

Global Hydrogen Transportation RTP Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrogen Transportation RTP market size is expected to reach \$ 48.92 million by 2032, rising at a market growth of 42.3% CAGR during the forecast period (2026-2032).

Hydrogen Transportation RTP is a spoolable composite pressure-pipe system consisting of a thermoplastic liner serving as the hydrogen sealing and fluid-contact layer, a load-bearing reinforcement layer made from aramid fiber, glass fiber, polyester fiber, carbon fiber, steel cord or hybrid reinforcement, a thermoplastic outer sheath, dedicated end fittings and, where required, a hydrogen-barrier layer. Typical products incorporate a liner, barrier layer, reinforcement layer and external protection layer and are used for gathering, distribution and short- to medium-distance transmission of gaseous pure hydrogen or hydrogen?natural gas blends.

In 2025, the global shipment length of Hydrogen Transportation RTP is expected to be approximately 8 kilometers, with an average FOB price of approximately US\$500 per meter and a manufacturing gross margin of approximately 25% to 35%.

Near-term opportunities for hydrogen-service RTP are concentrated in distributed green-hydrogen projects, short- and medium-distance export lines between electrolyzers and industrial users, branch networks within chemical parks and hydrogen hubs, and regional supply pipelines serving hydrogen terminals and refueling stations. Continuous reel or coil delivery reduces field joints, welding, nondestructive inspection, heavy lifting and corrosion-protection requirements.

Competitive differentiation depends on the coordinated performance of the hydrogen barrier or low-permeability liner, the long-term load-bearing reinforcement and the

proprietary end-fitting system. Metallic foil barriers offer very low permeation but require careful control during winding, bending and installation. EVOH and multilayer polymer barriers are more compatible with high-volume manufacturing but can be affected by temperature, humidity and aging. Engineering-polymer liners such as PA, PVDF and PPS offer lower intrinsic permeability but involve higher material and processing costs.

The principal constraints remain limited commercial project volume, insufficient long-term hydrogen-permeation data, rapid-gas-decompression damage, liner?reinforcement delamination, cyclic-pressure fatigue and deterioration of fitting seals. RTP is therefore more likely to commercialize first in regional distribution, industrial-park networks and difficult-installation environments than in very large-diameter, cross-regional trunk pipelines.

This report studies the global Hydrogen Transportation RTP production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen Transportation RTP and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydrogen Transportation RTP that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrogen Transportation RTP total production and demand, 2021-2032, (K Meter)

Global Hydrogen Transportation RTP total production value, 2021-2032, (USD Million)

Global Hydrogen Transportation RTP production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global Hydrogen Transportation RTP consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: Hydrogen Transportation RTP domestic production, consumption, key domestic manufacturers and share

Global Hydrogen Transportation RTP production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global Hydrogen Transportation RTP production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global Hydrogen Transportation RTP production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global Hydrogen Transportation RTP market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SoluForce B.V., Baker Hughes Company, NOV Inc., Shandong Donghong Pipe Industry Co., Ltd., Lesso, Baoji Tianlian Huitong Composite Materials Co., Ltd., Xinjiang PetroChina Tubular Engineering Co., Ltd., Gongqingcheng Ruitai Pipe Technology Co., Ltd., Jiangsu Zhengdao Marine Technology Co., Ltd., Ningbo OPR Offshore Engineering Equipment Co., Ltd., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydrogen Transportation RTP market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (US\$/Meter) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Hydrogen Transportation RTP Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen Transportation RTP Market, Segmentation by Type:

Bonded RTP

Unbonded RTP

Others

Global Hydrogen Transportation RTP Market, Segmentation by Rated Maximum Operating Pressure for Hydrogen Service:

≤4.0 Mpa

4.0 Mpa-6.3 MPa

6.3 Mpa-10.0 MPa

Others

Global Hydrogen Transportation RTP Market, Segmentation by Primary Reinforcement Material:

Aramid Fiber Reinforcement

Glass Fiber Reinforcement

Polyester Fiber Reinforcement

Steel Cord Reinforcement

Others

Global Hydrogen Transportation RTP Market, Segmentation by Application:

Onshore Buried Installation

Aboveground and Plant Installation

Shallow-Water and Offshore Static Installation

Others

Companies Profiled:

SoluForce B.V.

Baker Hughes Company

NOV Inc.

Shandong Donghong Pipe Industry Co., Ltd.

Lesso

Baoji Tianlian Huitong Composite Materials Co., Ltd.

Xinjiang PetroChina Tubular Engineering Co., Ltd.

Gongqingcheng Ruitai Pipe Technology Co., Ltd.

Jiangsu Zhengdao Marine Technology Co., Ltd.

Ningbo OPR Offshore Engineering Equipment Co., Ltd.

Hebei Yutong Special Rubber Hose Co., Ltd.

Goldstone Tubos

Key Questions Answered:

1. How big is the global Hydrogen Transportation RTP market?
2. What is the demand of the global Hydrogen Transportation RTP market?
3. What is the year over year growth of the global Hydrogen Transportation RTP market?
4. What is the production and production value of the global Hydrogen Transportation RTP market?
5. Who are the key producers in the global Hydrogen Transportation RTP market?
6. What are the growth factors driving the market demand?

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