AHSS grades. The factory produces the lighter and heavier wall-to-diameter ratios. Today, the plant is dedicated to meeting the demand for tubes from the automotive industry.

Our tubes are used in numerous functions such as suspension systems, body in white, engine environment and driveline systems.

France – Vitry le François

The Vitry le François facility is a major supplier of automotive tubular chassis parts, including tubular rear cross parts for twist beam axles, crash management parts, drive shaft and components, as well as cartridges for fire extinguishers.

The core business is to design, develop and produce components which meet the quality standards required by the automotive industry.

Thanks to the combination of expertise in steel, tubes, cold forming, and product and process simulation based on the behaviour of real tubular materials, Vitry has been successful in designing innovative and cost efficient tubular products in close co-operation with its customers.

Czech Republic – Karviná

The Karviná operations have a long tradition, producing longitudinal welded products for the mechanical industry since 1929. Located in the eastern Czech province of Moravia, it is convenient for distribution in the Czech Republic, Slovakia, Poland and Hungary, as well as Northern and Western Europe.

Our facilities include tube HF-welding mills, annealing furnaces, cold-drawing benches, and machines for cutting and chamfering. For tube-making, we make use of a hot-stretched reduction process, which gives the product homogenous properties. We also make tubular products on cold sizing lines within narrow tolerances.
### Welded Cold Sized Tubes

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Outside diameter</th>
<th>Wall thickness</th>
<th>Grades/Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welded Cold Sized Tubes</td>
<td>EN 10305-3, EN 10305-5, ASTM 513, JIS</td>
<td>10.0mm - 135.0mm</td>
<td>0.8mm - 6.0mm</td>
<td>Customer Specified</td>
</tr>
<tr>
<td>Cold Drawn Welded Tubes</td>
<td>EN 10305-2</td>
<td>10.0mm - 115.0mm</td>
<td>0.6mm - 4.0mm</td>
<td>Customer Specified</td>
</tr>
<tr>
<td>Cold Formed Tubular Components</td>
<td>According to customer specification</td>
<td>Current production tubular components from 20.0mm to 130.0mm</td>
<td>Current production tubular components from 1.2mm to 7mm</td>
<td>From low carbon to high yield strength</td>
</tr>
</tbody>
</table>

Special cut to length available based on specific needs.

Additional grades available based on customer inquiries.

Production program by mill available in http://www.arcelormittal.com/tubular
**Chevillon – France**
- Located in the north-east of France in the Marne Valley
- Main applications for the automotive market

**Hautmont – France**
- Formerly Vallourec Precision Soudage
- Cold sized welded precision tubes

**Vitry – France**
- Supplier of automotive tubular chassis parts
- Design, develop and produce customer specific requirements

**Karviná – Czech Republic**
- Formerly known as Jäkl Karviná
- Produces longitudinal welded products
Tubular Products Division
Automotive Europe

Luxembourg
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L-2930 Luxembourg
T +352 4792 1
F +352 4792 3187
E tubularproducts@arcelormittal.com

www.arcelormittal.com/tubular
‘Safe Sustainable Steel’ sums up everything we are trying to achieve at ArcelorMittal. We want our business to be sustainable in every sense of the word – a business that is both profitable and responsible. We do this by keeping our people safe, and becoming ever more efficient at providing the steel the world needs for construction, transport, manufacturing, and all other aspects of everyday life.
About Us

Our Products
The mechanical industry is our biggest single market for our products and to meet our customer needs a comprehensive range of tubular products is available.

Our expertise centers on welded, hollow sections in a wide range diameters and steel grades combined with finishings such as plain, galvanised or colour coating. Performance in the engineering applications is guaranteed through our excellent tube making process. This quality makes the tubes ideal for use in various applications.

Our Customers
As a key partner for distribution channels, the mechanical divisions have a long tradition of quality and excellence by setting industry standards for product quality, on-time deliveries and customer service. The mechanical tubing is manufactured to meet your specific application requirements and possible finishing operations.

Applications include:
- Structural applications
- Heavy construction equipment
- Scaffolding and fencing
- Storage systems
- Hydraulic cylinders
- Agricultural machinery
- Micro piling
- Gas connections and distribution networks
- Industrial fluid installations (sanitary water installations, sprinkler systems)
- Air-conditioning installations

Our Facilities
Karviná Czech Republic (formerly known as Jäckl Karviná) has a long tradition, producing longitudinal welded products for the mechanical industry since 1929. Located in the Eastern Czech province of Moravia, it is well positioned for distribution in the Czech Republic, Slovakia and Poland, as well as Northern and Western Europe. Our annual capacity is 200,000 tons.

