

OCTG ENERGY TUBULAR SOLUTIONS





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Tubacex is a global leader in the manufacture of high value-added industrial products and services in advanced stainless steels and special alloys for the energy and mobility sectors.

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PRODUCTION
PLANTS

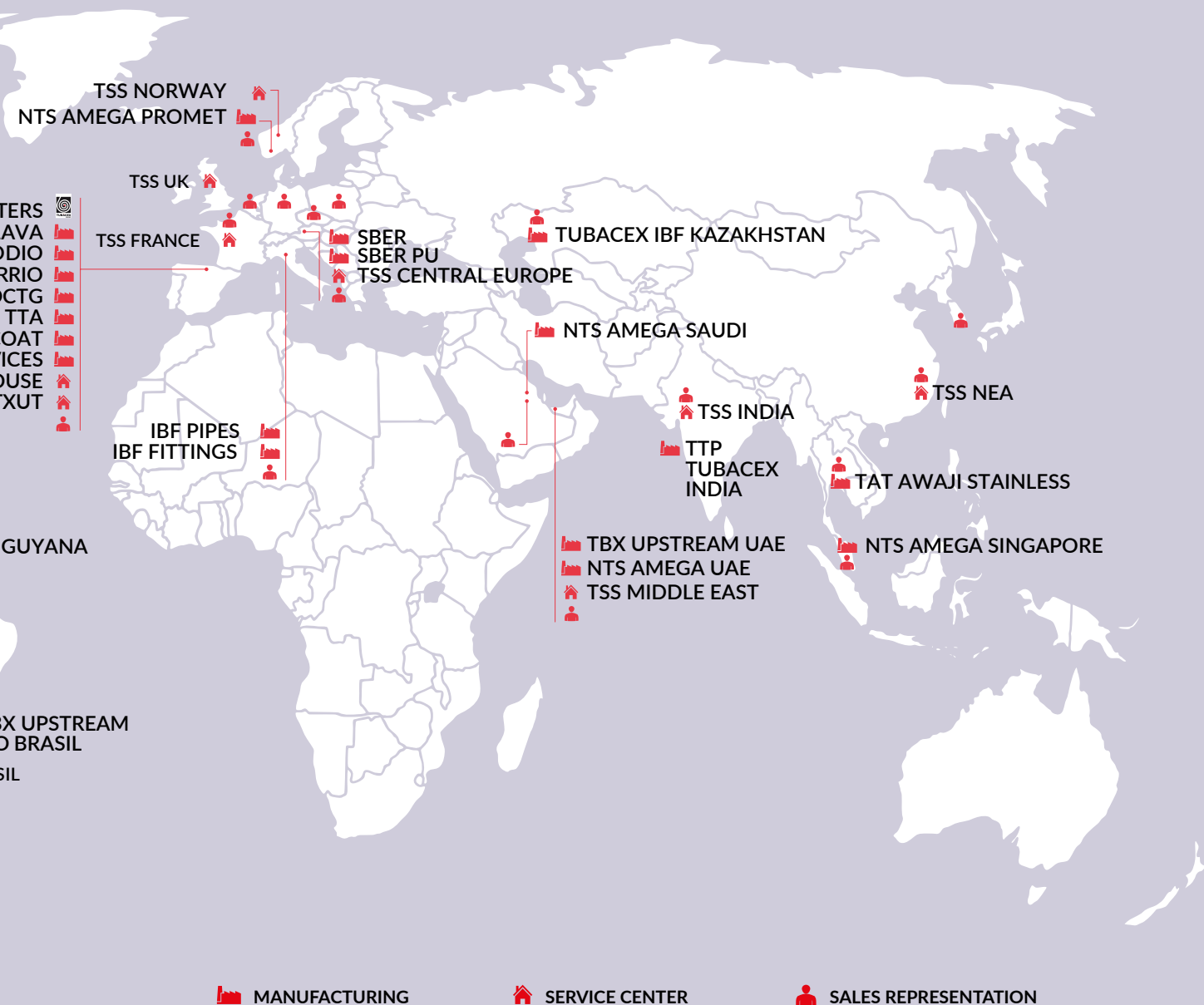
14
SERVICE
CENTERS

2,700
EMPLOYEES



With a commitment to innovation and excellence, our fully integrated value chain spans from research and development to the delivery of the end-product. This integration guarantees cutting-edge technology, superior quality, and a focus on sustainability and circularity that sets industry standards. We specialize in a range of advanced materials, including corrosion-resistant alloys (CRA), and offer a suite of advanced machining services.

Tubacex operates production facilities and service centers across over 30 countries, ensuring valuable service delivery to its clients worldwide. Its commitment to sustainability and environmental stewardship is recognized and validated by top ESG certification authorities. This includes adherence to Science-Based Targets (SBT) for reducing emissions, to the Carbon Disclosure Project (CDP), and meeting the sustainability criteria set by S&P.



