

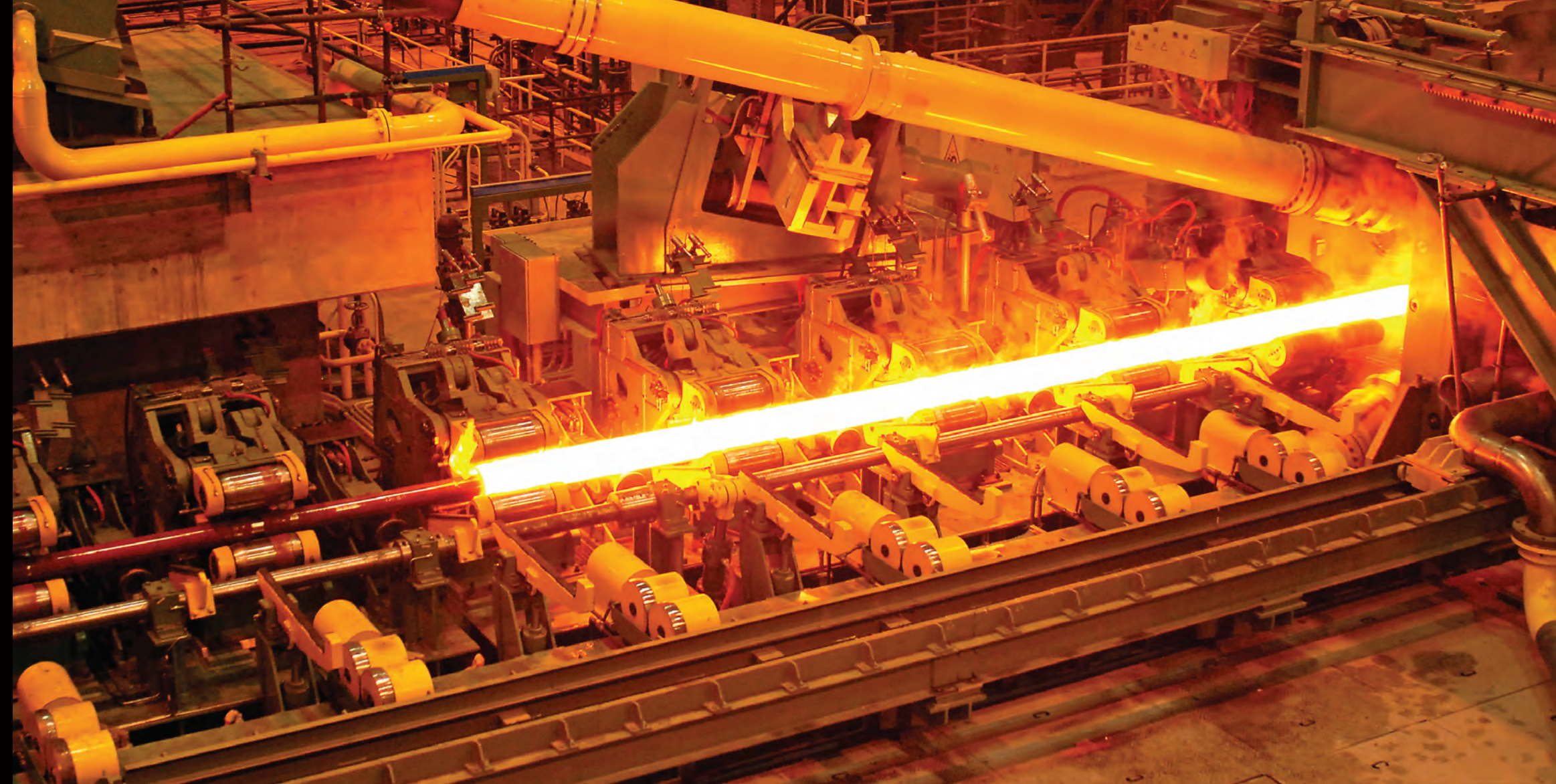


# INDUSTRIAL CENTER

 **Tenaris**Tamsa



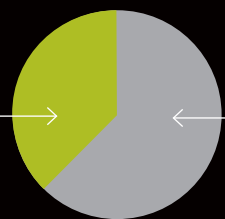
TenarisTamsa, Tenaris's Industrial Center in Mexico, is one of the world's largest steel pipe manufacturers for the energy industry. Located in Veracruz, it meets the needs of oil and gas companies and provides solutions for the most demanding exploration and production environments.