Our facility in Karkow Poland produces longitudinal welded products for mechanical purposes, such as buildings, water distribution and scaffolding. Our location in the southern province of Malopolski ensures reliable distribution throughout Poland, Czech Republic, Slovakia, Germany, Denmark, Baltic States and Western Europe. Our annual capacity is 160,000 tons.

Established in 1963, ArcelorMittal Iasi (formerly Tepro) is the largest producer of longitudinal welded steel tubes in Romania and the nation’s market leader for mechanical tubes. From our location in Iasi, in the East of the country, we can easily distribute products throughout Romania, most of the neighbouring countries, even to Northern and Western Europe. Our annual production capacity is 180,000 tons.
Product Range
Mechanical Europe

**Cold Formed Welded Pipes**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Outside diameter</th>
<th>Wall thickness</th>
<th>Grades/Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 10219</td>
<td>Round 21.3 - 219.1</td>
<td>1.5 - 10 mm</td>
<td>S235JR, S275JOH, S275J2H, S355J0H, S355J2H, S460</td>
</tr>
<tr>
<td></td>
<td>Square 20 x 20 - 150x150</td>
<td>1.5 - 10 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rectangle 30 x 20 - 200x100</td>
<td>1.5 - 10 mm</td>
<td></td>
</tr>
<tr>
<td>EN 10255</td>
<td>60.3 - 168.3</td>
<td>1.8 - 5.4 mm</td>
<td>S195T</td>
</tr>
<tr>
<td>EN 10217-1</td>
<td>60.3 - 219.1</td>
<td>2 - 10 mm</td>
<td>P235TR1, P235TR2</td>
</tr>
<tr>
<td>EN 10305-3</td>
<td>8.0 - 70.0</td>
<td>0.5 - 3.2 mm</td>
<td>E155, E195, E235, E275, E355 +CR1, +N E190, E220, E260, E320, E370, E420 +CR2</td>
</tr>
<tr>
<td>EN 10305-5</td>
<td>10x10 - 100x100</td>
<td>0.5 - 4.0 mm</td>
<td>E155, E195, E235, E275, E355 +CR1, +N, E190, E220, E260, E320, E370, E420 +CR2</td>
</tr>
</tbody>
</table>

**Hot Formed Welded Pipes**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Outside diameter</th>
<th>Wall thickness</th>
<th>Grades/Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 10210</td>
<td>Round 17.2 - 168.3</td>
<td>2 - 8 mm</td>
<td>S235JR, S275JOH, S275J2H, S355JOH, S355J2H</td>
</tr>
<tr>
<td></td>
<td>Square 50x50 - 120x120</td>
<td>2 - 8 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rectangle 80x40 - 140x80</td>
<td>2 - 8 mm</td>
<td></td>
</tr>
<tr>
<td>EN 10255</td>
<td>13.5 - 168.3</td>
<td>1.8 - 5.4 mm</td>
<td>S195T</td>
</tr>
<tr>
<td>EN 10217-1,2</td>
<td>17.2 - 168.3</td>
<td>1.8 - 8 mm</td>
<td>P195TR1, P195TR2, P235TR1, P235TR2, P235TR1, P235TR2, P235GH, P265GH</td>
</tr>
<tr>
<td>EN 10205-1,2</td>
<td>33.7 - 168.3</td>
<td>2.6 - 6.3 mm</td>
<td>L210GA, L235GA, L245GA, L290GA, L360GA, L210NB, L235NB, L245NB, L290NB, L360NB</td>
</tr>
<tr>
<td>EN 10024</td>
<td>17.2 - 168.3</td>
<td>2 - 8 mm</td>
<td>L235</td>
</tr>
<tr>
<td>ASTM A53/A53M-04a</td>
<td>17.2 - 168.3</td>
<td>2 - 6.3 mm</td>
<td>A, B</td>
</tr>
</tbody>
</table>

Certified: PED; Surface: Black, Galvanized, Color-coated; Ends: Threads and Sockets, Plain, Grooved

