

Global Robotic Automated Fiber Placement (AFP) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Robotic Automated Fiber Placement (AFP) market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Robotic Automated Fiber Placement (AFP) is an advanced manufacturing process used in the aerospace, automotive, and other high-performance industries to create composite structures. In AFP, a robot precisely places layers of fiber-reinforced materials, such as carbon fiber, onto a mold or tool. These fibers are laid down in a specific pattern to achieve the desired strength and weight characteristics. The process is automated, allowing for greater precision, consistency, and speed compared to manual methods. AFP is particularly valuable for creating complex, large-scale composite parts, such as aircraft wings, with high strength-to-weight ratios.

The Robotic Automated Fiber Placement (AFP) market is experiencing significant growth, driven by advancements in composite manufacturing technologies and increasing demand across various industries, including aerospace, automotive, wind energy, and defense. AFP technology is widely recognized for its ability to automate the placement of composite materials with high precision, reducing material waste and production time. This has made it an attractive option for industries seeking to enhance production efficiency and product performance while reducing costs.

Geographically, North America holds the largest share of the AFP market, primarily due to the presence of major aerospace manufacturers such as Boeing and Lockheed Martin, who are significant consumers of AFP technology. The region's dominance is further bolstered by strong government support for advanced manufacturing technologies and the presence of a well-established aerospace and defense industry. Europe is the second-largest market, driven by key players like Airbus and increased investments in wind energy projects. The Asia-Pacific region is also emerging as a significant market, with countries like China and Japan investing heavily in advanced manufacturing technologies to boost their automotive and aerospace sectors. The growing demand for fuel-efficient vehicles and the rise in air travel are expected to further drive market growth in these regions.

The AFP market offers substantial opportunities, particularly in the development of next-generation aircraft and electric vehicles. As the demand for lightweight, fuel-efficient, and sustainable solutions increases, manufacturers are turning to AFP technology to produce complex composite structures that meet these requirements. The renewable energy sector, particularly wind energy, also presents a significant opportunity for AFP technology. The need for larger, more efficient wind turbine blades, which can be produced using AFP, is expected to rise as countries around the world increase their investment in renewable energy. Additionally, the increasing focus on sustainability and reducing carbon emissions is pushing industries to adopt advanced manufacturing technologies like AFP, which can help reduce material waste and energy consumption during the production process.

Despite its advantages, the AFP market faces several challenges. High initial costs associated with AFP equipment and the complexity of the technology can be barriers to adoption, particularly for small and medium-sized enterprises (SMEs). The integration of AFP technology into existing production processes can also be complex and time-consuming, requiring skilled labor and significant upfront investment in training and infrastructure. Furthermore, the limited availability of high-performance composite materials and concerns over their recyclability present additional challenges. The industry also faces competitive pressures from alternative manufacturing technologies, such as 3D printing and automated tape laying (ATL), which may offer more cost-effective solutions for certain applications.

Looking ahead, the AFP market is expected to see continued innovation in both materials and processes. One key trend is the development of more advanced composite materials, such as thermoplastics, which offer improved recyclability and faster production cycles compared to traditional thermosetting composites. Additionally,

advancements in robotics and artificial intelligence (AI) are likely to play a significant role in enhancing the precision and efficiency of AFP systems. AI-driven process optimization and real-time monitoring are expected to reduce production errors and further lower costs. The integration of AFP with other advanced manufacturing technologies, such as additive manufacturing, is also anticipated to open up new possibilities for producing complex, multi-material structures. Moreover, the increasing adoption of Industry 4.0 technologies is likely to drive the development of more flexible and adaptive AFP systems, capable of producing customized components on demand.

In conclusion, the Robotic Automated Fiber Placement market is set to grow substantially, driven by demand for lightweight, high-performance materials in various industries. However, to capitalize on these opportunities, companies will need to address the challenges related to cost, complexity, and material availability, while continuing to innovate in both technology and processes.

This report is a detailed and comprehensive analysis for global Robotic Automated Fiber Placement (AFP) 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 Robotic Automated Fiber Placement (AFP) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Robotic Automated Fiber Placement (AFP) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Robotic Automated Fiber Placement (AFP) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Robotic Automated Fiber Placement (AFP) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 Robotic Automated Fiber Placement (AFP)
- 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 Robotic Automated Fiber Placement (AFP) 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 MTorres, Fives, Electroimpact, Camozzi, Coriolis Composites, Tsudakoma, Mikrosam, Trelleborg Group, Broetje-Automation, Accudyne, etc.

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

Market Segmentation

Robotic Automated Fiber Placement (AFP) market is split by Type and by Application. For the period 2020-2031, 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

Tows

Tapes

Market segment by Application

Aerospace & Defense

Automotive

Wind Energy

Others

Major players covered

MTorres

Fives

Electroimpact

Camozzi

Coriolis Composites

Tsudakoma

Mikrosam

Trelleborg Group

Broetje-Automation

Accudyne

Jota Machinery

Albany International

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 Robotic Automated Fiber Placement (AFP) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Robotic Automated Fiber Placement (AFP), with price, sales quantity, revenue, and global market share of Robotic Automated Fiber Placement (AFP) from 2020 to 2025.

Chapter 3, the Robotic Automated Fiber Placement (AFP) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robotic Automated Fiber Placement (AFP) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Robotic Automated Fiber Placement (AFP) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Robotic Automated Fiber Placement (AFP).

Chapter 14 and 15, to describe Robotic Automated Fiber Placement (AFP) sales channel, distributors, customers, research findings and conclusion.

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