**30%**

of the production used  
in the domestic industry



**70%**

is exported to over  
50 countries

**1 million  
230 thousand**  
tons of production capacity

**5  
thousand**  
employees

**25  
thousand**  
indirect jobs

**1,300  
billion USD**  
of investment over  
the last five years



**+60  
years**

contributing  
to the growth  
of the Mexican  
energy industry

## Global company with local presence

TenarisTamsa is present in  
strategic locations for the energy  
industry.

- Manufacturing Centers
- Research and Development Center
- Services Centers
- Commercial Offices







Today, **TenarisTamsa** is one of the largest and most advanced Industrial Centers of the world.



Our integrated production process starts with the manufacturing of steel from scrap and sponge iron, which are turned into billets through continuous casting. These billets are transformed into seamless steel pipes in our rolling mill. Subsequently, the pipes are heat treated, inspected and finished before being delivered to the customer.





# NEW PIPE MILL

In May 2011, we opened our third seamless pipe mill. Designed according to the highest standards of safety, engineering and environment, this building is the first industrial facility of its kind in Mexico to receive LEED® certification, which is awarded by the U.S. Green Building Council.



**25 months**

was how long it took to build the rolling mill, in record time and within budget

**850,000,000  
US dollars**

was the investment required to build the third mill in Veracruz



**3,500**

people hired at the peak of construction.