DRIVING VALUE IN THE OCTG ECOSYSTEM

Tubacex has established itself as a global leader in designing, manufacturing, and installing advanced industrial products as well as supplying high-value added services for the OCTG industry.



Materials Expertise

Advanced alloy formulations.

Comprehensive in-house tubular products manufacturing.

State-of-the-art finishing and inspection line, approved by internationally renowned end users.

Streamlined Project Execution

Expertise in inventory oversight and regulation.

Integrated solutions for logistics and warehousing.

Management of rig preparation and post-operation rig returns.

THE TUBACEX OCTG ECOSYSTEM

Advanced Premium Connections

Provision of latest generation premium connections.

Demonstrated threading capabilities and global licensee network.

Integration with eco-friendly surface finish and lubrication systems.

Excellence in Field Services

Global running services supervision.

Crew training.

24/7 technical support.

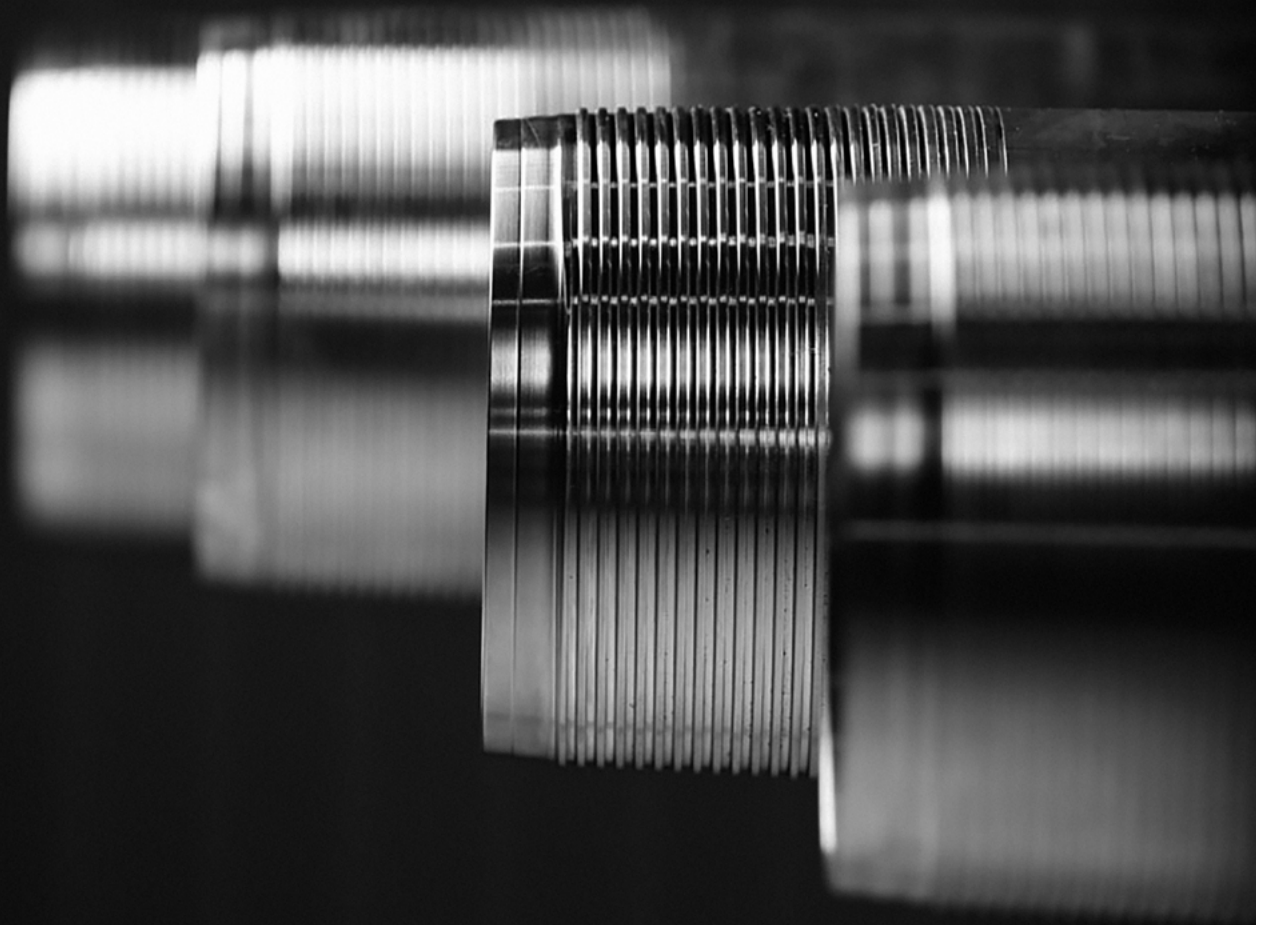
Grades and equivalences

MATERIAL	UNS NUMBER	ISO13680/API5CRA		STRUCTURE	GRADE YS (KSI)
		GROUP	CATEGORY		
TX-22	S31803	2	22-5-3	Duplex	65/110/125
TX-25NP	S32750		25-7-4	Superduplex	80/125/140
TX-25W	S32760		25-7-4		
TX-28N	N08535	3	25-32-3	Austenitic Fe	110
TX-28	N08028	3	27-31-4	Austenitic Fe	110/125
TX-28HY	N08028	3	27-31-4	Austenitic Fe	140
TX-825	N08825	4	21-42-3	Austenitic Ni	110
TX-G3	N06985		22-50-7		110/125
TX-G50	N06950		20-54-9		110/125

02

PREMIUM CONNECTIONS

Innovative connections for the most
critical well environments.