**Cold Drawn Welded Pipes**

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Outside diameter</th>
<th>Wall thickness</th>
<th>Grades/Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold drawn tubes and hollow</td>
<td>EN 10305-2</td>
<td>12.0 - 120.0</td>
<td>1.0 - 5.0 mm</td>
<td>E155, E195, E235, E275, E355 +C, +N</td>
</tr>
<tr>
<td>sections</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cold drawn tubes and hollow</td>
<td>EN 10305-5</td>
<td>10x10 - 100x100</td>
<td>1.0 - 5.0 mm</td>
<td>E155, E195, E235, E275, E355</td>
</tr>
<tr>
<td>sections</td>
<td></td>
<td>18x12 - 140x85</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cold formed open sections</td>
<td>EN 10162</td>
<td>max. 530</td>
<td>1.0 - 6.0 mm</td>
<td>EN 10025-2, EN 10111, EN 10130, EN 10346</td>
</tr>
</tbody>
</table>

Production program by mill available in http://www.arcelormittal.com/tubular
Iasi – Romania
- Largest producer of longitudinal welded steel pipes in Romania
- Annual capacity 180,000 tons

Kraków, Poland
- Located in the southern province of Malopolski
- Annual capacity of 160,000 tons

Karviná – Czech Republic
- Formerly known as Jákl Karviná
- Annual capacity of 200,000 tons

Iasi – Romania
- Largest producer of longitudinal welded steel pipes in Romania
- Annual capacity 180,000 tons
‘Safe Sustainable Steel’ sums up everything we are trying to achieve at ArcelorMittal. We want our business to be sustainable in every sense of the word – a business that is both profitable and responsible. We do this by keeping our people safe, and becoming ever more efficient at providing the steel the world needs for construction, transport, manufacturing, and all other aspects of everyday life.
About Us

Our Customers

For our customers we are not only a tube manufacturer, but also a development partner and supplier offering excellence in delivery logistics.

We are committed to our philosophy of operational excellence. This means meeting customer specifications and supplying products on time. Day to day, the plants’ commitments to meeting or exceeding customer satisfaction rely on a strong global Quality Management System based on ISO 9001 and ISO TS 16949 standards.

Our commitment to quality also extends to the factory environment and the requirements for ISO 14001 and 18001 certifications. Alongside the quality of the products delivered, the optimum quality of service is met by paying special attention to all aspects of logistics: co-ordination with research and development teams working on the product, lean manufacturing and flexible shipping framework.

Our Facilities

To meet whatever our customers need, a comprehensive range of tubular products is available in our North American facilities. Welded or seamless, large or small diameter, in different steel grades, our excellent tube making process ensures the performance of our steel tubes in both mechanical and automotive applications. This quality makes the tubes ideal for use in a variety of applications.

Apart from standardized products made of welded and seamless steel tubes, we offer solutions matching the specific needs of our customers, supplemented by an extensive range of services (e.g. cutting, end-finishing, heat treating and steel slitting).

There are DOM or cold drawing capabilities available in Canada and the US for industrial and construction equipment, hydraulic cylinders, agricultural equipment and mineral mining equipment. DOM tubing is manufactured in diameters from 0.750 inch to 12.0 inch.

The US based Shelby facility cold draws seamless precision tubes according to ASTM standards. The tubes are supplied in both hot-finished and cold-drawn form in sizes from 1.375 inch to 7.75 inch OD for the fluid power, construction equipment, automotive, energy and farm machinery markets. This material is produced to meet the individual requirements of each order, with the capability to heat treat the material in-house at the facility as well.

As a leader in the supply of tubing for complex hydro formed and other high-value added automotive applications, we can satisfy the most demanding applications in the automotive industry. A wide range of longitudinally welded and seamless tubes are available to the automotive industry. The tubes can be given precise dimensions in a cold drawing or cold sizing process. In the cold drawn range both welded and seamless tubes are available. The surface is suitable for chromium plating, galvanizing, and color coating. These tubular products are available as round tubes or as profiles (e.g. square, rectangular, oval or hexagonal).

Hollow structural sections for structural engineering use and fencing are produced against ASTM standards. Their outside diameter ranges from 2.0 inch to 7.50 inch.

Our plant in Monterrey, Mexico offers cold sized welded precision tubes in a range from 0.5 inch to 6.626 inch for automotive, furniture, fixtures, agricultural, construction equipment and distribution market applications.

