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Composite Cylinder Market Forecasts to 2032 – Global Analysis By Tank Type (Type II, Type III and Type IV), Cylinder Type (LPG Cylinders, CNG Cylinders, Hydrogen Cylinders and Other Cylinder Types), Material Type, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Composite Cylinder Market is accounted for $1.07 billion in 2025 and is expected to reach $1.62 billion by 2032 growing at a CAGR of 6.10% during the forecast period. Composite cylinders are sophisticated pressure vessels composed of aramid fiber, fiberglass, or carbon fiber encircled by a polymer or metal liner. In addition to having great strength and resistance to corrosion, these cylinders are substantially lighter than conventional steel cylinders. Composite cylinders offer improved safety and performance and are frequently utilized in applications like medical oxygen storage, breathing apparatuses, firefighting, and alternative fuel vehicles (such as CNG or hydrogen-powered vehicles). Moreover, they are perfect for both personal and professional use in demanding environments because of their lightweight design, which increases portability and fuel efficiency.

According to the BDLI, Germany's aerospace sector achieved total sales of $37 billion in 2021, with civil aviation accounting for approximately $26 billion. Composite carbon fiber cylinders are increasingly utilized in aircraft for storing emergency equipment such as life rafts, oxygen systems, and firefighting gear, emphasizing their critical role in aviation safety and efficiency.

Market Dynamics:

Driver:

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Rise in alternative fuel automobiles

The demand for composite cylinders is rising sharply as a result of the global movement toward greener transportation options. Vehicles that run on hydrogen and compressed natural gas (CNG) are becoming more popular as nations impose stricter emission standards and carbon neutrality goals. Because composite cylinders can store gases at extremely high pressures (usually 350 to 700 bar) without adding undue weight to the vehicle, they are especially well-suited for these applications. Additionally, composite tanks are the only practical storage solution for hydrogen fuel cell electric vehicles (FCEVs) that satisfies safety and performance standards.

Restraint:

High composite cylinder initial cost

The high initial cost of composite cylinders in comparison to conventional steel or aluminum cylinders is one of the biggest obstacles to their widespread adoption. The materials used, like aramid and carbon fiber, are much more costly, and the manufacturing process is more intricate, requiring premium resins and precise winding. Although the weight savings, durability, and safety of these cylinders provide long-term cost advantages, the initial outlay is prohibitive, particularly for price-sensitive markets like residential LPG use in developing nations. Furthermore, despite the long-term operational savings, fleet operators or public procurement agencies in emerging economies with limited funding may find it challenging to defend the initial capital investment.

Opportunity:

Adoption for domestic use in emerging economies

The domestic fuel supply systems of emerging economies in Asia, Africa, and Latin America are modernizing and urbanizing at a rapid pace. Governments and public sector organizations are aggressively substituting safer, lighter, and easier-to-use composite LPG cylinders for conventional steel ones. For instance, Indian oil marketing companies are progressively introducing composite LPG cylinders for urban households, which offer advantages like visible fuel levels, corrosion-proof design, and explosion resistance. As governments promote clean cooking fuels through programs like Africa Clean Cooking Energy Solutions and Pradhan Mantri Ujjwala Yojana (India), there is a sizable unexplored market for composite LPG cylinders, especially among

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rural and peri-urban first-time fuel users.

Threat:

Competition from conventional aluminum and steel cylinders

Traditional steel and aluminum cylinders still rule the market in many areas because of their lower cost, well-established infrastructure, and broad user familiarity, even with the technical benefits of composite cylinders. The cost difference may be greater than the advantages of composite cylinders in terms of performance and safety for consumers in price-sensitive markets, particularly for small-scale commercial or residential LPG use. Furthermore, the extensive worldwide network of metal cylinder suppliers, recyclers, and repairers sustains a thriving ecosystem that composite substitutes will find difficult to quickly replace. A major obstacle to market penetration is still the established position of steel and aluminum cylinders, particularly in developing nations and rural regions.

Covid-19 Impact:

The market for composite cylinders experienced mixed effects from the COVID-19 pandemic. The procurement of raw materials and the manufacturing of cylinders were delayed by global supply chain disruptions, factory closures, and labour shortages during lockdowns. Production lines that relied on imported fibers and resins were particularly affected. Moreover, short-term demand was slowed by brief slowdowns in industries like aerospace and automotive, which are important end users of composite cylinders. Because they were lightweight and resistant to corrosion, composite cylinders were chosen for field hospitals, emergency transport, and mobile and home-based oxygen therapy.

