

FRP Rebar Market by Fiber Type (Carbon Fiber, Glass Fiber, Basalt Fiber), Resin Type (Vinyl Ester, Epoxy, Other Resin Types), Diameter (< 10 mm, 10-20 mm, > 20 mm), Surface Treatment (Sand Coated, Ribbed, Others), Tensile Strength (Low strength (500 MPa), Medium Strength (500-1000 MPa), High Strength (> 1000 MPa)), Application (Highway, Bridges, & Buildings, Marine Structure & Waterfront, Water Treatment Plants, Other Applications), & Region - Global Forecast to 2030

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Report description:

The FRP rebar market is estimated at USD 0.69 billion in 2025 and is projected to reach USD 1.19 billion by 2030, at a CAGR of 11.5% from 2025 to 2030. The market for FRP rebar is fueled by the rising demand for corrosion-resistant, long-lasting materials in construction and infrastructure projects, especially in chemically aggressive, marine, and coastal environments. FRP rebar represents a better alternative to conventional steel reinforcement because it is non-corrosive, has a lightweight nature, and possesses high tensile strength, factors that extend the life of structures by far while lowering maintenance expenses. Its electromagnetic interference resistance and manipulability also increase its popularity in uses like bridges, tunnels, marine construction, and industrial facilities, where traditional steel reinforcement is vulnerable to rusting and deterioration.

"Epoxy resin segment is projected to be the fastest-growing resin type during the forecast period."

Epoxy resin is expected to be the most rapidly growing type of resin in the FRP rebar market because of its superior mechanical properties, high adhesion, excellent chemical resistance, and durability in aggressive environments over the long term. In contrast to other resins, epoxy has low shrinkage upon curing and retains structural integrity at high-stress levels, which makes it suitable

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for infrastructure applications where reliability and long life are essential. Due to its compatibility with other types of fibers and its resistance to moisture, heat, and corrosive substances, it is among the preferred resin choices in marine, coastal, and chemical plant buildings where polyester resins will not withstand.

"The medium tensile strength segment is projected to register the second-highest growth rate during the forecast period." Medium tensile strength FRP rebar is expected to register the second-highest CAGR in the FRP rebar market because it has the best balance of performance and cost-effectiveness. This type of rebar provides adequate strength for many structural applications, such as residential and commercial buildings, where ultra-high tensile strength is not necessary. Its versatility renders it appropriate for varied construction requirements, especially in areas that emphasize infrastructure development and urbanization. Additionally, the relatively affordable cost of medium tensile strength FRP rebar renders it a suitable alternative to steel reinforcement, especially in projects where budget is an issue. The increasing popularity of the advantages of FRP materials, including corrosion resistance and long life, is increasingly driving the demand for this segment in the construction sector.

"The Middle East & Africa region is projected to register the second-highest growth rate in the FRP rebar market during the forecast period."

The Middle East and Africa is anticipated to register the second-highest CAGR in the FRP rebar market during the forecast period because of increased urbanization, widespread infrastructure growth, and a growing need for long-lasting, corrosion-resistant construction materials. High-profile developments like the Burj Khalifa in the UAE and Saudi Arabia's NEOM City have used FRP rebar to add strength and longevity to the structure, particularly in challenging desert and coastal climates where steel reinforcement is subject to corrosion. The fact that these landmark developments have used FRP reflects its benefits in terms of longevity, lowered maintenance, and compliance with sustainability objectives. While regional governments and developers continue to pour investments into sustainable and future-proof infrastructure, the uptake of FRP rebar continues to gain speed, emerging as a favored replacement for traditional reinforcement in the construction scene of the MEA.

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), Pultron Composites (New Zealand), Pultrall Inc. (Canada), Schock Bauteile GmbH (Germany), Sireg S.P.A. (Italy), Kodiak Fiberglass Rebar (US), Neuvokas Corporation (US), Rochling Group (Germany), Armastek (Russia), TUF Bar (Canada), ARC Insulations & Insulator Ltd. (India), Jindal Advanced Materials (India), SKD Composites (India), Galen Composites (Russia), and ICSC (Saudi Arabia).

Research Coverage

This research report categorizes the FRP rebar market by fiber type (carbon fiber, glass fiber, and basalt fiber), resin type (vinyl ester, epoxy, and other resin types), diameter (< 10mm, 10-20 mm, and > 20 mm), surface treatment (sand coated, ribbed, and others), tensile strength (low strength (500 MPa), medium strength (500-1000 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 FRP 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 FRP rebar market are all covered. This report includes a competitive analysis of upcoming startups in the FRP rebar market ecosystem.

Reasons to buy this report

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The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall FRP 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 from the construction industry and government regulations on the usage of FRP rebar), restraints (availability of substitutes and high cost of FRP rebar), opportunities (growing investments in large civil engineering projects and increasing adoption in marine construction), and challenges (low adoption and acceptance of FRP rebar and inability to completely replace steel rebar) are influencing the growth of the FRP rebar market.

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

-□Market Development: Comprehensive information about lucrative markets - the report analyses the FRP rebar market across varied regions.

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

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Dextra Group (Thailand), Pultron Composites (New Zealand), Pultrall Inc. (Canada), Schock Bauteile GmbH (Germany), Sireg S.P.A. (Italy), Kodiak Fiberglass Rebar (US), Neuvokas Corporation (US), Rochling Group (Germany), Armastek (Russia), TUF Bar (Canada), ARC Insulations & Insulator Ltd. (India), Jindal Advanced Materials (India), SKD Composites (India), Galen Composites (Russia), and ICSC (Saudi Arabia).

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