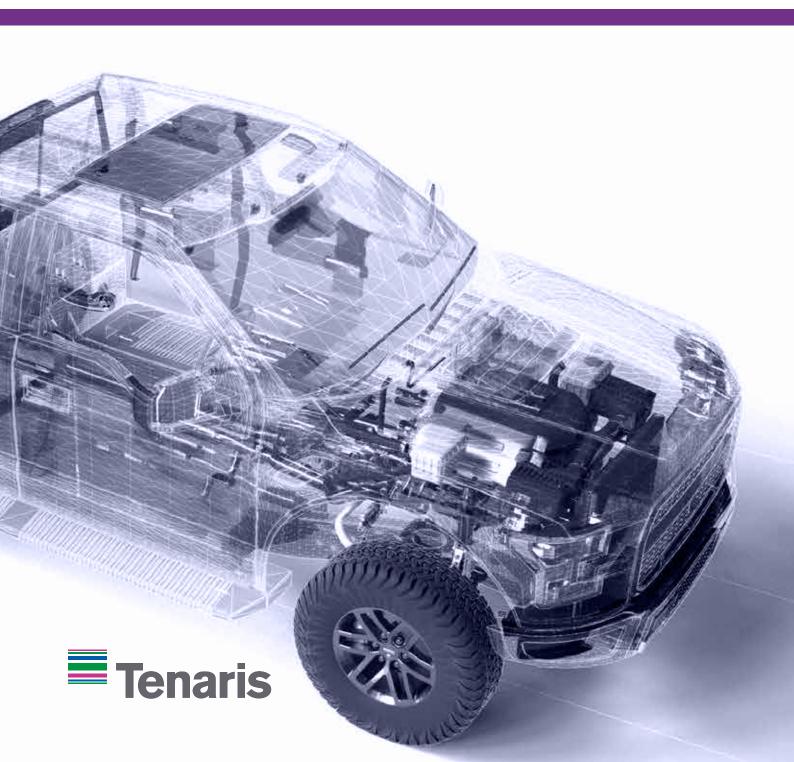
Global solutions for the automotive industry





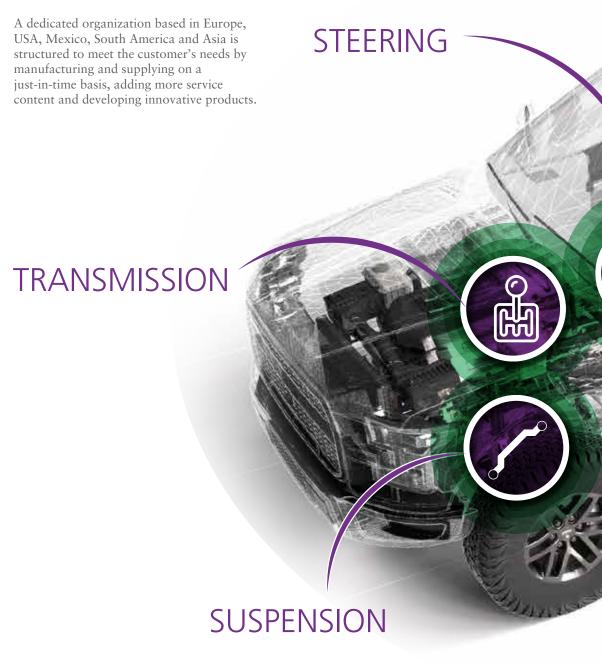


A reliable leading partner

Dedicated to maximizing production process efficiency and cost-effectiveness

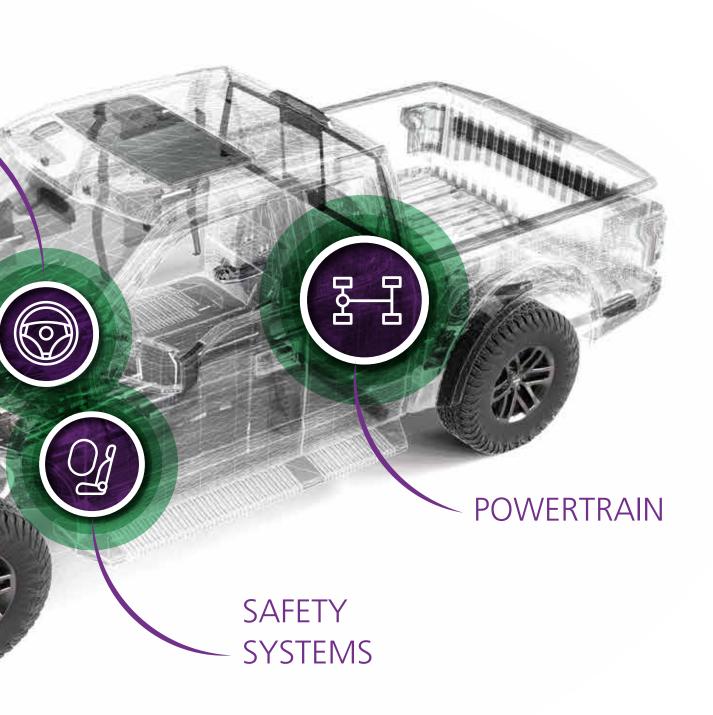
Tenaris has a long-term experience providing high quality automotive products and services worldwide.