Tubular Products also promotes the use of a bold variable wall technology through its patented process called MultiWall T3™. This technology can meet design targets by locally thickening the wall, thereby strengthening the tube where required, while maintaining the mechanical properties. Innovative engineering and product development enables the introduction of product improvements that help our customers differentiate themselves.
## Welded Mechanical Tubes

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Outside diameter</th>
<th>Wall thickness</th>
<th>Grades/Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welded Cold Sided Tubes</td>
<td>ASTM A513, SA 178/214</td>
<td>0.472&quot; - 12.5&quot;</td>
<td>0.022&quot; - 0.685&quot;</td>
<td>Carbon base grades 1006 - 1050, 10821, 15821, 90X, 65W, ST52.3 (E355), Alloy grades 4118/4130/8620, HSLA, AHSS</td>
</tr>
<tr>
<td>Cold Drawn Welded Tubes</td>
<td>ASTM A513</td>
<td>0.750&quot; - 12.0&quot;</td>
<td>0.065&quot; - 0.685&quot;</td>
<td>Carbon base grades 1008 - 1050, ST52.3 or E355. Alloy grades 4118/4130/8620.</td>
</tr>
<tr>
<td>Hollow Structural Sections</td>
<td>ASTM A500 Grade B/C CSA 640 - 21-50W</td>
<td>2x2&quot; - 8x4&quot;</td>
<td>0.125&quot; - 0.375&quot;</td>
<td>Customer Specified</td>
</tr>
<tr>
<td>Cold Formed Tubular Components</td>
<td>Customer Specific</td>
<td>Customer specific</td>
<td>Customer specific</td>
<td>From low carbon to high yield strength</td>
</tr>
</tbody>
</table>

Additional grades available based on customer inquires.

## Seamless Mechanical Tubes

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Outside diameter</th>
<th>Wall thickness</th>
<th>Grades/Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot Finish Seamless Tubes</td>
<td>ASTM A519</td>
<td>2.188&quot; - 6.75&quot;</td>
<td>0.25&quot; - 1.75&quot;</td>
<td>Carbon base grades 1008 - 1050. Alloy full range of 41xx/43xx &amp; 86xx series. Others available by inquiry</td>
</tr>
<tr>
<td>Cold Drawn Seamless Tubes</td>
<td>ASTM A519</td>
<td>1.375&quot; - 7.75&quot;</td>
<td>0.171&quot; - 1.687&quot;</td>
<td>Carbon base grades 1008 - 1050. Alloy full range of 41xx/43xx &amp; 86xx series. Others available by inquiry</td>
</tr>
</tbody>
</table>

Additional grades available based on customer inquires.

Production program by mill available in [http://www.arcelormittal.com/tubular](http://www.arcelormittal.com/tubular)
Our Facilities
North America

Brampton, Ontario
- Supplier of small diameter round, square rectangle and elliptical welded tubes
- Multiple tube mills with a variety of cutting and end finishing capabilities
- Able to supply mechanical tube with different coatings such as galvanized, galvanneal, or zinc nickel

Woodstock, Ontario
- Manufactures welded tubes
- Complex precision tubing
- Over 100 years old with multiple tube mills and cutting systems
- Patented MultiWall T3 process for variable wall technology

Hamilton, Ontario
- North America leading supplier of tubing for complex hydroformed and other high value added automotive applications
- Highly automated with high level of dimensional control and optimal formability

Shelby, Ohio
- Produces welded and seamless precision tubes in a wide spectrum of carbon and alloy grades
- One of the most diversified manufacturers of tube in North America with one of the most extensive size ranges in the world
- Cold draw capabilities according to ASTM standards, with specialized TuffDOM product available for the most demanding applications
- Offers quench and temper heat treatment for specialized mechanical tubing products

London, Ontario
- Automotive Components facility
- Integrated transfer lines that include operations such as welding, machining and error proofing

Marion, Ohio
- Manufactures as-welded mechanical tubing, with high strength capabilities, difficult D/T ratios and a wide range of cutting capabilities with close tolerances
- ISO9001 and TS 16949 certifications
- Variety of steel grades available to serve the boiler tube, conveyor roll, automotive markets and distribution segments

Monterrey, Mexico
- World class manufacturing facility producing tubes for automotive and non-automotive mechanical
- Variety of value-added capabilities available; including cutting, bending, laser-cutting, drilling and slitting services.
Tubular Products Division
Mechanical Automotive
North America

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United States of America
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E shelby.tubularproducts
@arcelormittal.com

www.arcelormittal.com/tubular
Tubular Products Division
Energy
“ArcelorMittal’s success has been built upon a consistent strategy that emphasizes size and scale, vertical integration, product diversity, continuous growth in higher value products and a strong customer focus”  Lakshmi N. Mittal Chairman and CEO
The Tubular Products Division of ArcelorMittal is one of the world’s largest and most diversified producers of steel pipe and tube products, with unparallel steel making assets, global R&D capabilities and an international sales network.