01

Empowering the oil and gas industry



Our fusion of advanced manufacturing and eco-conscious solutions culminates in connections that drive performance across a broad spectrum of applications in the oil and gas industry. Our connections empower your well operations, ensuring reliability and high performance in every scenario.

Experience the future of premium connections with Tubacex, where precision, innovation, and environmental responsibility converge.

02

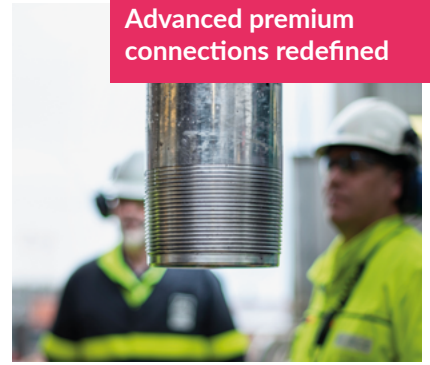
Precision-cut connections



Tubacex provides manufacturing of precision-cut, proven, and innovative connections in certified mills to ensure dependable running and exceptional downhole performance. These connections are qualified according to the latest and most stringent test protocols, and they incorporate new environmentally friendly coatings and lubrication systems. This combination of advanced manufacturing techniques and environmentally conscious solutions guarantees reliable and high-performing connections for a wide range of applications in the oil and gas industry.

03

Advanced premium connections redefined



At Tubacex We introduce the latest generation premium connections that redefine industry standards. Our commitment to precision and innovations shines through as we provide connections that are not only proven but also elevate performance downhole.

04

Dependable running, exceptional performance



Our precision-cut connections are meticulously crafted in certified mills, ensuring the highest standards of quality. These connections are more than components; they are a promise of dependable running and exceptional downhole performance. With Tubacex, you're investing in connections that stand the test of time.

05

Rigorously qualified and environmentally conscious



Each connection undergoes rigorous qualification, adhering to the latest and most stringent test protocols. But that's not all – we've taken a step further by incorporating new environmentally friendly coatings and lubrication systems.

Our premium connection technology enhances for optimal performance using standard CRA end-finish (Cu-plating on box + API modified).

Environmentally friendly options also available.



SENTINEL® PRIME

A Tubacex Technology

CONNECT IT ALL

A TESTED AND RELIABLE CRA-NATIVE PREMIUM CONNECTION, ENABLING TUBACEX TO BRING A FULL SUPPLY CHAIN SOLUTION.

Tubacex Group, with a legacy of decades in the OCTG segment, presents Sentinel® Prime, a CRA-born premium connection which drives value ensuring reliability and high performance in critical well environments.

NEXT GENERATION PREMIUM CONNECTION FOR CRITICAL WELL ENVIRONMENTS.

SENTINEL® Prime has been full-scale tested as per API 5C5:2017 to the most stringent connection assessment level (CAL IV). It has been specifically designed and tested on CRA materials including Super Duplex, Alloy 28 and Alloy 825, showing outstanding performance in terms of sealability and galling resistance.

EXCELLENCE IN DELIVERY OF DOWNHOLE TUBULAR TECHNOLOGIES WITH UNMATCHED CUSTOMER SERVICE.

From our global manufacturing centers to the customer rig site, Tubacex is a leader in the supply of CRA solutions for critical well environments.

COMPLETE CONTROL OF THE MANUFACTURING PROCESS.

From steel melting to threading, delivery and field service support, our tubulars are supplied with an unswerving commitment to safety, efficiency, and flexibility across the value chain.

