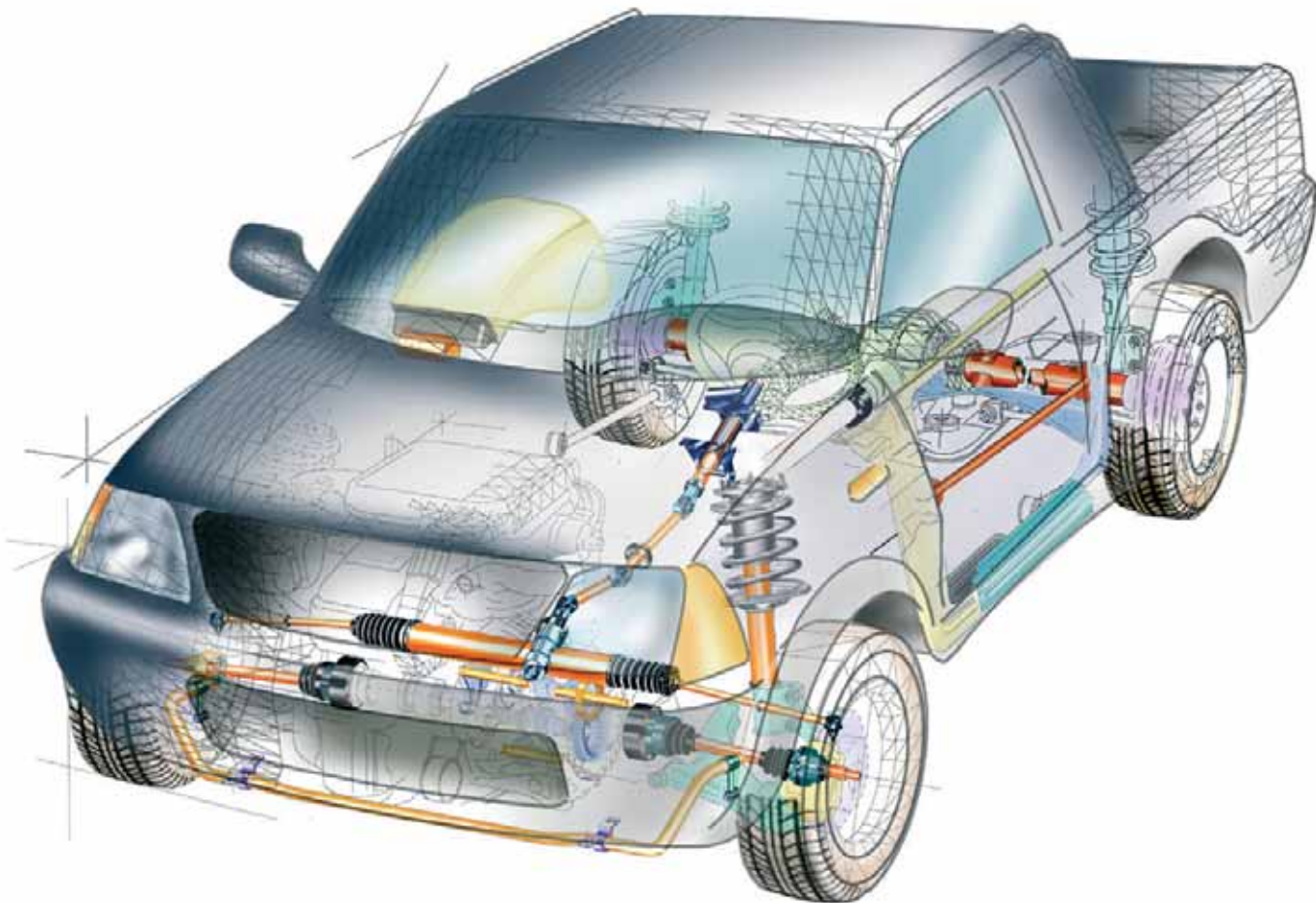




Industrial & Automotive
Services

Global solutions for the automotive industry



Tenaris

Tubular technologies. Innovative Services

Tenaris is a leading global manufacturer of seamless steel pipe products and provider of pipe handling, stocking and distribution services to the oil and gas, energy and mechanical industries.

Customers include a majority of the world's primary oil and gas companies, as well as a large number of principal engineering and industrial companies. Tenaris is also a top regional supplier of welded steel pipes for gas

pipelines in South America. Annual worldwide manufacturing capacity is 3,320 million tons of seamless and 850,000 tons of welded pipe.

In addition to operating manufacturing facilities in Argentina, Brazil, Canada, Italy, Japan, Mexico, Romania and Venezuela, Tenaris fields a broad network of customer service centers in more than 20 countries worldwide to address the specific needs of

its customers. With this infrastructure, Tenaris offers its customers a high degree of service, integrating manufacturing, procurement, distribution and on-time delivery of high quality products throughout the world.

Tenaris operates at a global level with 4 divisions dedicated to specific market sectors: Industrial & Automotive Services, Oilfield Services, Pipeline Services, and Process & Power Plant Services.