The Energy segment of ArcelorMittal Tubular Products produces and markets steel tubular applications to serve the full spectrum of the energy industry as well as certain other industrial applications.

**Markets served:**
- Oil & gas industry from production through transportation and processing
- Power generation
- Construction and civil engineering

**Annual rolling capacity:**
- Seamless pipes: 1.3 million tons (including Jubail)
- LSAW and spiral pipes: 150 th. tons
- ERW pipes: 400 th. tons

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**About Us**

**Global presence**

We operate an integrated industrial network of pipe manufacturing facilities in Europe, Africa, Asia, North and South America. We run our business at a global scale, leveraging our local presence in key markets, expanding and upgrading our portfolio of tubular applications to serve the energy industry.

**Pipe production facilities:**

**Europe:**
- Ostrava, Czech Republic
- Roman, Romania
- Galati, Romania
- Iasi, Romania

**Africa, Asia and Middle East:**
- Vereeniging, South Africa
- Annaba, Algeria
- Aktau, Kazakhstan
- Jubail, Saudi Arabia (under construction)

**Americas:**
- La Victoria, Venezuela

**Supplier of choice**

Our customers choose ArcelorMittal because of our reliability, global spread and wide range of energy tubular applications.

Our global network of sales offices around the world is organized to serve the main energy markets with dedicated sales teams. Our commercial network is further supported by technical experts in our mills to provide the required technical assistance. Our customers also benefit from ArcelorMittal’s global R&D capabilities which include 15 major research centers in the world, among them, the Ghent R&D center located in Belgium which specially supports the development of energy steel pipes.

**Energy steel pipe R&D capabilities:**
- Metallurgy and corrosion
- Design and simulation
- Joining and welding
- Toughness and testing

**Wide product range**

ArcelorMittal Tubular Products produces a broad portfolio of tubular applications to meet the highest standards among the entire energy value chain.

We produce seamless and ERW OCTG pipes for upstream operations in a broad range of sizes and grades. We also manufacture seamless and ERW line pipes as well as large diameter spiral and longitudinally welded line pipes for hydrocarbons transportation. For refineries, petrochemical and gas processing plants, we produce seamless pipes in carbon and alloy steels.

**Energy steel tube products:**
- Seamless and welded OCTG
- Seamless onshore and offshore line pipes
- Seamless boiler tubes
- Seamless structural tubes
- Large diameter spiral and longitudinally welded line pipes
- ERW line pipes
# Product Range

## Energy

### Seamless Pipes

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Outside diameter</th>
<th>Wall thickness</th>
<th>Grades/Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCTG - Casing &amp; Tubing</td>
<td>API 5CT - Casing</td>
<td>4.5”- 20” (114.3mm - 508mm)</td>
<td>5.21mm - 16.13mm</td>
<td>J/K55, N80, L80, C95, P110, Q125</td>
</tr>
<tr>
<td></td>
<td>API 5CT - Tubing</td>
<td>2.375”- 4.5” (60.3mm - 114.3mm)</td>
<td>4.24mm - 10.92mm</td>
<td>J/K55, N80</td>
</tr>
<tr>
<td>Line pipe - onshore &amp; offshore</td>
<td>API SL, EN, ASTM, ASME</td>
<td>0.5”- 20” (12.7mm - 508mm)</td>
<td>2.8mm - 50mm</td>
<td>A, B, C, X42 - X65</td>
</tr>
<tr>
<td>Boiler tubes</td>
<td>EN, DIN, ASTM, SR</td>
<td>0.84” – 20” (21.3mm – 508mm)</td>
<td>2.3mm - 50mm</td>
<td>Carbon &amp; alloy grades</td>
</tr>
<tr>
<td>Structural tubes</td>
<td>EN, DIN, ASTM, GOST</td>
<td>0.84”- 20” (21.3mm – 508mm)</td>
<td>2.3mm – 50mm</td>
<td>According to norms</td>
</tr>
</tbody>
</table>