Scan this QR for more information



www.sentinelconnections.com



Conventional And Low Carbon Applications

E&P Critical Wells

HP/HT

Enhanced Oil Recovery

CCUS

Geothermal

Hydrogen Storage

End Finish Options

Rig-ready storage and running system: Specially coated box + Engineered Eco lubricant (**reduced environmental footprint**)

Standard CRA end finish:
Cu-platted box + API-modified

Size range goes from 2 - $\frac{3}{8}$ " to 9 - $\frac{5}{8}$ "

Seal Design

Double radial seal to optimize contact pressure

Reduced contact pressure peaks to minimize galling propensity

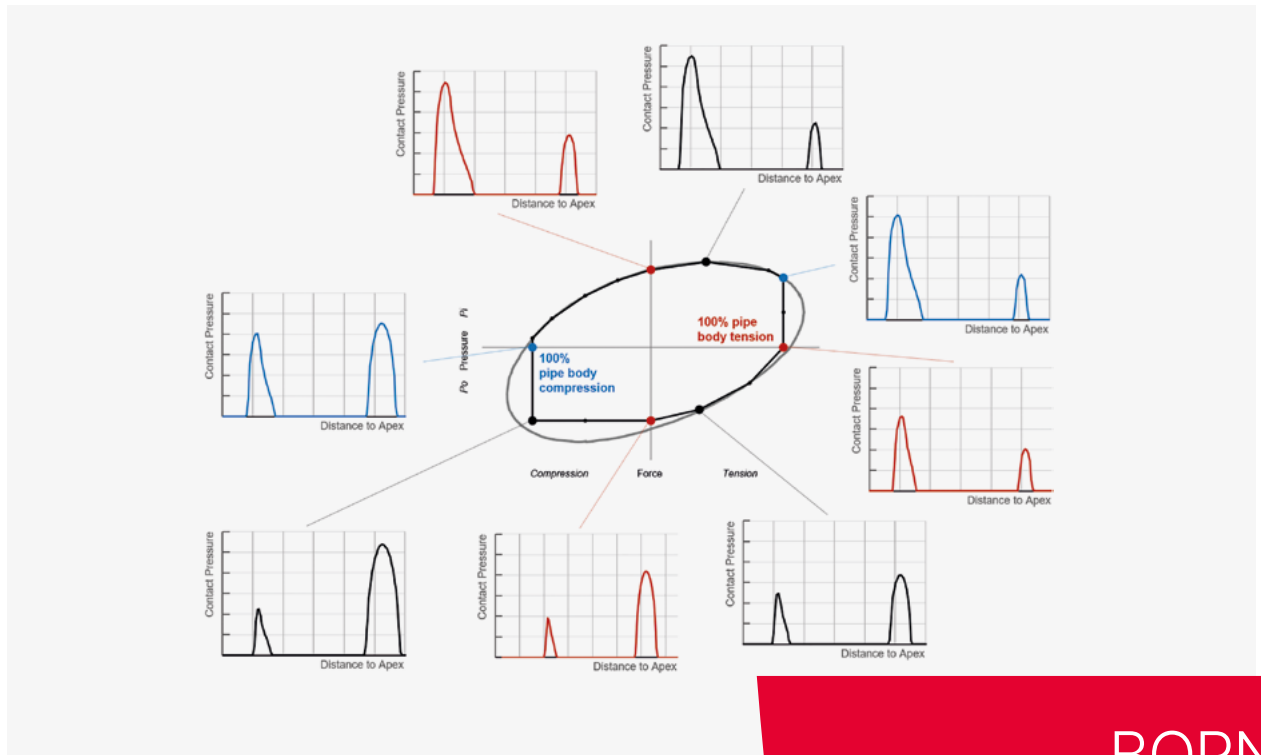
Maximized torque shoulder area to improve compression rating and overtorque capability

Thread Design

Negative load flank hook design

Positive stabbing flank

Reduced gap to maximize performance under compression



100% pipe body envelope

Qualified as per API RP 5C5:2017 - CAL IV

BORN
FOR CRA,
READY FOR
YOUR WELL.

03

RIG SITE SERVICES & SUPPORT

Present when needed,
where needed.





Enhancing Rig Site Services

Our specialized team is dedicated to enhancing rig site operations, aiming to elevate safety, quality, operational performance, and the delicate equilibrium between efficiency and cost.



Empowering Crews Through Training

Tubacex stands committed to empowering crews across diverse operational settings. A seasoned and proficient team ensures comprehensive training for personnel stationed at various operations. This training provides the practical skills and knowledge essential for a secure and efficient running.



Expertise Tailored to Rig Site Realities

Our experienced team, stationed on-site, covers a spectrum of crucial areas:

- Conducting safety assessments and risk analysis.
- Identifying potential hazards within operations.
- Managing environmental controls.
- Efficient handling and storage yard management.
- Engendering best practices for operation care and maintenance.
- Ensuring precise parameter monitoring and data interpretation.
- Navigating traceability systems and documentation protocols.



Comprehensive Service Network

Our extensive network of service centers and licensees shops spans the globe, ensuring the capability to manage inspection and repair works. These activities are carried out in-house at key international Oil & Gas hubs, such as USA, Canada, Norway, Singapore, Saudi Arabia, Brasil, UAE, and Guyana, among others. Our sister company NTS AMEGA, enables us to cater unique requirements on a global scale. This effort has covers a portfolio of approved repair and accessories threading workshops, strategically designed to extend the longevity and availability of tubulars and downhole tools.



