

Global Filament Winding Cylinders Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G0C89C4E192EEN.html>

Date: August 2026

Pages: 159

Price: US\$ 3,480.00 (Single User License)

ID: G0C89C4E192EEN

Abstracts

According to our (Global Info Research) latest study, the global Filament Winding Cylinders market size was valued at US\$ 1058 million in 2025 and is forecast to a readjusted size of US\$ 2686 million by 2032 with a CAGR of 14.4% during review period.

In 2024, global Filament Winding Cylinders production reached approximately 755.83 K units, with an average global market price of around US\$1237 per unit.

Filament winding cylinders are advanced composite pressure vessels designed to store gases at high pressures, typically used for applications such as compressed natural gas (CNG), hydrogen storage, and breathing apparatus. They are manufactured using a filament winding process, where continuous fibers—often carbon, glass, or aramid—are wound around a cylindrical liner and then cured with resin to form a lightweight, high-strength structure. These cylinders offer excellent strength-to-weight ratios, corrosion resistance, and durability, making them ideal for use in automotive, aerospace, firefighting, and industrial gas sectors.

Market Development Opportunities & Main Driving Factors

Filament winding cylinders, with advantages of high strength, lightweight structure, and corrosion resistance, are becoming core equipment in hydrogen energy, natural gas storage and transportation, aerospace, and high-pressure gas logistics. With governments worldwide promoting clean energy and carbon neutrality strategies, hydrogen fuel cell vehicles, distributed energy storage, and special industrial applications are expanding rapidly, injecting strong momentum into the market.

Brokerage reports highlight that, driven by global energy transition and upgraded safety requirements in storage and transportation, composite pressure vessels are expected to achieve rapid penetration. Meanwhile, annual reports indicate that the scaling-up of high-performance raw materials such as carbon fiber and epoxy resin, along with cost optimization, is reducing entry barriers and accelerating commercialization.

Market Challenges, Risks, & Restraints

Nevertheless, the market also faces critical challenges. First, the price volatility of high-performance carbon fiber materials remains significant, as raw materials account for a large share of production costs, potentially squeezing profitability. Second, the high standards and certification requirements in different countries increase the complexity of cross-border expansion. Stricter government regulations also require continuous R&D and quality investment to meet stringent safety and durability demands. Moreover, market concentration is relatively high, with leading players leveraging technological barriers and economies of scale, creating competitive pressure for smaller firms.

Downstream Demand Trends

In terms of downstream demand, hydrogen transportation, natural gas logistics, industrial gas storage, and aerospace & defense are emerging as the main growth drivers. In particular, the rapid scaling of hydrogen fuel cell vehicles is driving strong demand for large-capacity, high-pressure filament winding cylinders. According to government plans, investments in clean energy vehicles and energy storage will continue to expand in the coming years, providing long-term growth potential. At the same time, aerospace and defense applications are increasingly emphasizing lightweight and high-safety-grade cylinders. Overall, downstream demand is shifting from single gas applications to diversified energy and high-end equipment sectors, offering broad market prospects.

This report is a detailed and comprehensive analysis for global Filament Winding Cylinders 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 Filament Winding Cylinders market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Filament Winding Cylinders market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Filament Winding Cylinders market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Filament Winding Cylinders market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Filament Winding Cylinders

- 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 Filament Winding Cylinders 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 Hexagon Purus, Sinoma Science and Technology, Luxfer Group, Forvia, OPmobility, ILJIN Hysolus, Beijing Tianhai Industry, Toyota, Faber Industrie, GuofuHee, etc.

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

Market Segmentation

Filament Winding Cylinders 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

Type II

Type III

Type IV

Market segment by Application

Automotive and Transportation

Industrial and Medical

Energy Industry

Aerospace & Defence

Others

Major players covered

Hexagon Purus

Sinoma Science and Technology

Luxfer Group

Forvia

OPmobility

ILJIN Hysolus

Beijing Tianhai Industry

Toyota

Faber Industrie

GuofuHee

Worthington Enterprises

Quantum Fuel Systems

Anhui Clean Energy

Hengyang JinHua

NPROXX

Everest Kanto Cylinders

YOUON

Umoe Advanced Composites

CTC

Steelhead Composites

Time Technoplast

Doosan Mobility Innovation

AMS Composite Cylinders

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 Filament Winding Cylinders product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Filament Winding Cylinders, with price, sales quantity, revenue, and global market share of Filament Winding Cylinders from 2021 to 2026.

Chapter 3, the Filament Winding Cylinders competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Filament Winding Cylinders 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 Filament Winding Cylinders 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 Filament Winding Cylinders.

Chapter 14 and 15, to describe Filament Winding Cylinders sales channel, distributors, customers, research findings and conclusion.

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