### Large Diameter Welded Pipes

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Outside diameter</th>
<th>Wall thickness</th>
<th>Grades/Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spiral Line pipe</td>
<td>API SL, EN, DIN, GOST, CSN</td>
<td>12.75” - 56” (323.9mm - 1422mm)</td>
<td>5mm – 22mm</td>
<td>B, X42 - X70</td>
</tr>
<tr>
<td>LSAW Line pipe</td>
<td>API SL, ASTM, DIN, EN</td>
<td>20” - 52” (508mm – 1321mm)</td>
<td>6.4mm - 20mm</td>
<td>B, X42 - X65</td>
</tr>
</tbody>
</table>

### Special coating and protection for Spiral Welded Pipes

Permanent interior protective coating available based on cement mortar or liquid epoxy coating. Permanent exterior protective coating based on triple-layer extruded polyethylene (3LPE).

## ERW Pipes

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
<th>Outside diameter</th>
<th>Wall thickness</th>
<th>Grades/Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERW OCTG</td>
<td>API 5CT - Casing</td>
<td>4.5” - 10.25” (114.3mm-273.0mm)</td>
<td>5.21mm-11.05mm</td>
<td>H40, J/K55, NB0Q</td>
</tr>
<tr>
<td></td>
<td>API 5CT - Tubing</td>
<td>1.9” – 4.5” (48.3mm-114.3mm)</td>
<td>3.68mm – 7.34mm</td>
<td>H40, J/K55, NB0Q</td>
</tr>
<tr>
<td>ERW Line pipe</td>
<td>API SL</td>
<td>2 3/8” - 12.75” (60.3mm – 323.9mm )</td>
<td>2.1mm – 11.1mm</td>
<td>A, B, X42-X60</td>
</tr>
</tbody>
</table>

Production program by mill available in [http://www.arcelormittal.com/tubular](http://www.arcelormittal.com/tubular)
Annaba – Algeria
- Only producer of seamless pipes in Algeria
- Integrated steel making and rolling facilities
- Annual capacity of 115 th. tons

Houston – USA
- Regional sales office

Unicon, Venezuela
- Leading manufacturer of welded steel pipes in Venezuela
- Annual capacity of 350 th. tons of ERW OCTG and line pipe
Ostrava – Czech Republic
• Formerly known as Nova Hut
• Integrated steel making and rolling facilities with production of seamless and spiral welded pipes
• Annual capacity of 275 th. tons of seamless pipes and 45 th. tons of spiral welded pipes

Roman – Romania
• Formerly known as Petrotub
• Production of seamless pipes with a broad size range from 3" to 20"
• Annual capacity of 330 th. tons

Iasi – Romania
• Largest producer of longitudinal welded steel pipes in Romania
• Production of small diameter longitudinal welded API line pipe
• Annual capacity of 50 th. tons

Galati – Romania
• Integrated steel making and rolling facilities
• Production of longitudinal submerged arc welded (LSAW) pipes for the transportation of hydrocarbons and water
• Annual capacity of 50 th. tons

Jubail – Kingdom of Saudi Arabia
• Joint venture with the Al-Tanmiah Company for the construction of a seamless pipe mill
• Annual projected capacity of 600 th. tons in sizes ranging from 2 3/8" to 16"

Vereeniging – South Africa
• Formerly part of Iscor
• Integrated steel making and rolling facilities for the production of seamless pipes
• Annual capacity of 100 th. tons

Aktau – Kazakhstan
• Production of double submerged arc welded spiral pipes for hydrocarbons and water transportation
• Annual capacity of 60 th. tons
• Coating capabilities include internal epoxy coating and external 3LPE coating

Dubai, United Arab Emirates
• Regional sales office
Tubular Products
Jubail
The drive for operational excellence

With our unmatched scale and diversity, we benefit from a rich storehouse of technical know-how. This is deployed in a systematic manner to get the best out of every plant, every process, every function.
About Us

ArcelorMittal Jubail is a new state of the art seamless tube mill in Saudi Arabia designed and built to serve the fast growing energy producing markets of Saudi Arabia, the Middle East, North Africa and beyond.

The Jubail facility is a joint venture between ArcelorMittal, the global leader in the integrated steel and mining sector, and the Al-Tanmiah Industrial and Commercial Investment Company of Riyadh.