Running Services And On-Site Oversight

Tubacex team excels in various crucial aspects, including:

- Applying meticulous criteria for analyzing make-up graphs, determining acceptance or rejection.
- Providing assistance during visual inspections.
- Facilitating repair techniques for connections.
- Offering decisive insights and criteria for navigating unexpected situations.







**BY
YOUR
SIDE**

Our
professional
team will be
where you need
them, when you
need them

04

AN INNOVATIVE JOURNEY STARTING FROM ADVANCED MATERIALS

Tailored solutions to fit your challenges.

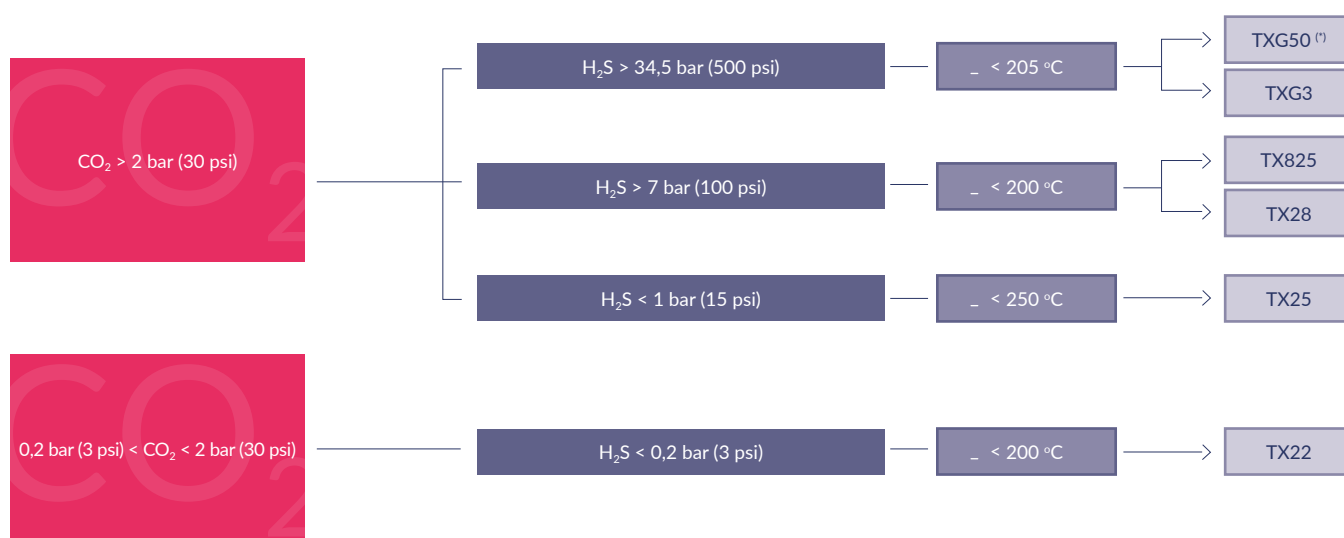


Our commitment to research and development sets us apart, maintaining our leadership in manufacturing seamless stainless steel tubes and high-quality alloys. Driven from the **Energy Intelligence Center**, our energy-focused technology hub, and supported by two innovation centers, we strive to optimize processes and develop cutting-edge solutions for key sectors like energy, petrochemical, and aerospace.

Applied Research and Development

Our qualified Research and Development (R+D) team forms the backbone of our commitment to innovation. We collaborate with a vast network of approved laboratories to provide comprehensive support for your design requirements.

This includes specialized data on critical factors such as collapse, compression, slow strain rate tests, corrosion behavior in H₂S ambient (SSRT, SSC, SCC), and temperature derating.



(*) Positive results in presence of free sulphur

Key facts



Tubacex materials development journey

01

A Collaborative Approach

Tubacex Group is dedicated to providing a comprehensive range of products and services associated with the OCTG ecosystem, with a focus on quality, driven by API Q1 and Q2 standards.

The OCTG Ecosystem goes beyond manufacturing. It's a collaborative effort involving a network of sister and external companies, each playing a crucial role in the creation and delivery of our offerings. These processes are overseen by our management system, ensuring consistent quality and control.

02

Innovation at the Service to Our Planet

At Tubacex, innovation isn't just a concept; it's a commitment to our planet's wellbeing. Our journey through material development has been an evolutionary one, marked by progress and driven by a dedication to a greener future. Every step, from enhancing metal resistance to oxidation to incorporating nickel and chromium for improved humidity and corrosion resistance, is rooted in a single principle: harnessing innovation for the betterment of our planet.

03

Constant Evolution in Materials Design

We've consistently stayed at the forefront of material advancements, ensuring that we're always in sync with the latest developments. Recognizing the imperative of creating a new generation of materials, we strive not only to meet the most rigorous technical specifications but also to achieve this with optimal efficiency and the least environmental impact.