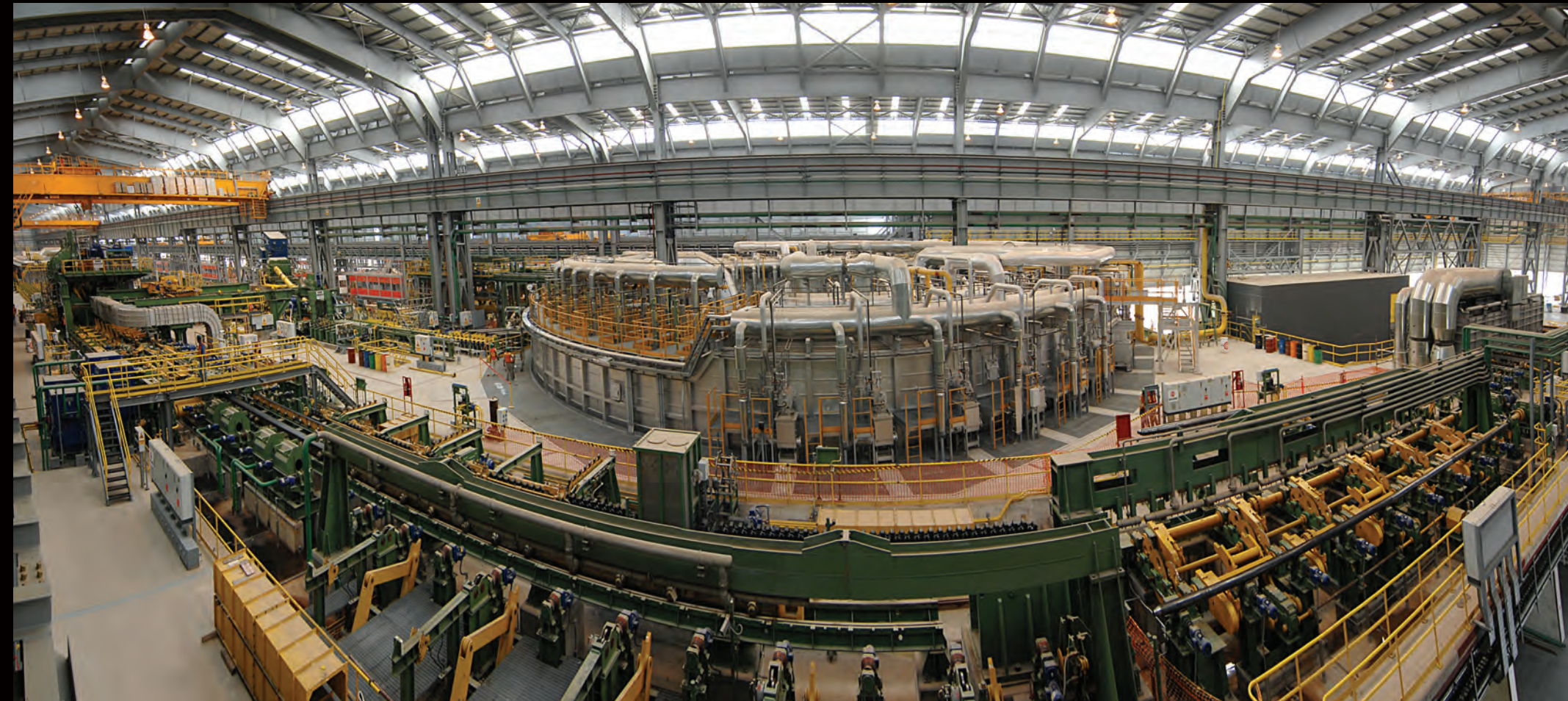
**39,500**

man-hours of training





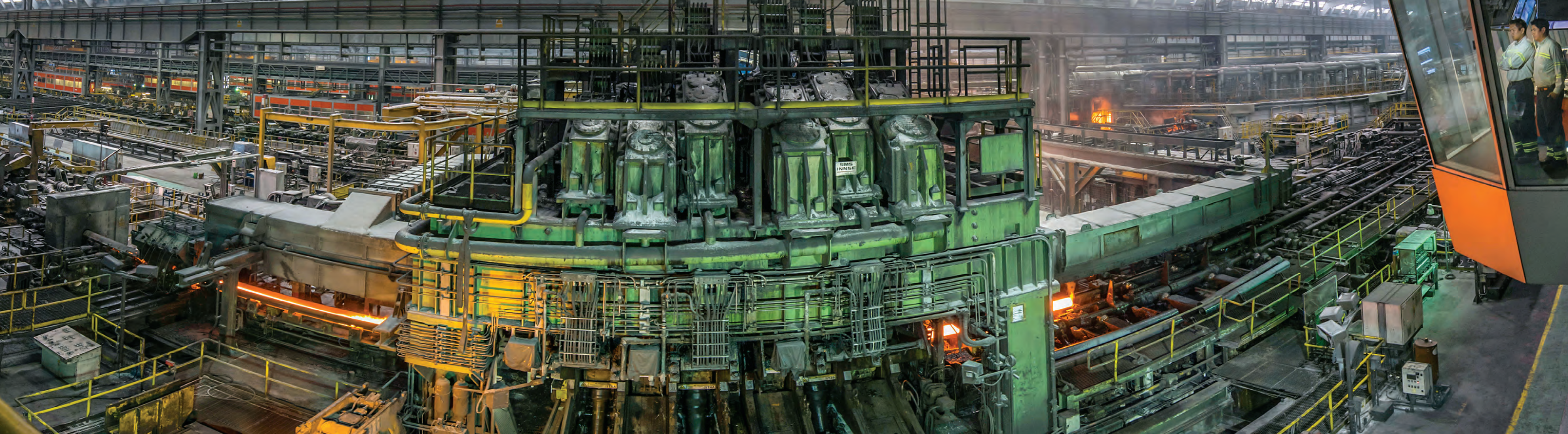
The third  
pipe mill was  
opened in May  
2011.



“From our origins, our business dream has been to create industries that can compete with the largest in the world, to grow on a global scale while contributing to the growth of our people and of the communities where we are rooted, establishing strong and long-lasting ties.”

PAOLO ROCCA, TENARIS CEO







# OUR PRODUCTS AND SERVICES

We have over 60 years experience manufacturing and supplying seamless casing, drill pipe, tubing line pipe and accessories in different steel grades for the following industries:



Oil and gas



Mining



Construction



Industrial applications



Automotive



Power generation



We are specialists in corrosion resistant and high temperature and high collapse steels; our dimensional range goes from 2 3/8" to 20".