Our Presence

ArcelorMittal Jubail is located in a new industrial city founded by the Royal Commission of Jubail and Yanbu (RCJY) in the Eastern Province of the Kingdom of Saudi Arabia. The location of Jubail 2 Industrial City, adjacent to major land and sea transportation hubs, ensures customers of an efficient supply chain. Since 1975 the RCJY has planned, promoted and developed energy and petrochemical-intensive industrial cities through successful partnerships with investors, employees, communities and other stakeholders.

ArcelorMittal Tubular Products operates an integrated industrial network of pipe manufacturing facilities in Europe, Africa, Asia, North and South America. We run our business on a global scale, leveraging our local presence in key markets and expanding and upgrading our portfolio of tubular applications to serve the energy industry.

Our Scope

With designed capacity of more than 600 th. tons per annum, Jubail is prepared to produce a full range of products suited for the upstream and downstream energy markets, as well as for industrial and process applications. Our goal is to provide the best in class quality, reliability, value and innovation to our local and international customers.

Key facts:
- Investment is estimated at USD 900 million when completed.
- Total area under cover is 130 th. square meters (1.4 million square feet).
- Total employment at full operation is 670.
- Distance to the port of Jubail is 25 km.

Our Commitment

Our promise of providing safe, sustainable steel means more than just operating with the latest technology. Jubail draws upon the brainpower and expertise found within the Kingdom of Saudi Arabia and abroad from the global network of ArcelorMittal.

We endeavour to be a model employer and respected citizen of the Eastern Province by fostering a workplace environment of continuous learning and opportunity, and by empowering our employees with the skills and tools necessary to meet and exceed the requirements of our customers.

We are intensely focused on health, safety and the environment and strive to operate in a sustainable mode that utilizes energy and water in the most efficient manner, and recycles/reuses materials wherever possible.
ArcelorMittal Jubail features the most sophisticated seamless tube-making equipment in the world, beginning with billet re-heat furnace technology from Tenova LOI of Italy, right on through the threading machines manufactured by PMC – Colinet in Belgium and the USA.

But the true heart of Jubail lives in the Premium Quality Finishing (PQF®) technology supplied by SMS Meer of Germany, the global leader in seamless production equipment. The tube-making process begins with the cross-roll piercer transforming the red hot billet into a hollow... passing next into the multi-stand PQF® mill - a process based on the mandrel principle and containing a series of hydraulically adjustable 3-roll stands. Following extraction and reheating, the final tube dimensions are achieved in a 12-stand sizing mill.

Jubail’s production is optimized by SMS Meer’s CARTA® Technology System (Computer Aided Rolling Technology Application) that continually adjusts roll positions and speed settings on the basis of live production data, as well as process and computation models. Further precision is achieved by the robot-controlled LASUS® system that utilizes ultrasonic pulses to continuously monitor wall thicknesses throughout the rolling.

The advanced technology of Jubail ensures our customers of:
• Uniform pipe wall thickness rolled to close tolerance
• Improved pipe straightness and surface quality
• Even temperature distribution during rolling guaranteeing product consistency
• Efficient use of non-renewable energy resources thanks to reduced need for reheating

Comprehensive in-line heat treating, testing, finishing and packing modules enable the smooth flow of materials through the plant ensuring reliable quality and dependable deliveries.

For OCTG customers ArcelorMittal Jubail is proud to offer premium connections from Hunting Energy Services as well as a full range of API connections. OCTG customers also benefit from our on-site finishing of tubing from 2.375 through 4.5 inches including in-plant upsetting capabilities.

The products of Jubail are rigorously and comprehensively tested and inspected prior to shipment. Our on-site, state of the art laboratory and our seasoned technical professionals are backed by the global research and development capabilities of ArcelorMittal, and the combined expertise of all the seamless mills in the Energy group of ArcelorMittal Tubular Products.
Seamless OCTG Casing

Grades
- H40, J55, K55, M65, L80, C95, N80–1, N80–Q, C90, T95, P110, Q125
- High collapse grades also available.

