

Global Composite Cylinders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Composite Cylinders market size is expected to reach \$ 2197 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

Composite Cylinders are pressure vessels made with a composite reinforcement structure around a liner or pressure-retaining body, designed to store and convey compressed or liquefied gases with lower weight than conventional all-metal cylinders. Weight reduction directly improves vehicle range, gas payload, transport efficiency, operator handling, and the feasibility of high-pressure hydrogen, CNG, SCBA, medical oxygen, industrial gas, and LPG applications.

The upstream supply chain is built around carbon fiber, glass fiber, aramid fiber, thermoplastic or metallic liners, epoxy or other resin systems, bosses, protective coatings, and pressure-vessel certification capability. Carbon fiber supply is strategically important for high-pressure hydrogen and SCBA cylinders because fiber cost, tensile performance, winding efficiency, and certification yield determine both product weight and cost. Glass fiber remains important in low-pressure LPG cylinders and large Type IV vessels where economics and corrosion resistance matter more than extreme gravimetric performance. Downstream buyers include vehicle OEMs, fuel-system integrators, gas distributors, LPG marketers, hydrogen infrastructure developers, firefighting equipment suppliers, medical gas suppliers, industrial gas companies, and bulk gas logistics operators. Procurement is usually handled through qualification-based long-term supply contracts, annual framework agreements, OEM platform awards, public tenders, fleet conversion projects, and project-based orders for hydrogen infrastructure or mobile pipeline modules.

In the current market, global production of Composite Cylinders is around 8,750,000

Units, with an average selling price of about 172 USD per Unit EXW basis. The global market is structurally mixed: LPG composite cylinders provide most of the unit volume at low ASP, while hydrogen cylinders, CNG/RNG Type IV cylinders, bulk transport vessels, and SCBA cylinders provide most of the value uplift. Top 5 suppliers control approximately 34.5% of global revenue CR5, indicating a moderately concentrated market rather than a single-route oligopoly. Demand is concentrated in Europe, North America, China, and India-led Indo-Pacific, with China and Europe carrying higher ASP because of hydrogen mobility and infrastructure, while India and other developing markets carry higher unit volumes through LPG composite cylinders. A typical industry gross margin estimate is 27.5%, supported by certification barriers, proprietary liner design, winding process control, pressure-cycle testing, fiber procurement, customer qualification, and liability management. Through 2026 to 2032, growth should be driven by hydrogen mobility, renewable gas distribution, stricter safety and weight regulations, replacement of metal cylinders, decarbonization pressure, and gradual cost reduction in carbon fiber and automated winding. AI-enabled inspection, digital traceability, burst-risk screening, and production yield control are likely to become more visible, especially in high-pressure hydrogen cylinders. Key bottlenecks remain carbon fiber cost, certification lead time, pressure-cycle validation, hydrogen permeation control, liner-boss interface durability, and the slow replacement cycle of installed cylinder fleets.

This report studies the global Composite Cylinders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Composite Cylinders 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 Composite Cylinders that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Composite Cylinders total production and demand, 2021-2032, (K Units)

Global Composite Cylinders total production value, 2021-2032, (USD Million)

Global Composite Cylinders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Composite Cylinders consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Composite Cylinders domestic production, consumption, key domestic manufacturers and share

Global Composite Cylinders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Composite Cylinders production by Cylinder Architecture, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Composite Cylinders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Composite Cylinders 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 Hexagon Composites, Worthington Enterprises, Luxfer Holdings, Hexagon Purus, Time Technoplast, Sinoma Science & Technology Suzhou, FORVIA, Faber Industrie, NPROXX, OPmobility, 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 Composite Cylinders market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Cylinder Architecture, 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 Composite Cylinders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Composite Cylinders Market, Segmentation by Cylinder Architecture:

Type II Hoop-Wrapped Metal-Liner Cylinders

Type III Fully-Wrapped Metal-Liner Cylinders

Type IV Fully-Wrapped Polymer-Liner Cylinders

Other Composite Cylinders

Global Composite Cylinders Market, Segmentation by Reinforcement Fiber:

Carbon Fiber Cylinders

Glass Fiber Cylinders

Other Fiber Cylinders

Global Composite Cylinders Market, Segmentation by Pressure Class:

Low Pressure Cylinders

Medium Pressure Cylinders

High Pressure Cylinders

Ultra-High Pressure Cylinders

Global Composite Cylinders Market, Segmentation by Application:

Mobility Fuel Storage

Hydrogen Infrastructure

Bulk Gas Transport

Industrial Gas Supply

Breathing Apparatus

LPG Cooking Heating

Medical Specialty Gas

Companies Profiled:

Hexagon Composites

Worthington Enterprises

Luxfer Holdings

Hexagon Purus

Time Technoplast

Sinoma Science & Technology Suzhou

FORVIA

Faber Industrie

NPROXX

OPmobility

Umoe Advanced Composites

Quantum Fuel Systems

Supreme Industries

Toyoda Gosei

ILJIN Hysolus

Steelhead Composites

CP Industries

Everest Kanto Cylinder

Beijing Tianhai Industry

Jiangsu Guofu Hydrogen Energy Equipment

FTXT Energy Technology

CIMC-Hexagon Hydrogen Energy Technology

Hangzhou OPR Offshore Engineering

Shenyang Zhongfu-Kejin Pressure Vessel

Santek

Key Questions Answered:

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

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