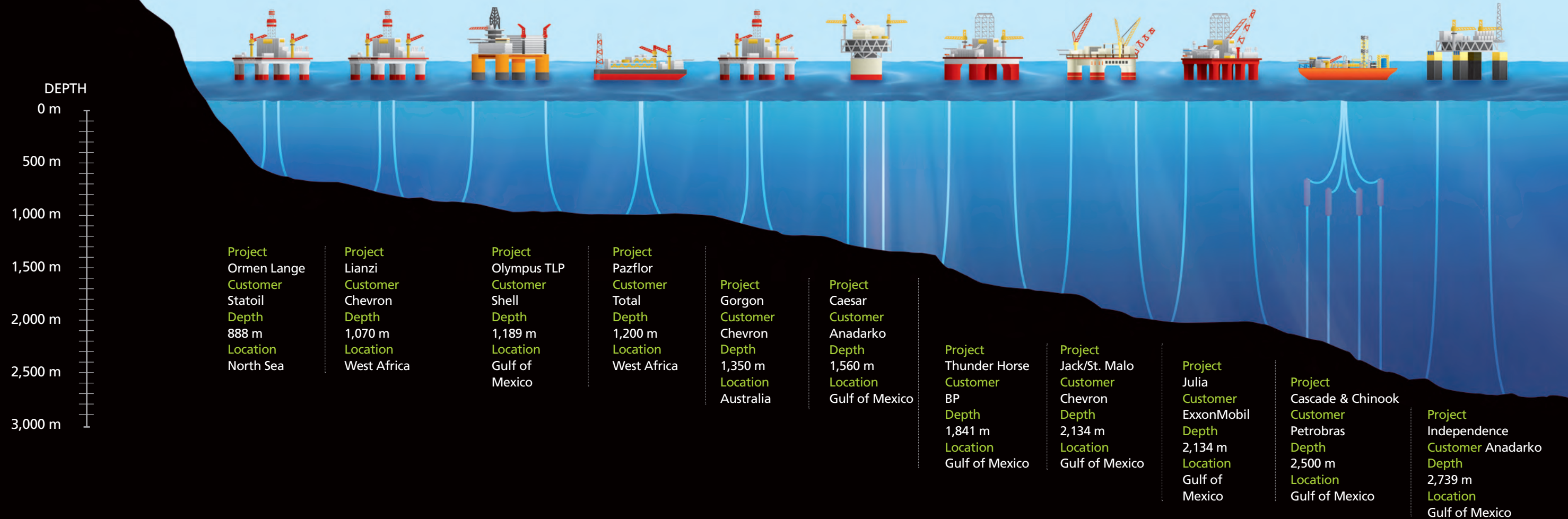
We also offer TenarisHydril premium connections, sucker rods and services such as Rig Direct™ (before Just in Time), which covers everything from string design and material selection to running assistance.





# DEEP EXPERIENCE AND KNOWLEDGE

For more than 20 years, Tenaris has invested in research and development of new products for deepwater and ultra-deep water environments. Our offering includes products manufactured with state-of-the-art technology, that meet the most stringent technical requirements under international norms and standards. During this time, we have also participated in the development of challenging deepwater projects in different regions of the world, specifically the Gulf of Mexico.





# RESEARCH AND DEVELOPMENT CENTER

Our Research and Development Center, with state-of-the-art equipment, is at the forefront of deepwater product development. We work closely with our customers as well as leading national and international educational and research institutions. Starting from local raw materials, we manufacture and export innovative products that reflect years of product and process research and development.



## THE AREAS

Since its opening in 2006, the R&D center has performed research and testing in four different areas:



Metallurgy and Welding



Process Development and Mechanical Solutions



Structural Integrity



Full-scale Laboratory Testing





**14 million  
USD**

invested in 2006



**30 million  
USD**

to be invested in the next  
two years



**62**

employees working at the R&D  
Center (holding PhD, Master,  
Licentiate, and technical degrees).





# CORPORATE UNIVERSITY

At TenarisTamsa, we believe that education, at all levels, is the key to improving people's standard of living, and to build and preserve the values of society.

With TenarisUniversity, our corporate university, we support the strengthening of corporate culture through the generation, integration and sharing of knowledge beyond geographic borders. This involves actions such as workshops, online courses, and technical and safety training.