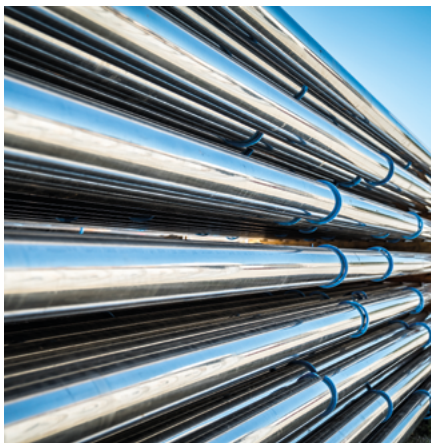


We are experts in the harshest environments for challenging wells.

04

Mastery in Challenging Well Environments with Efficiency

Tubacex excels in some of the toughest environments, where efficiency and safety stand as paramount principles. These challenging settings demand adherence to a diverse spectrum of design requirements that ensure unwavering performance over time. Our expertise lies in crafting products that not only meet these critical demands but also guarantee the highest levels of reliability.



05

Meeting the Demands of Harsh Environments

Harsh-environment applications necessitate a comprehensive approach to design, encompassing a wide range of factors. Our products are meticulously engineered to rise to these challenges, providing robust solutions that withstand the test of time. Particularly, our downhole casing, production tubing and premium connections, crafted from Corrosion-Resistant Alloys (CRA) like dual-phase, superaustenitic, and nickel base alloys, are tailor-made to combat the aggressive corrosion conditions found in sour wells. These wells often contain elements such as hydrogen sulphide, carbon dioxide, and other chemicals.

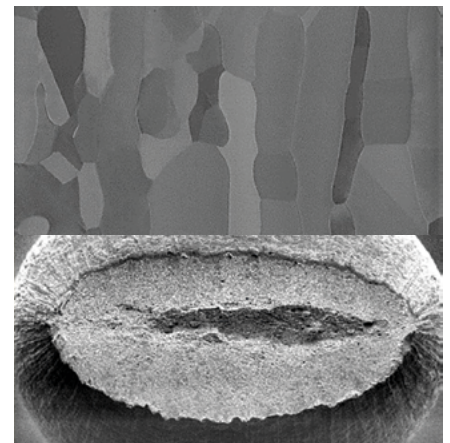


06

Unlocking Excellence with Material Expertise and Manufacturing Mastery

At Tubacex, our profound understanding of materials and mastery in manufacturing come together to present an unparalleled portfolio of corrosion-resistant alloys (CRA). These alloys include the remarkable dual phase 22Cr and 25Cr as well as Fe/Ni base austenitic alloys. These proprietary grades are meticulously engineered to endure the harshest and most aggressive conditions, earning the approval and utilization of leading Oil and Gas companies worldwide.

Guided Material Selection Our team of experts stands ready to guide you in selecting the optimal material for your specific application. This not only streamlines your supply process but also streamlines costs, fostering efficiency and cost-effectiveness in every facet of your operations.



Improving performance in harsh environments

Pioneering the Future

01

Tubacex is positioned to take on remarkable cutting-edge projects in the market. One such example is the supply of CCUS injection tubing with tailored materials. This application holds immense significance as we work towards realizing a net-zero emissions scenario by 2050. We're driven by the responsibility to contribute to a sustainable future, and our dedication to innovation paves the way for solutions that make a meaningful impact.

Engineered for Excellence

02

Our tubes are predominantly supplied in a cold-worked condition, ensuring they possess both high strength and low weight. This combination empowers engineers to select the optimal configuration, perfectly tailored to endure the rigors of severe working conditions.

Embracing the Challenge

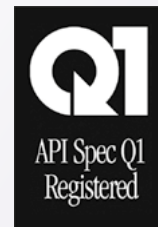
03

In the face of challenging environments marked by hydrogen sulfide, carbon dioxide, and free sulfur, our high-yield grades stand strong, ensuring longevity and reliability in downhole operations. We rise to the occasion, delivering steadfast solutions that thrive where others falter.