Our fully integrated industrial system offers a full range of hot rolled and cold drawn seamless tubes. The aim is to add value by streamlining the customer's supply chain, permitting greater focus on core operations. Additionally our mills in Romania, Argentina and Mexico are leading producers of seamless tubes and have dedicated automotive component centers equipped with state-of-the-art technology to perform value-added operations (such as forming, welding, etc) for automotive components to better serve automotive car manufacturers.



TENARIS HIGHLIGHTS VERTICAL INTEGRATION OF THE PROCESS

PROVEN AND RELIABLE TECHNOLOGIES GLOBAL FOOTPRINT, LOCAL SERVICE



Global solutions

Tenaris supplies a wide range of products for different automotive applications, both tubes and vertical integrated components, developed through a consolidated network of research and development and component centers.









PRODUCTS & OPERATIONS

Tenaris designs and manufactures high quality products for application in Safety, Steering, Chassis and Suspensions, Heavy Truck and Trailer, Transmission and Powertrain components.



Hot rolling

Cold drawing

In house heat treatments, such as quenching and tempering













Cut-to-length at specified tolerances

End finishing, including deburring and beveling

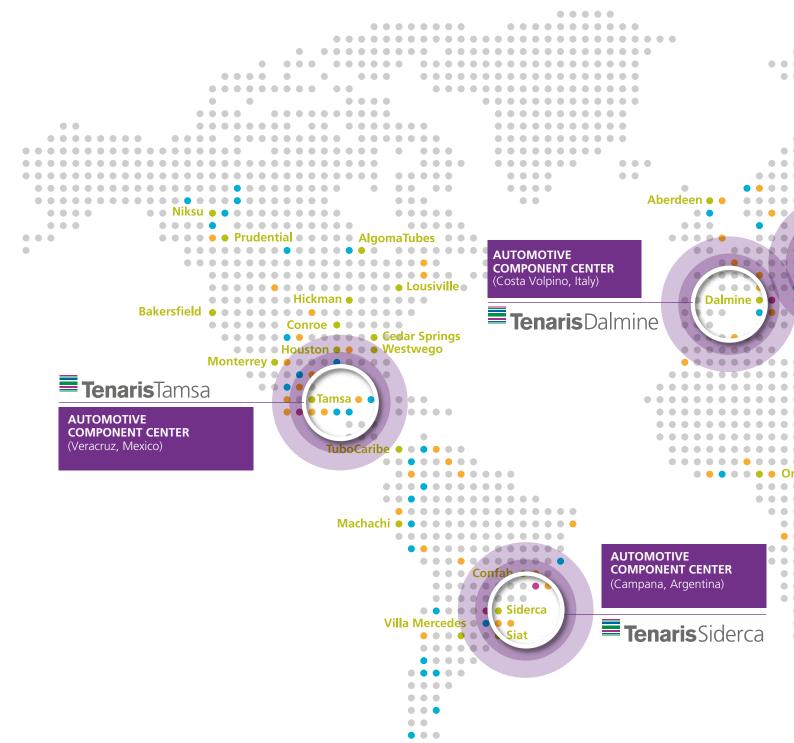
Cold and hot forming operations

Outsourced value added cutting and machining operations Other secondary operations such as hole drilling and punching, all according to customer's specifications and design Non-Destructive Tests (customized techniques)

Worldwide logistics and component centers

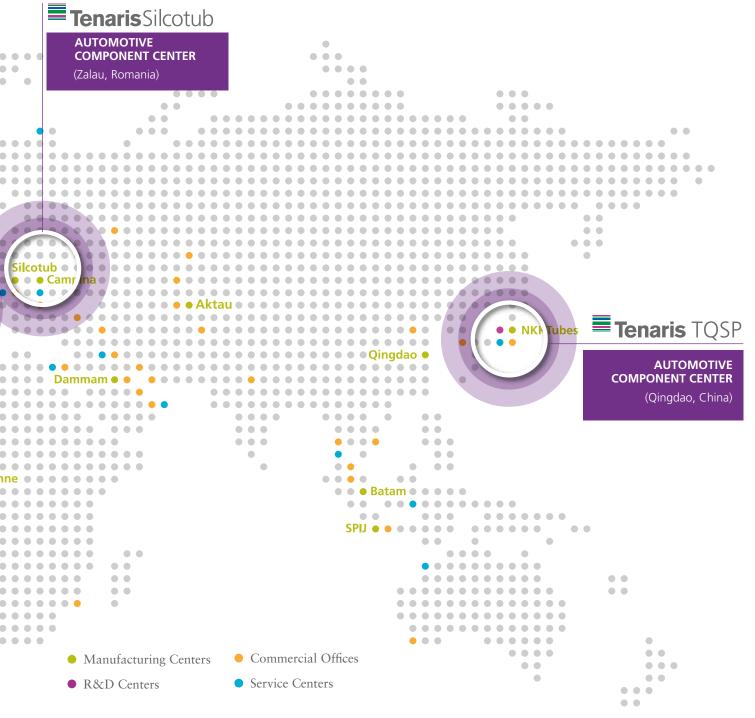
To address the most demanding requests for efficient logistics, Tenaris has service centers dedicated to exclusively serve the automotive sector in Europe, North and South America, Asia, in some cases close to the customer's manufacturing plant.