One of our objectives is to not only provide training to our people and other Tenaris employees around the world, but also to PEMEX personnel, drilling companies, customers and product distributors.

Classrooms are named after the main archaeological sites of Mexico, such as Chichén-Itzá, Cempoala, El Tajín, Teotihuacán, La Venta, Uxmal, Monte Albán and Palenque.



**14 million dollars**

invested in the constructions of the TenarisUniversity building, which opened its doors in June 2010



**1,200,000 hours**

of training per year in TenarisUniversity



**300**

people able to be trained at once time





# AUTOMOTIVE COMPONENT CENTER

Opened in 2005, this center manufactures tubular components of pressure vessels for air bags and drive shafts for the North American market.



**5.5  
million USD**  
initial investment  
in 2005



**13.5  
million USD**  
invested in 2015



**28  
million**  
parts produced  
per year



TRAINING AND TESTING CENTER

# RIG DIRECT™ ACADEMY

We test our latest technology and provide training and technical assistance to employees and customers in real conditions at our own facility. We are able to provide full-scale demonstrations of products and new developments under extreme conditions.



**14.5 million USD**  
investment



**1 hectare**  
of land



## FACILITY



Drill  
equipment of  
1,500 HP with  
a conventional  
rotary system



Loading  
capacity of  
500 tons



Total height of  
53 meters with  
double and  
triple stowing  
capacity



Equipment  
capable of  
handling  
range from  
2/3" to 36"



# SUCKER RODS MILL

Opened in March, 2012.  
With this investment,  
TenarisTamsa became the  
first local producer of sucker  
rods, seeking to respond  
to growing demand of our  
customers in Mexico, the  
United States and Canada,  
by increasing production  
flexibility and optimizing  
lead times.



 **47 million USD**  
total investment

 **1 million  
sucker rods**  
per year production capacity

# INVESTMENTS

Expansion of the Steel Mill.  
Through this investment,  
TenarisTamsa not  
only expands the  
production capacity of  
the steel mill, but also  
potentiated equipment  
for greater efficiency and  
environment care.

 **110  
million  
USD**  
total investment







# AVANT-GARDE ARCHITECTURE

In our administrative building, opened in December 2001, the abstraction of volumes, colors and Mexican archetypal forms coexist in perfect harmony. For example, the architecture takes the Mayan arch of our Pre-Hispanic roots. Overall, the architectural space is a combination of advanced technology and tradition.







# COMMUNITY

Improving the quality of life of our employees and their families and contributing to the development of the community, is our mission; community projects constitute the social dividend that the company pays back to the local community.

Since 1996, Tamsa, A.C., our civil association, has promoted projects that foster excellence, with an emphasis on areas such as education, health, culture, integration of staff and their families, community development and the environment.





# QUALITY EDUCATION

At TenarisTamsa, we believe education is a key factor for community progress. With a quality education, it is possible to access employment and generate an equitable coexistence. We promote educational programs such as:



AfterSchool  
Educational Scholarships  
Merit Scholarships  
Summer Club  
Schools of Excellence

Technical Gene  
School Leadership



**+3 million 200  
thousand USD**  
invested in education in the  
last three years



**380 young people**  
received a Merit Scholarship in the last three years





## GROWING IN MEXICO

For the past 60 years, TenarisTamsa has contributed to the development and growth of the Mexican oil industry through joint work with PEMEX in the supply of products, technology and services to meet the most demanding requirements.

Over the years, the relationship has been consolidated, developing Rig Direct™ (before Just at Time) that allows Pemex to reduce their operational, administrative and storage costs.





✦ Agostino Rocca, founder of the Techint Organization and TenarisTamsa.

# VOCATION, VISION AND PASSION

The TenarisTamsa Industrial Center is the result of a long-term project with a global vision.

After six decades, it takes pride in its extensive and fruitful manufacturing history, which has been key to the Mexican and international oil industry.



## TENARIS

Tenaris is a leading supplier of tubes and related services for the world's energy industry and certain other industrial applications. Our mission is to deliver value to our customers through product development, manufacturing excellence and supply chain management. Tenaris employees around the world are committed to continuous improvement by sharing knowledge across a single global organization.

