

Global FRP Central Strength Member (CSM) Market Growth 2026-2032

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Abstracts

The global FRP Central Strength Member (CSM) market size is predicted to grow from US\$ 263 million in 2025 to US\$ 402 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

FRP Central Strength Member (CSM) for fiber optic cables are non-metallic load-bearing rods made from a resin matrix reinforced with continuous fibers. They mainly include GFRP, reinforced with glass fiber, and KFRP, reinforced with aramid fiber. These rods are used as central or embedded strength members in optical fiber cables to provide tensile strength, bending resistance, electrical insulation, corrosion resistance, and dimensional stability.

Market Size: In 2025, global production of FRP Central Strength Member (CSM) reached 35.90 million kilometers, with an average selling price of US\$7.5 per kilometer and total production capacity of approximately 45.00 million kilometers. **Gross Margin:** The industry gross margin is approximately 20%-30%. **Cost Structure:** Direct materials account for approximately 60%-75%, manufacturing overhead accounts for approximately 15%-25%, and labor costs account for approximately 5%-10%. **Industry Chain:** The upstream includes glass fiber yarn, aramid fiber/aramid yarn, epoxy resin/unsaturated resin, curing agents, coating materials, and other raw materials, while the downstream consists of fiber optic cable manufacturers.

The development of the global FRP Central Strength Member (CSM) market is fundamentally driven by the long-term rigid demand for global communication infrastructure construction. Broadband network upgrades and large-scale deployment of new-generation communication technologies led by governments worldwide form continuous demand transmission across the industrial chain, laying solid fundamental

support for market growth. With performance advantages from its material properties, FRP CSM replaces traditional material products in complex application scenarios, with its application scope expanding from civil communication backbone and access networks to private communication networks in multiple industries, continuously broadening the market's long-term growth boundary. The regional layout trend of the global industrial chain, coupled with technological iteration and production capacity support at the raw material end, directly affects the market supply pattern. Stable raw material supply and mature large-scale production capacity are key for market participants to build core competitiveness. Changes in the global trade environment improve regional industrial chain supporting systems, reshaping the market's regional competitive landscape. Meanwhile, the continuous upgrading of technical standards and environmental compliance requirements in the global communication industry drives product technology iteration, and products meeting higher standards and compliance rules become the core direction of market development, further raising the industry's overall competitive threshold.

LP Information, Inc. (LPI) ' newest research report, the "FRP Central Strength Member (CSM) Industry Forecast" looks at past sales and reviews total world FRP Central Strength Member (CSM) sales in 2025, providing a comprehensive analysis by region and market sector of projected FRP Central Strength Member (CSM) sales for 2026 through 2032. With FRP Central Strength Member (CSM) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world FRP Central Strength Member (CSM) industry.

This Insight Report provides a comprehensive analysis of the global FRP Central Strength Member (CSM) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on FRP Central Strength Member (CSM) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global FRP Central Strength Member (CSM) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for FRP Central Strength Member (CSM) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global FRP Central Strength

Member (CSM).

This report presents a comprehensive overview, market shares, and growth opportunities of FRP Central Strength Member (CSM) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

GFRP Strength Member

KFRP Strength Member

Segmentation by Diameter:

Diameter 5mm

Segmentation by Application:

Electric Power

Telecommunications

Rail Transit

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Coats

Fiber-Line (Avient)

IMG LLC

Runaya

Shresht Group

HTL Ltd

Roblon

JRD Fibre Composite

Polycab Telecom

Aksh OptiFibre

Jiangsu Hongbo Communication Technology

Nantong Hetai Communication Technology

PZTEST

Nantong Siber Communication

Jiangsu WELL-KNOWN

Changsha Longyuan Optical Communication Special Materials

Jiangsu Kemaite Technology Development

Shanghai Xiaobao FRP

Key Questions Addressed in this Report

What is the 10-year outlook for the global FRP Central Strength Member (CSM) market?

What factors are driving FRP Central Strength Member (CSM) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do FRP Central Strength Member (CSM) market opportunities vary by end market size?

How does FRP Central Strength Member (CSM) break out by Type, by Application?

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