End finishes include: P-plain end, S-short round thread, L-long round thread, B-buttress thread, H-Hunting Energy Services premium connection

<table>
<thead>
<tr>
<th>Outside diameter (in)</th>
<th>Wall thickness (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.500 (114.30mm)</td>
<td>0.205 - 0.337 (5.21 - 8.56mm)</td>
</tr>
<tr>
<td>5.000 (127.00mm)</td>
<td>0.220 - 0.500 (5.59 - 12.70mm)</td>
</tr>
<tr>
<td>5.500 (139.70mm)</td>
<td>0.244 - 0.875 (6.20 - 22.22mm)</td>
</tr>
<tr>
<td>6.625 (168.28mm)</td>
<td>0.288 - 0.475 (7.32 - 12.06mm)</td>
</tr>
<tr>
<td>7.000 (177.80mm)</td>
<td>0.272 - 0.875 (6.91 - 22.22mm)</td>
</tr>
<tr>
<td>7.625 (193.68mm)</td>
<td>0.300 - 0.750 (7.62 - 19.05mm)</td>
</tr>
<tr>
<td>8.625 (219.08mm)</td>
<td>0.264 - 0.557 (6.71 - 14.15mm)</td>
</tr>
<tr>
<td>9.625 (244.48mm)</td>
<td>0.312 - 0.797 (7.92 - 20.24mm)</td>
</tr>
<tr>
<td>10.750 (273.05mm)</td>
<td>0.350 - 0.797 (8.89 - 20.24mm)</td>
</tr>
<tr>
<td>11.750 (298.45mm)</td>
<td>0.333 - 0.582 (8.46 - 14.78mm)</td>
</tr>
<tr>
<td>13.750 (339.72mm)</td>
<td>0.330 - 0.514 (8.38 - 13.06mm)</td>
</tr>
</tbody>
</table>

Seamless OCTG Tubing

Grades
- H40, J55, K55, M65, L80, C95, N80–1, N80–Q, C90, T95, P110, Q125
- H-Hunting Energy Services premium connection. High collapse grades also available.

End finishes include: P-plain end, N-non-upset threaded and coupled, U-external upset threaded and coupled

<table>
<thead>
<tr>
<th>Outside diameter (in)</th>
<th>Wall thickness (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.375 (60.32mm)</td>
<td>0.167 - 0.295 (4.24 - 7.49mm)</td>
</tr>
<tr>
<td>2.875 (73.02mm)</td>
<td>0.217 - 0.440 (5.51 - 11.18mm)</td>
</tr>
<tr>
<td>3.500 (88.90mm)</td>
<td>0.216 - 0.530 (5.49 - 13.46mm)</td>
</tr>
<tr>
<td>4.500 (114.30mm)</td>
<td>0.271 - 0.630 (6.88 - 16.00mm)</td>
</tr>
</tbody>
</table>

Seamless Line Pipe

Grades
- API 5L: B, X42, X46, X52, X60, X65, X70
- EN 10208-2: L245NB, L290NB, L360NB, L360QB, L415QB, L450QB
- ASTM A53*: A, B
- ASTM A106*: A, B, C
- ASTM A333*: 1, 3, 6

* Standard pipe; high and low temperature services

<table>
<thead>
<tr>
<th>NPS</th>
<th>Outside diameter (in)</th>
<th>Wall thickness (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4.500 (114.3mm)</td>
<td>0.203 - 0.674 (5.20 - 17.10mm)</td>
</tr>
<tr>
<td>5</td>
<td>5.563 (141.3mm)</td>
<td>0.219 - 0.750 (5.60 - 19.10mm)</td>
</tr>
<tr>
<td>6</td>
<td>6.625 (168.3mm)</td>
<td>0.203 - 0.875 (5.20 - 22.20mm)</td>
</tr>
<tr>
<td>8</td>
<td>8.625 (219.1mm)</td>
<td>0.250 - 1.000 (6.40 - 25.40mm)</td>
</tr>
<tr>
<td>10</td>
<td>10.750 (273.1mm)</td>
<td>0.344 - 1.250 (8.70 - 31.80mm)</td>
</tr>
<tr>
<td>12</td>
<td>12.750 (323.9mm)</td>
<td>0.330 - 1.250 (8.40 - 31.80mm)</td>
</tr>
<tr>
<td>14</td>
<td>14.000 (355.6mm)</td>
<td>0.344 - 1.250 (8.70 - 31.80mm)</td>
</tr>
<tr>
<td>16</td>
<td>16.000 (406.4mm)</td>
<td>0.500 - 1.250 (12.70 - 31.80mm)</td>
</tr>
</tbody>
</table>

Photo courtesy V. Stragier
Worldwide Locations - Energy

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- Only producer of seamless pipes in Algeria
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