Tenaris manufactures and supplies automotive products with a guarantee of 100% on-time delivery performance, minimizing customer's stocking costs.



Finished products are also provided in special packaging to streamline the customer's assembly line and to lower assembly costs.

Tenaris provides just-in-time delivery and component traceability and documentation, in order to supply customers a final product entirely consistent with their requests, regardless of the production site where it has been produced.



Research and development

By sharing knowledge and resources, we're able to improve our range of customized products to meet today's and tomorrow's needs.

By sharing knowledge and resources across our mills and R&D centers in Italy, USA, Argentina, Mexico and Japan we're able to improve our range of customized products to meet today's and tomorrow's needs.

Research activity is dedicated to improve formability and machinability of materials and to develop engineering properties such as yield, toughness and fatigue resistance in the most severe working conditions.

Tenaris's R&D centers are equipped with state-of-the-art technologies and can provide:

- Customized steel design
- Hot and cold forming testing
- Advanced computer modeling of processes and products
- Structural integrity
- Full-scale testing
- Advanced non-destructive testing techniques and optical measurement devices
- Welding metallurgy and technology
- Surface engineering
- CAD design and virtual prototyping
- Product and process modeling/simulation



5 R&D CENTERS IN ARGENTINA, ITALY, JAPAN, MEXICO & BRAZIL ABOUT 360 RESEARCHERS COLLABORATION
WITH EXTERNAL
R&D LABORATORIES
TESTING CENTERS
AND UNIVERSITIES

QUALITY STANDARDS AND CERTIFICATIONS

Tenaris holds the IATF 16949 certification for its automotive products manufacturing facilities

The IATF certification applies to:

- Cold drawn facilities in Italy, Romania, Argentina and Mexico
- Hot rolling facility at the Arcore plant in Italy
- Tenaris automotive components centers in Italy, Argentina, Mexico, Romania, China

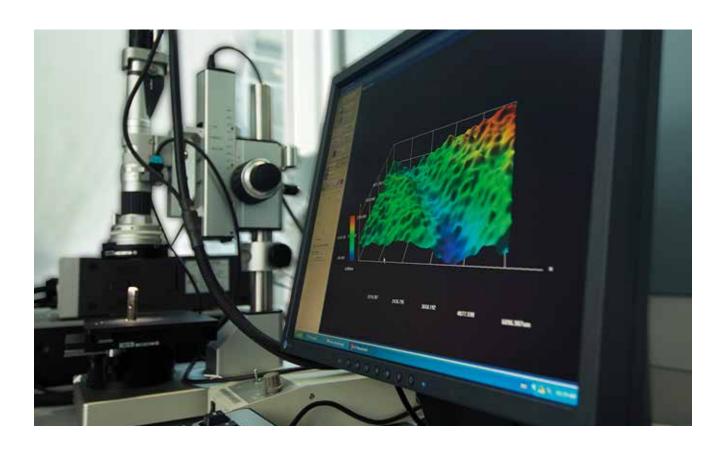
TECHNICAL ASSISTANCE

Tenaris technicians work side-by-side with customers, providing prompt responses and effective solutions in terms of:

Planning are integral part of the Tenaris Quality System, becoming tools for planning and managing real-time production processes, with the aim of preventing defects and reducing variance.

The goal of continual improvement of product quality and customer service is an integral part of the Tenaris culture, with the objective of exceeding the high standards demanded by the automotive market. In particular, the methodologies typical of Advanced Product Quality

- Material properties
- Component optimization
- Process optimization
- Cost effectiveness



Towards the future of sustainable steel

TENARIS'S COMMITMENT TO THE ENVIRONMENT

Develop a long-term sustainable business model

Prevent pollution and use resources more efficiently

Minimize the environmental impact of our products and services

KEY ACTIONS

REDUCED AIR EMISSIONS



Low NOx emission combustion systems and advanced filtration systems RESOURCE SAVINGS



Advanced systems to recycle energy, waste and industrial water ENVIRONMENTAL MANAGEMENT SYSTEMS



ISO 14001 certified environmental management system ENVIRONMENTAL PRODUCT DECLARATIONS



SYSTEM CERTIFICATIONS

ISO 9001:2008

Quality Management System ISO 14001:2015

Environmental Management System OHSAS 18001:2007

Health & Safety Management System ISO 50001:2011

Energy Management System

TRANSPARENCY COMES FIRST

Tenaris uses Life Cycle Assessment to ev aluate its products environmental impacts throughout the life cycle



Tenaris highlights

MARKET SEGMENTS

Leading global manufacturer and supplier of tubular products and services used in:



OCTG



Hydrocarbon Processing



Premium Connections



Power Generation



Line Pipe for Offshore and Onshore applications



Industrial & Automotive





For further information www.tenaris.com

For assistance please contact automotive@tenaris.com





