

GFRP Rebar Market by Resin Type (Vinyl Ester, Epoxy), Diameter (20 mm), Tensile Strength (Low strength (1000 MPa)), Application (Highway, Bridges & Buildings, Marine Structure & Waterfront, Water Treatment Plants) & Region - Global Forecast to 2030

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Abstracts

The GFRP rebar market is estimated at USD 0.54 billion in 2025 and is projected to reach USD 0.95 billion by 2030, at a CAGR of 12.1%. Vinyl ester resin accounted for the largest share in the GFRP rebar market due to its superior corrosion resistance, especially in harsh chemical and marine environments. Its excellent mechanical properties, such as high tensile strength and flexibility, make it ideal for infrastructure applications such as bridges, tunnels, and marine structures. Additionally, vinyl ester resin offers better adhesion to glass fibers compared to other resins, enhancing the overall durability and performance of GFRP rebars. Its balance of cost-effectiveness and performance has made it the preferred choice in demanding construction projects.

“High-tensile strength segment is projected to register second-highest growth rate during forecast period.”

High tensile strength (>1000 MPa) GFRP rebars are expected to register the second-highest growth rate in the market due to their superior mechanical performance, making them ideal for heavy-load and high-stress applications such as bridges, marine structures, and industrial facilities. These rebars offer excellent resistance to corrosion, which extends the lifespan of infrastructure in aggressive environments. As

infrastructure investment increases globally, particularly in coastal and chemically exposed areas, the demand for durable and high-strength materials rises. This trend drives the growth of high tensile strength GFRP rebars as a preferred alternative to traditional steel reinforcements.

“Marine structure & waterfront application accounted for the second-largest share in the overall GFRP rebar market.”

Marine structure and waterfront application of GFRP rebar accounted for the second-largest share because of its superior corrosion resistance in hostile, saltwater environments where ordinary steel rebar rapidly corrodes. Piers, seawalls, and docks take advantage of GFRP's longevity, which extends service life enormously and lowers maintenance costs. Although more expensive initially, long-term economic benefits, such as lower lifecycle costs and reduced repairs, make GFRP rebar more appealing by the day. Moreover, increasing environmental controls and a worldwide trend toward sustainable, long-lasting infrastructure further stimulate demand in these coastal and marine markets.

“Asia Pacific is projected to register the highest growth rate in the GFRP rebar market during forecast period.”

Asia Pacific is anticipated to register the highest CAGR in the GFRP rebar market during the forecast period due to rapid urbanization and infrastructure development, particularly in countries like China, India, and Southeast Asian nations. Increasing investments in smart city projects, bridges, highways, and coastal structures are driving demand for corrosion-resistant and durable construction materials like GFRP rebars. In 2024, DS Jindal Group announced a strategic alliance to transform the Indian GFRP rebar market through collaboration with international partners and plans to establish 12 production units nationwide by 2026. Additionally, government initiatives promoting sustainable and long-lasting infrastructure solutions are boosting adoption. The region's large construction sector and cost-effective labour also support faster market expansion compared to other regions.

This study has been validated through primary interviews with industry experts globally. The primary sources have been divided into the following three categories:

By Company Type: Tier 1 - 40%, Tier 2 - 33%, and Tier 3 - 27%

By Designation: C-level - 50%, Director-level - 30%, and Managers - 20%

By Region: North America - 15%, Europe - 50%, Asia Pacific - 20%, the Middle East & Africa - 10%, and Latin America - 5%

The report provides a comprehensive analysis of the following companies:

Prominent companies in this market include Dextra Group (Thailand), Sch?ck Bauteile GmbH (Germany), Pultron Composites (New Zealand), Sireg S.P.A. (Italy), Pultrall Inc. (Canada), KODIAK Fiberglass Rebar (US), Neuvokas Corporation (US), R?chling (Germany), ARC Insulations & Insulator Ltd. (India), Jindal Advanced Materials (India), SKD Composite (India), Galen LLC (Russia), Fibrolux (Germany), FRT TUF-BAR (Canada), and Armastek (Russia).

Research Coverage

This research report categorizes the GFRP rebar market by resin type (vinyl ester, epoxy, and other resin types), diameter (oO 10mm, 10–20 mm, and > 20 mm), tensile strength (low strength (oO1000 MPa), and high strength (> 1000 MPa), application (highway, bridges, & buildings, marine structure & waterfront, water treatment plants, and other applications), and region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the GFRP rebar market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted to provide insights into their business overview, solutions and services, key strategies, and recent developments in the GFRP rebar market are all covered. This report includes a competitive analysis of upcoming startups in the GFRP rebar market ecosystem.

Reasons to buy this report

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall GFRP rebar market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing demand in construction industry, government-led regulations on use of GFRP rebars), restraints (availability of substitutes and high cost of GFRP rebars), opportunities (Rising investments in large-scale civil engineering projects, growing use in construction of highways and bridges, integration of graphene into GFRP rebar for concrete reinforcement), and challenges (Supply chain and manufacturing constraints, inability to completely replace steel rebar) are influencing the growth of the GFRP rebar market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and product launches in the GFRP Rebar market.

Market Development: Comprehensive information about lucrative markets – the report analyses the GFRP rebar market across varied regions.

Market Diversification: Exhaustive information about services, untapped geographies, recent developments, and investments in the GFRP rebar market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Dextra Group (Thailand), Sch?ck Bauteile GmbH (Germany), Pultron Composites (New Zealand), Sireg S.P.A. (Italy), Pultrall Inc. (Canada), KODIAK Fiberglass Rebar (US), Neuvokas Corporation (US), R?chling (Germany), ARC Insulations & Insulator Ltd. (India), Jindal Advanced Materials (India), SKD Composite (India), Galen LLC (Russia), Fibrolux (Germany), FRT TUF-BAR (Canada), and Armastek (Russia).

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