



## TenarisTamsa Industrial Center

### Our experience

Over 70 years producing and supplying seamless steel pipes and accessories for the energy industry in Mexico. With a one-of-a-kind Research and Development Center, eco-friendly products, considerable experience in some of the most complex deepwater and unconventional oil and gas projects, we accompany the leading oil and gas companies in the exploration and production challenges that they face in the most demanding environments of the world.

Annual  
production of  
**1,230,000  
tons**

**5,000**  
employees

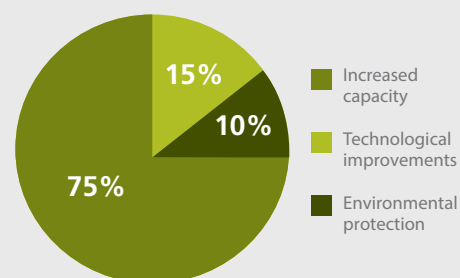
- Located in the Port of Veracruz
- Exports 80% of its production to over 50 countries
- 1 R&D Center
- 1 Corporate University
- 1 training and testing center, Rig Direct™ Academy
- 8 sales offices and a nationwide network of authorized distributors
- Encourages projects and programs which promote the excellence in education, health and culture through its civil association, Tamsa AC

### Integrated Manufacturing System

- 1 steelshop
- 3 manufacturing plants
- 1 OCTG accessories mill
- 1 sucker rods mill
- 1 fittings plant
- 1 automotive components center
- 3 finishing and services centers

### INVESTMENTS

**1.3 billion dollars** over the last seven years



### Products and services

- From 2 3/8" to 20"
- Casing, drilling, tubing and line pipe in different steel grades
- Specialists in producing high strength steel resistant to corrosion, collapse and HT/HP
- Premium connections
- Sucker rods
- Supervision and pipe running services
- Car components and pressure vessels for airbags

Our **Integrated Production Process** begins with the steel manufacturing process itself, before this is cast into seamless pipes in our mills and subjected to heat treatment and inspection. The finished products are delivered according to different national and international specifications as stipulated by the customer, under the service model **Rig Direct™** (former Just In Time delivery)



### Certifications

- ISO 14001:2004
- OHSAS 18001:2007
- LEED®
- ISO 9001:2015
- ISO/TS 16949:2009
- NMX-EC-17025-IMNC-2006

### Specifications

- NRF -001 (Pemex)
- LAPEM
- ASME
- ASTM
- DIN
- DNV
- GOST-R

### Licenses

- API 5CT
- API 5L
- API 5DP
- API 11B

### Main markets

- Oil and gas industry
- Construction industry
- Automotive industry
- Mining industry
- Industrial applications

### Rig Direct™ Academy, training and testing center

A facility that allows us to simulate drilling operations and conduct testing and qualification of products.

- 14.5 million dollar investment
- Covering a surface area of 1 hectare
- Drilling equipment of 1.500 hp with a conventional rotational system
- Load capacity of 500 tons
- Total height of 53m with capacity to stow doubles and triples
- Equipment capacity of 2 3/8" to 36"



### Industrial innovation: the Research and Development Center

The Center undertakes research and testing in four different areas: Metallurgy and Welding, Process Development and Mechanical Solutions, Structural Integrity and the Full-Scale Testing Laboratory.

The laboratory uses combined-load machines to perform fatigue testing using resonance to qualify products for deepwater environments, mainly risers and premium connections.

- Inaugurated in 2006 following a 14 million-dollar investment
- Over 60 million dollars were invested in the last two years
- The main areas of work are the development and qualification of casing and production pipes, flowlines, risers, as well as premium connections
- The Center has developed innovative products with engineering and oil companies for highly demanding, HP/HT and corrosive environments



### Adding value through knowledge: TenarisUniversity

Inaugurated on June 7, 2010, TenarisUniversity in Mexico maximizes efficiency and effectiveness when it comes to the range of training activities on offer. It also provides training to personnel from Petróleos Mexicanos (PEMEX), drilling companies, customers and distributors.

- Covering a surface area of 3,500 m2, the project required a 14 million dollar investment
- There are 22 training rooms overall, including workshops, two meeting rooms, a conference auditorium and classrooms
- The installation has the capacity to house 300 students, customers or visitors