Versatile Alloys for Varied Applications

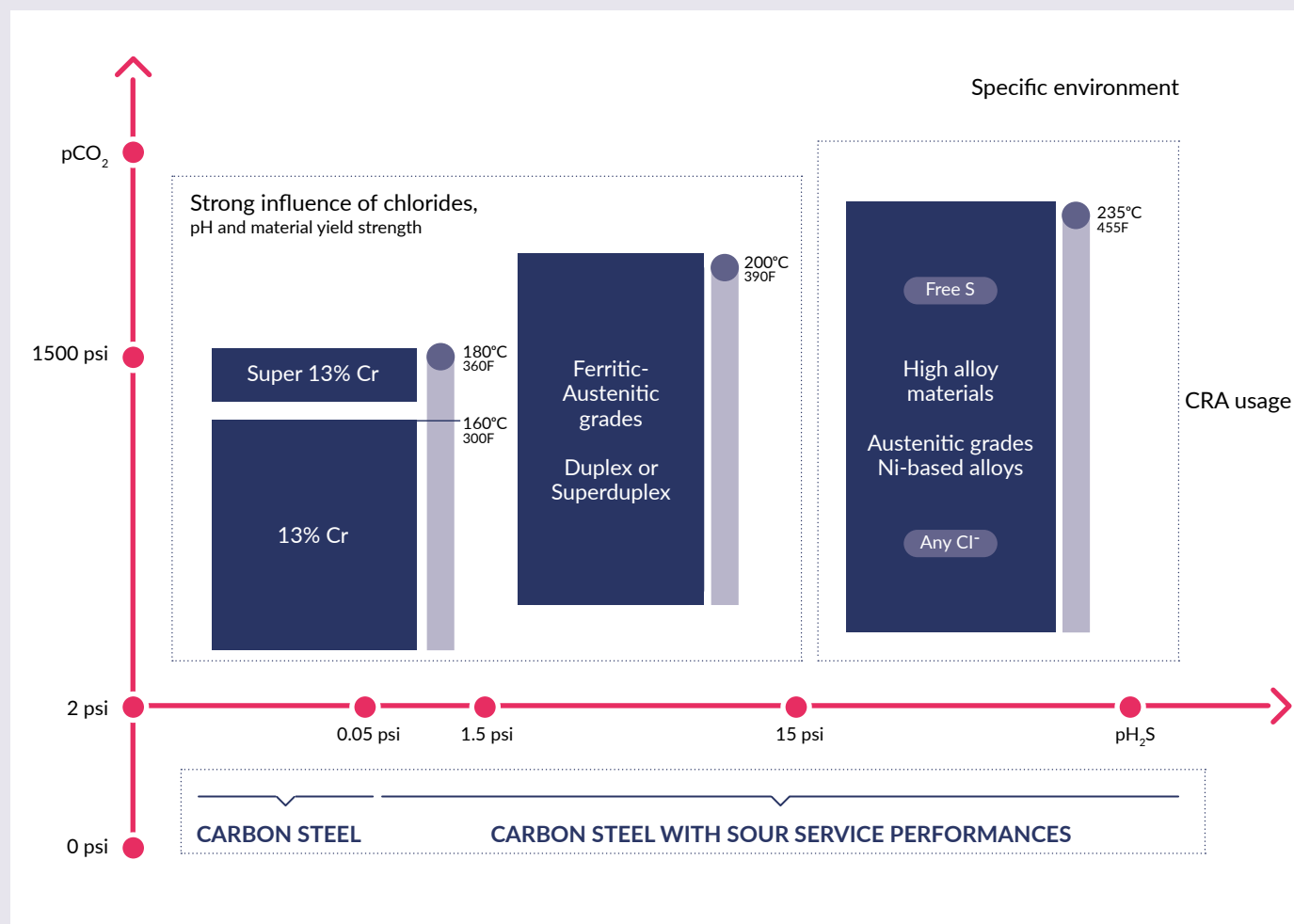
04



Tubacex's proprietary alloys are designed to be versatile, covering an extensive array of applications.

Challenging Oil&gas wells with:

- HP/HT.
- Sour or wet gas.
- Cl⁻, H₂S, SO₂, ... presence.
- Chemical and sea water injection.
- Enhanced Oil Recovery.
- Sandscrews and accessories.
- CCUS.
- Geothermal Wells.



BY YOUR SIDE

Developed internal tools aligned with Customer needs to provide a holistic solution.

CEX
GROUP





Holistic project management

Tubacex manages each project as per customer requisites. All the stages of the supply chain, from pipe manufacturing to running operations, are led by a global project management, governed by an API Q2 QMS.

Our approach to project management focuses on minimizing the total cost of ownership by integrating supply and inventory management, guaranteeing availability at the rig site regardless of location or time, delivering value through seamless project execution.

The nexus of handling and running seamlessly converges with **Tubacex's Dynamic Traceability System**. The final product bears a bidimensional matrix code and a corresponding tracking number. These codes are intelligible through laser readers and software and through smartphones, facilitating effortless control of products during handling and running operations. Each operation is automatically logged within the system, ensuring real-time updates and access to comprehensive product information.



Logistics and service centers

Tubacex's logistical operations assume a pivotal role in the global supply chain. Comprehensive services cover various areas, encompassing tubular transportation, storage and inventory management, as well as packing and on-time delivery.

Our extensive network of service centers, strategically positioned across the world, encompasses the day-to-day needs of the rig site, offering tubulars and connections inspection, rig preparation, rig returns management, accessories and repairs.



