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Global High Pressure Gas Transport Truck Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GA04D1953DC9EN.html
Date: November 2026
Pages: 121
Price: US$ 4,480.00 (Single User License)
ID: GA04D1953DC9EN

Abstracts

The global High Pressure Gas Transport Truck market size is expected to reach $ 767 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

The structure of the high-pressure gas transport truck is the front part and the trailer part. The former provides power, and the latter mainly provides storage space. It consists of 6-12 high-pressure storage cylinders with a pressure of 20-52Mpa and a length of about 10m. The cylinders pass through the frame and travel. The device is connected or directly fixed with the walking device, connected by valves and pipelines, and the head of the trailer can be separated from the trailer after reaching the refueling station. The transportation technology is mature, and the specifications are relatively complete. Currently, hydrogen refueling stations mostly use this method. transportation.

Taking high-pressure hydrogen as an example, due to the small density of hydrogen and the heavy weight of the hydrogen storage container, the weight of the transported hydrogen only accounts for 1-2% of the total transport weight. Therefore, the long-tube trailer for hydrogen transportation is only suitable for scenarios with a short transportation distance (transportation radius of 200 kilometers) and a low transportation volume. To ensure the hydrogen supply, the number of trailers required by the hydrogen refueling station increases correspondingly with the increase of the distance: when the distance is less than 50km, only one trailer can meet the hydrogen supply of the day, and 2 trailers are required for the distance of 50~300km. After 300km, 3 trailers are required.

The working process is as follows: the purified product hydrogen is compressed to 20MPa by the compressor, loaded into the long-tube trailer through the gas column, and

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transported to the destination, the hydrogen-loaded tube bundle is separated from the front of the car, and the gas column is discharged through the unloading column and pressure regulation. The hydrogen in the tube bundle is discharged into the high-pressure, medium-pressure and low-pressure hydrogen storage tanks of the hydrogen refueling station for hierarchical storage. The transport efficiency of this method is low. Domestic standards stipulate that the nominal working pressure of long-tube trailer gas cylinders is 10-30MPa, and the gas cylinders for transporting hydrogen are mostly 20MPa.

High-Pressure Gas Transport Trucks (HPG Trucks) are specialized vehicles that utilize high-pressure gas cylinders, long tubing bundles, composite pressure vessels, or multi-gas containers (MEGCs) as storage and transportation units to deliver compressed gases in bulk via road transport. Their primary transport media include hydrogen, natural gas/methane, helium, nitrogen, oxygen, argon, hydrochloric acid, and some electronic specialty gases. Compressed hydrogen transport has seen the most significant market growth in recent years.

The most important market shift for HPG Trucks in the future will come from the construction of global hydrogen energy infrastructure. For a considerable period, there will still be a significant geographical mismatch between hydrogen production and consumption. Dedicated hydrogen pipelines require substantial fixed investment and stable, large-scale demand. Therefore, in the early stages of industry development, for short-to-medium distance delivery, and for decentralized end-user applications, tubing bundle trucks will remain a crucial logistics method connecting hydrogen production plants, refueling stations, industrial users, and regional hydrogen storage facilities. Especially when green hydrogen projects, regional Hydrogen Hubs, refueling stations, and fuel cell heavy-duty truck applications have not yet reached a sufficient scale to support dedicated hydrogen pipelines, high-pressure tubing bundle trucks offer advantages such as flexible investment, rapid deployment, adjustable routes, and direct use as mobile hydrogen storage units.

Technically, high-pressure gas transport trucks are undergoing a clear upgrade from traditional Type I all-steel cylinders to Type III/Type IV composite pressure vessels. Traditional long steel cylinders offer advantages such as mature technology, lower cost, and a well-established maintenance system, but their heavy weight occupies a significant portion of the vehicle's legal load, limiting the actual gas capacity. Type III typically uses a metal liner with a fully wrapped carbon fiber structure, while Type IV further utilizes a polymer liner and carbon fiber composite materials, significantly reducing the pressure vessel's weight and allowing for the transport of more gas within

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the same road weight limits.

Report Scope

This report studies the global High Pressure Gas Transport Truck production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Pressure Gas Transport Truck 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 High Pressure Gas Transport Truck that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Pressure Gas Transport Truck total production and demand, 2021-2032, (Units)

Global High Pressure Gas Transport Truck total production value, 2021-2032, (USD Million)

Global High Pressure Gas Transport Truck production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global High Pressure Gas Transport Truck consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: High Pressure Gas Transport Truck domestic production, consumption, key domestic manufacturers and share

Global High Pressure Gas Transport Truck production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global High Pressure Gas Transport Truck production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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Global High Pressure Gas Transport Truck production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global High Pressure Gas Transport Truck 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 CIMC ENRIC, DS Aether CT, FIBA Technologies, Luxi New Energy Equipment, City Machine & Welding, Weldship, Zhejiang Rein Hytec, Shandong Sinoma Dali Special Vehicle Manufacturing, CATEC Gases, Suzhou Sinoma Science & Technology, 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 High Pressure Gas Transport Truck market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) 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 High Pressure Gas Transport Truck Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Market Segmentation

Global High Pressure Gas Transport Truck Market, Segmentation by Type:

6 Tubes

8 Tubes

9 Tubes

10 Tubes

12 Tubes

Others

Global High Pressure Gas Transport Truck Market, Segmentation by Transport Gas:

Hydrogen

CNG/Methane

Helium

Electronic & Specialty Gases

Others

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Global High Pressure Gas Transport Truck Market, Segmentation by Container Type:

Type I

Type II

Type III

Type IV

Global High Pressure Gas Transport Truck Market, Segmentation by Application:

Gas Manufacturing Company

Logistics Transportation and Leasing Company

Companies Profiled:

CIMC ENRIC

DS Aether CT

FIBA Technologies

Luxi New Energy Equipment

City Machine & Welding

Weldship

Zhejiang Rein Hytec

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Shandong Sinoma Dali Special Vehicle Manufacturing

CATEC Gases

Suzhou Sinoma Science & Technology

Western Group

Calvera Hydrogen

NPROXX

Key Questions Answered

1. How big is the global High Pressure Gas Transport Truck market?
2. What is the demand of the global High Pressure Gas Transport Truck market?
3. What is the year over year growth of the global High Pressure Gas Transport Truck market?
4. What is the total value of the global High Pressure Gas Transport Truck market?
5. Who are the Major Players in the global High Pressure Gas Transport Truck market?
6. What are the growth factors driving the market demand?

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