

Global Steel Line Pipe for Long-Distance Hydrogen Transmission Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Steel Line Pipe for Long-Distance Hydrogen Transmission market size was valued at US\$ 78.20 million in 2025 and is forecast to a readjusted size of US\$ 429 million by 2032 with a CAGR of 27.4% during review period.

Steel line pipe for long-distance hydrogen transmission refers to carbon-steel or low-alloy steel line pipe designed for onshore or offshore trunk pipelines transporting gaseous hydrogen over long distances and across regions. Products are manufactured through longitudinal submerged arc welding, helical submerged arc welding, high-frequency electric-resistance welding or seamless production routes. In 2025, global shipments of Steel Line Pipe for Long-Distance Hydrogen Transmission are estimated at 40,000 tons, with an average FOB price of approximately US\$1,900 per ton, resulting in a market size of approximately US\$76 million.

The hydrogen transmission steel pipe market is evolving from short captive pipelines within refineries and chemical plants toward regional industrial networks, dedicated pure-hydrogen trunk lines and hydrogen-blended natural-gas systems. Direct-reduced iron, refining, ammonia, methanol, synthetic-fuel and underground-storage projects require stable, high-volume hydrogen supply. Once transmission volume and distance reach sufficient scale, pipelines can provide stronger economies of scale than compressed-gas road transportation. China's introduction of a dedicated national standard indicates that hydrogen transmission steel pipe is beginning to develop into an independent product category with its own material-design, manufacturing, testing and acceptance requirements.

Demand will develop through two parallel routes: pure-hydrogen transmission and hydrogen-blended natural-gas transportation. Blended systems can make partial use of existing natural-gas infrastructure and are more likely to generate near-term demonstration and procurement demand. Dedicated pure-hydrogen pipelines will serve refineries, steel plants, chemical facilities and storage sites, but require stricter control of material cleanliness, weld properties, fatigue-crack growth and pressure-cycle performance. Commercial deployment of hydrogen-qualified X52M and other line-pipe grades demonstrates that the market is moving beyond laboratory testing toward full-scale engineering validation.

Expansion remains constrained by project economics, long-term hydrogen offtake agreements and uncertain network utilisation. Less than 6% of announced hydrogen pipeline length had reached final investment decision by 2025, while a significant share of Europe's planned network is expected to rely on repurposed gas infrastructure rather than newly manufactured pipe. Competitive advantage will therefore depend less on nominal steelmaking capacity and more on hydrogen-environment testing, weld and heat-affected-zone performance, large-diameter HFW and LSAW manufacturing, high-pressure seamless-pipe capability, coating and bending services, and full product traceability.

This report is a detailed and comprehensive analysis for global Steel Line Pipe for Long-Distance Hydrogen Transmission market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Steel Line Pipe for Long-Distance Hydrogen Transmission market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Steel Line Pipe for Long-Distance Hydrogen Transmission market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Steel Line Pipe for Long-Distance Hydrogen Transmission market size and

forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Steel Line Pipe for Long-Distance Hydrogen Transmission market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Steel Line Pipe for Long-Distance Hydrogen Transmission

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Steel Line Pipe for Long-Distance Hydrogen Transmission market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Corinth Pipeworks S.A., Tenaris S.A., Mannesmann Line Pipe GmbH, Mannesmann Grossrohr GmbH, ArcelorMittal Tubular Products, Tata Steel Limited, Welspun Corp Limited, Vallourec S.A., EUROPIPE GmbH, JFE Steel Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Steel Line Pipe for Long-Distance Hydrogen Transmission market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Longitudinal Submerged Arc-Welded Pipe

Helical Submerged Arc-Welded Pipe

Seamless Line Pipe

Market segment by Design Pressure

?4 Mpa

4 Mpa-7 MPa

7 Mpa-10 MPa

?10 MPa

Market segment by Outside Diameter

?406.4 mm

406.4 mm-610 mm

610 mm-813 mm

?813 mm

Market segment by Application

Hydrogen Production Base Export Pipelines

Regional and Interregional Hydrogen Backbone Pipelines

Hydrogen Storage Facility Connection Pipelines

Others

Major players covered

Corinth Pipeworks S.A.

Tenaris S.A.

Mannesmann Line Pipe GmbH

Mannesmann Grossrohr GmbH

ArcelorMittal Tubular Products

Tata Steel Limited

Welspun Corp Limited

Vallourec S.A.

EUROPIPE GmbH

JFE Steel Corporation

Jindal Pipe USA, Inc.

Julong Steel Pipe Co.,Ltd.

Baoji Petroleum Steel Pipe Co., Ltd.

Baoshan Iron & Steel Co.,Ltd.

Zhejiang Kingland Pipeline and Technologies Co.,Ltd.

Sinopec Oilfield Equipment Corporation

Inner Mongolian Baotou Steel Union Co.,Ltd.

Zhangjiagang Shagang Jinzhou Pipeline Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Steel Line Pipe for Long-Distance Hydrogen Transmission product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Steel Line Pipe for Long-Distance Hydrogen Transmission, with price, sales quantity, revenue, and global market share of Steel Line Pipe for Long-Distance Hydrogen Transmission from 2021 to 2026.

Chapter 3, the Steel Line Pipe for Long-Distance Hydrogen Transmission competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Steel Line Pipe for Long-Distance Hydrogen Transmission breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Steel Line Pipe for Long-Distance Hydrogen Transmission market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Steel Line Pipe for Long-Distance Hydrogen Transmission.

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