The LPG cylinders segment is expected to be the largest during the forecast period

The LPG cylinders segment is expected to account for the largest market share during the forecast period because of the extensive use of these in small-scale industrial, commercial, and residential applications. These cylinders are preferred over conventional steel alternatives because they are lighter, safer, and more resistant to corrosion. Under clean cooking and rural energy programs, numerous governments are encouraging the use of composite LPG cylinders, particularly in developing nations like Brazil and India. Additionally, their transparent design adds convenience by enabling users to visually monitor gas levels. This market's dominance is being driven by the need for safe and effective LPG storage solutions as urbanization and energy access

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initiatives spread throughout the world.

The carbon fiber composites segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the carbon fiber composites segment is predicted to witness the highest growth rate. Carbon fiber's remarkable strength-to-weight ratio, high tensile strength, and superior durability—which make it perfect for high-pressure composite cylinders used in the automotive, aerospace, and energy sectors—are the main drivers of this material's explosive growth. Carbon fiber composites are becoming more widely used as a result of the growing need for lightweight, high-performance materials to raise safety and fuel efficiency standards in industrial and transportation applications. This is driving the market's strong growth over the forecast period.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, driven by the oil and gas and automotive industries' expansion, the fast pace of industrialization, and the rising need for clean energy solutions. Due to growing safety concerns and government initiatives supporting lightweight, corrosion-resistant and environmentally friendly fuel storage options, composite cylinders are becoming more and more popular in countries like China and India for the storage of LPG, CNG, and hydrogen. Furthermore, Asia-Pacific is the leading market with significant growth potential in the upcoming years due to the region's increasing infrastructure development and population growth, which also increase demand for composite cylinders.

Region with highest CAGR:

Over the forecast period, the Middle East & Africa region is anticipated to exhibit the highest CAGR. Growing expenditures on oil and gas exploration, the need for safe and clean fuel storage options, and growing knowledge of cutting-edge composite technologies are the main drivers of this quick expansion. The need for lightweight, corrosion-resistant composite cylinders is also being driven by regional governments' emphasis on modernizing infrastructure and strict safety regulations for fuel storage. Moreover, the region's strong market growth is also largely due to the growing use of composite cylinders in cutting-edge applications like hydrogen storage.

Key players in the market

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Some of the key players in Composite Cylinder Market include ALAMAN Gas Cylinders Manufacturing LLC, Hexagon Composites ASA, Aburi Composites Inc, Faber Industries S.p.A, Dragerwerk AG & Co. KGaA., Luxfer Gas Cylinders Inc, Worthington Cylinders Inc, Sinoma, AMS Composite Cylinders Inc, Time Technoplast Limited, Quantum Technologies Inc, Santek Equipments Pvt Ltd, Everest Kanto Cylinder Limited, Uttam Cylinders Private Limited and BTIC America Corp.

Key Developments:

In April 2025, Drager, an international leader in medical and safety technology, has been awarded a contract by the U.S. Department of Veterans Affairs (VA) under the Non-Expendable (NX) Equipment Program. This agreement covers surgical lighting and equipment boom systems to support operating room (OR) and other environments within VA medical facilities, making them available to order via VHA's National Equipment Catalog (NEC).

In May 2024, Hexagon Composites ASA announces the signing of two definitive agreements with Worthington Enterprises. Worthington Enterprises will acquire 100% of Hexagon Ragasco at an enterprise value of NOK 1,050 million. Depending on the full year 2024 performance of Hexagon Ragasco, the value may be adjusted between minus NOK 50 million to plus NOK 100 million.

In May 2024, Luxfer Gas Cylinders announced it has been awarded a clean technology grant from Alberta Innovates Hydrogen Centre of Excellence to support the development of a new Type 4 700 bar hydrogen cylinder. Luxfer will use the Alberta Innovates grant to develop a polymer-lined high pressure hydrogen cylinder that reduces the number of components and amount of time to manufacture while also having the capability of storing gaseous pressure up to 700 bar (10,000 psi).

Tank Types Covered:

Type II

Type III

Type IV

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Cylinder Types Covered:

- LPG Cylinders
- CNG Cylinders
- Hydrogen Cylinders
- Other Cylinder Types

Material Types Covered:

- Glass Fiber Composites
- Carbon Fiber Composites
- Aramid Fiber Composites
- HDPE
- Other Material Types

End Users Covered:

- Aerospace & Defense
- Automotive & Transportation
- Marine
- Industrial
- Medical
- Pipes & Tanks

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Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific

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South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

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customization options:

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  - Comprehensive profiling of additional market players (up to 3)
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- Regional Segmentation
  - Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)
- Competitive Benchmarking
  - Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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