Tenaris Industrial&Automotive Services

Dedicated to maximizing production process efficiency and cost-effectiveness

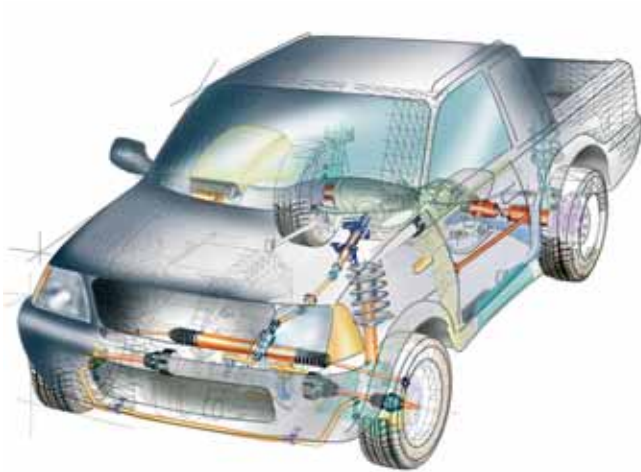
Industrial & Automotive Services is dedicated to providing high quality industrial and automotive products and services around the world. Tenaris's goal is to develop integrated solutions for its customers and to achieve recognition as one of the world's foremost suppliers of seamless tube-based components to the automotive sector. The aim is to add value by streamlining the customer's

supply chain, permitting greater focus on core operations. Compared to bars, seamless tubes allow high precision while reducing total weight and guaranteeing excellent performance with low gas consumption. A dedicated organization based in Europe, Nafta and Mercosur is structured to meet the customer's needs by manufacturing and supplying on a just-in-time

basis, adding more service content and developing innovative products. Additionally, the recent acquisition of Silcotub, the leading Romanian producer of small diameter seamless pipes for OCTG and other mechanical applications will allow to better serve the Eastern Europe automotive needs.

Products & Operations

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



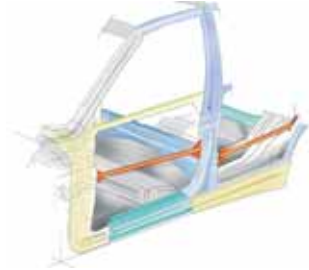
Tenaris seamless tubular products and services for automotive applications include:

- 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
- Friction welding
- Other secondary operations such as hole drilling, punching and reaming, all according to customer's specifications and design
- Outsourced value added cutting and machining operations

Global solutions

Safety

Door Impact Beams



Airbag Inflator Vessels

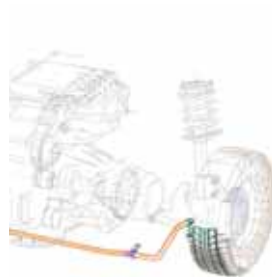


Steering, Chassis & Suspension

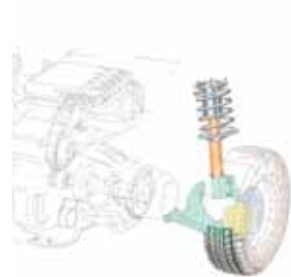
Steering Columns
Steering Boxes
Tie Rods
Torsion Bars



Stabilizer Bars

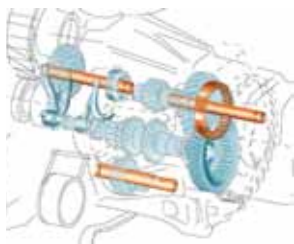


Shock Absorbers

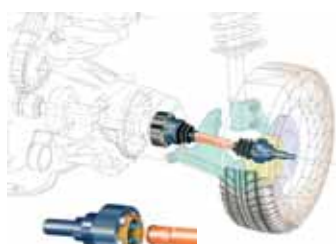


Transmission and Powertrain

Ring and Planetary Gears
Gear Shafts

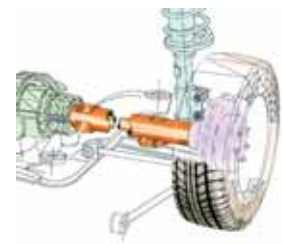


Front Wheel Drive Shafts
Constant Velocity Joint Cages



Rear Powertrain Module

Rear Wheel Drive Shafts
Rear Axle Housings



Heavy Truck and Trailer

Trailer Axles
Suspension Arms



Research and development



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

Tenaris has a centrally coordinated product development program, carried out at the mills and R&D institutes worldwide. Applied research is performed in partnership with some of the most recognised world's leading universities, such as

Politecnico of Milan and Pittsburgh University, and with Tenaris's two excellent R&D center, CINI in Argentina and CSM in Italy.

and to develop engineering properties such as yield, toughness and fatigue resistance in the most severe working conditions.

Research activity is dedicated to improve formability and machinability of materials

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



- Customized steel design
- Hot and cold forming testing
- Several welding technologies testing
- Full-scale testing
- Surface engineering
- CAD design and virtual prototyping
- Product and process modeling/simulation

Technical Assistance

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

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



Quality standards & testing

In addition to achieving QS 9000 certification in 1997, in November 2003 Tenaris received the ISO TS16949 certification for its automotive products manufacturing facilities. Tenaris was one of the few steel companies to

receive this certification, which groups together the requirements of the automotive products providers.

The ISO TS16949 certification applies to:

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

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 Planning have been implemented in the Tenaris Quality System, becoming tools for planning and managing real-time production processes, with the aim of preventing defects and reducing variance.





Worldwide logistics

Flexibility and short time response

- JIT delivery programs
- Stocking and consignment programs
- Delivery straight to dock

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, 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.



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