SUCCESS STORIES

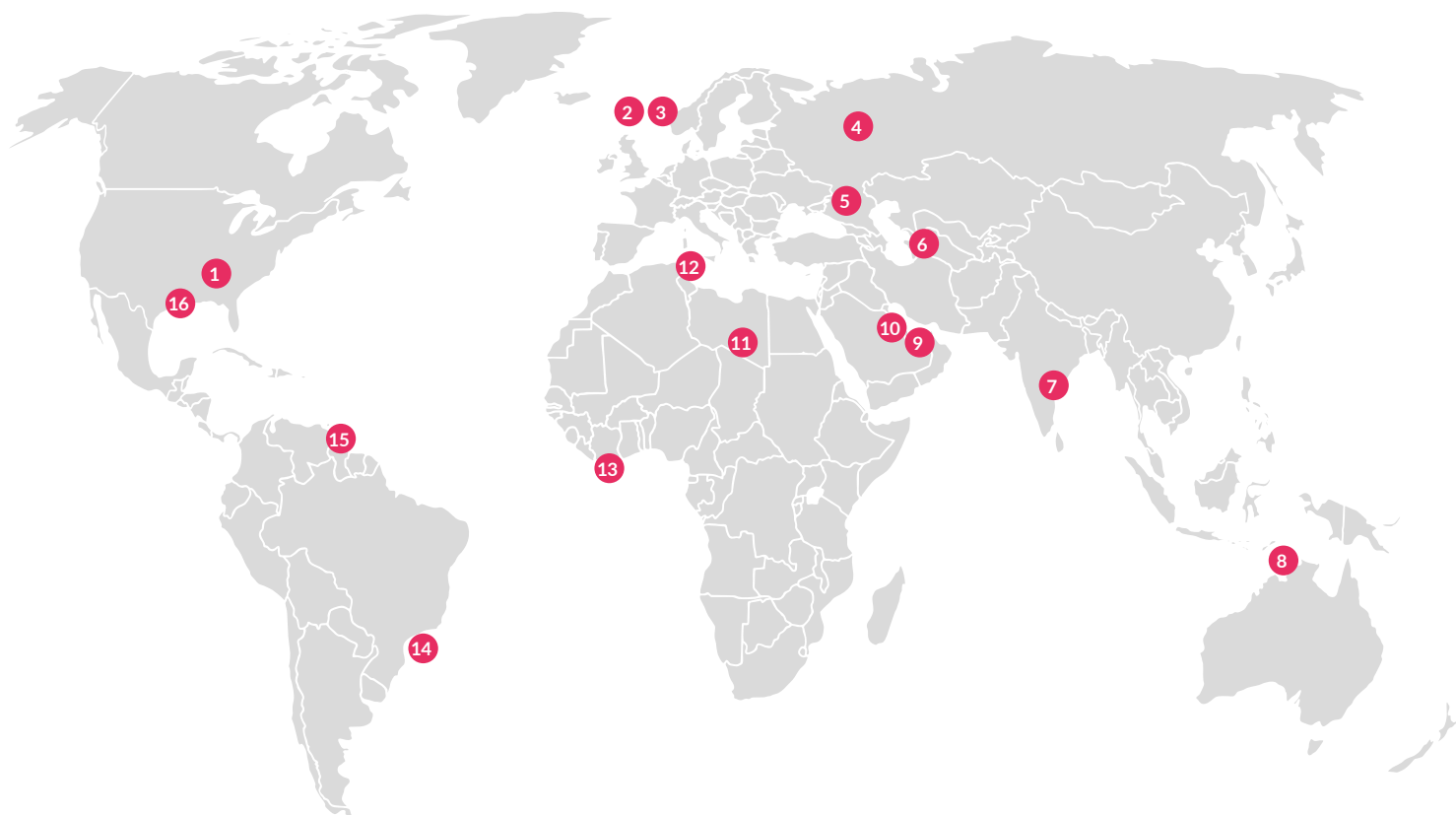
+30,000 tons of CRA OCTG delivered
in the last years to O&G E&P global
leaders.



Our effort showcases our **worldwide commitment to excellence**, reflecting in the **services and solutions** we provide for managing tubulars within each country.

A legacy of success

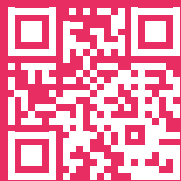
Tubacex's commitment finds its true expression in fostering a closer bond with our customers, propelling their businesses towards growth. This commitment is realized through the synergy of state-of-the-art facilities, crafting corrosion-resistant alloys, and the strategic development of local sourcing for the most pivotal components in Oil & Gas E&P.



1	2	3	4	5	6	7	8
Project name non-disclosed	Catcher	Nederlan	Komi Chernomye	Astrakhan	Yoloten	KG-DDW/DWN 98/2 KAKINADA	Barossa
9	10	11	12	13	14	15	16
Various projects	Dukhan	Mabruk Dolphin Abu Al Bukhush	Miskar	Cote d'Ivoire	Buzios 5-8 Campos Mero 4	Payara	Tahiti

We are the
partner to
deliver an
integrated CRA
solution derived
in-house.

TUBACEX
GROUP



tubacex.com





OCTG COMPETENCE CENTER

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FIELD RUNNING SUPERVISION
24/7 TECHNICAL SUPPORT
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