

Composite Preforms Market: Trends, Opportunities and Competitive Analysis [2024-2030]

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Abstracts

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Composite Preform Market Trends and Forecast

The future of the global composite preforms market looks promising with opportunities in aerospace, automotive, consumer goods, infrastructure, medical, and marine industries. The global composite preform market is expected to reach an estimated \$526 million by 2030 with a CAGR of 6% from 2023 to 2030. The major drivers for this market are increasing usage of composite materials in the aerospace and automotive industries, and growing demand of composite preforms to manufacture complex structure and shorten part cycle time.

Lucintel forecasts that carbon fiber based preform will remain the largest segment over the forecast period due to its lightweight and high strength capabilities.

Aerospace will remain the largest end use segment and is also expected to witness the highest growth over the forecast period due to increasing usage of preforms in turbofan engines and fuselage frames of commercial aircrafts and stator vane of jet engines.

North America is expected to remain the largest region over the forecast period due to presence of aero-engine manufacturers, aerospace composite part fabricators, and OEMs.

North America is expected to remain the largest region in the Composite Preform Market

1. **United States:** Companies like Hexcel Corporation and Toray Industries, Inc. are leading innovations in composite preforms. Initiatives such as the Advanced Manufacturing Partnership (AMP) drive research and development in advanced materials. The US government invests in composite manufacturing through initiatives like the Advanced Manufacturing Technology Consortium (AMTech).
2. **China:** Chinese manufacturers, including Weihai Guangwei Composites Co., Ltd. and Zhongshan Carbon Fiber Composite Material Co., Ltd., are expanding production capacity. Government initiatives promoting technology innovation and high-end manufacturing drive market growth. The Chinese Ministry of Industry and Information Technology supports the development of advanced materials.
3. **Germany:** German companies like SGL Carbon SE and Zoltek Corporation are focusing on advanced composite preforms for various industries. Government initiatives promoting research and development in lightweight materials drive market expansion. The German Federal Ministry for Economic Affairs and Energy supports initiatives for innovation in advanced materials.
4. **India:** Indian manufacturers, including Teijin Carbon Europe GmbH and Hexcel Corporation, are entering the composite preforms market. Government initiatives like the Make in India program drive demand for advanced materials in aerospace and automotive sectors. The Indian Ministry of Heavy Industries and Public Enterprises supports initiatives for technology adoption in manufacturing.
5. **Brazil:** Brazilian companies like Composites Brazil and Gurit Holding AG are investing in composite preforms for aerospace and wind energy applications. Government initiatives promoting innovation in manufacturing drive market growth. The Brazilian Ministry of Science, Technology, and Innovation supports research and development in advanced materials.

Emerging Trends in the Composite Preform Market

Emerging trend, which has a direct impact on the dynamics of the industry, include manufacturing of 3D carbon fiber preforms by using digital technology and control system engineering.

A total of 127 figures / charts and 101 tables are provided in this 147-page report to help in your business decisions. A sample figure with insights is shown below.

Composite Preform Market by Segment

The study includes a forecast for the global composite preform market by end use, technology, fiber type, and region as follows:

Composite Preform Market by End Use [Value (\$M) Shipment Analysis for 2018 – 2030]:

Aerospace

Automotive

Consumer Goods

Infrastructure

Medical

Marine

Composite Preform Market by Technology [Value (\$M) Shipment Analysis for 2018 – 2030]:

Weaving

Braiding

Stitching

Knitting

Composite Preform Market by Fiber Type [Value (\$M) Shipment Analysis for 2018 – 2030]:

Carbon Fiber

Glass Fiber

Others

Composite Preform Market by Region [Value (\$M) Shipment Analysis for 2018 – 2030]:

North America

Europe

Asia Pacific

The Rest of the World

List of Composite Preform Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies composite preform market companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the composite preform market companies profiled in this report include.

Albany International Corp.

A&P Technology

Spirit Aerosystems Textiles.

Kumpers Gmbh & Co. KG

Bally Ribbon Mills

SAERTEX GmbH & Co. KG

Tex, Inc.

Eurocarbon B.V.

Recent Developments in Composite Preforms Market Insight

Innovations in 3D Preform Manufacturing: Recent developments in the composite preforms market include innovations in 3D preform manufacturing techniques. Companies like ELG Carbon Fibre and SGL Carbon are developing advanced methods such as automated fiber placement (AFP) and 3D printing to produce complex-shaped preforms with precise fiber orientation and minimal material waste, enabling lightweight and high-performance composite structures in aerospace, automotive, and other industries.

Expansion of Sustainable Preform Solutions: The market is witnessing an expansion of sustainable preform solutions to address environmental concerns and regulatory requirements. Manufacturers like Porcher Industries and Teijin are introducing recycled carbon fiber preforms and bio-based resin-infused preforms, offering eco-friendly alternatives to traditional composite materials while maintaining high mechanical properties and performance standards.

Focus on Tailored Fiber Placement (TFP) Technology: Tailored fiber placement (TFP) technology is gaining traction in the composite preforms market for producing customized preforms with variable fiber orientations and thicknesses. Companies like DLR and Coriolis Composites are developing TFP machines and software solutions that enable precise control over fiber deposition, allowing for the optimization of mechanical properties and weight distribution in composite structures.

Collaborations for Material Development: Collaboration between industry players and research institutions is driving material development for composite preforms. Consortia like the National Composites Centre (NCC) and the Advanced Composites Research Centre (ACRC) are partnering with manufacturers and academia to develop new fibers,

resins, and additives tailored for specific preform applications, accelerating innovation and adoption in the market.

Emergence of Hybrid Preform Solutions: Hybrid preform solutions combining different fiber types and reinforcement architectures are emerging in the market to achieve optimal performance characteristics. Companies like Mitsubishi Chemical Carbon Fiber and Composite Materials Division and Hexcel Corporation are developing hybrid preform technologies that integrate carbon fibers, glass fibers, and aramid fibers to tailor mechanical properties such as stiffness, strength, and impact resistance for diverse applications.

Adoption of Digital Twin Technology: Digital twin technology is being adopted in the composite preforms market to simulate and optimize preform manufacturing processes. Software providers like Siemens Digital Industries and Ansys are offering digital twin platforms that enable virtual prototyping, material optimization, and process simulation for composite preform production, reducing time-to-market and production costs while ensuring quality and performance.

Features of Composite Preform Market

Market Size Estimates: Composite Preform market size estimation in terms of value (\$M).

Trend and Forecast Analysis: Market trends (2018-2023) and forecast (2024-2030) by various segments and regions.

Segmentation Analysis: Market size by end use, technology, fiber type and region

Regional Analysis: Composite preform market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different end use, technology, fiber type, and regions for the composite preform market .

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the composite preform market .

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q1. What is the composite preform market size?

Answer: The global composite preform market is expected to reach an estimated \$526 million by 2030.

Q2. What is the growth forecast for composite preform market?

Answer: The composite preform market is expected to grow at a CAGR of 6% from 2023 to 2030.

Q3. What are the major drivers influencing the growth of the composite preform market ?

Answer: The major drivers for this market are increasing usage of composite materials in the aerospace and automotive industries, and growing demand of composite preforms to manufacture complex structure and shorten part cycle time.

Q4. What are the major applications or end use industries for thermoplastic resin in global automotive composites?

Answer: Aerospace and automotive are the major end uses for composite preform market .

Q5. What are the emerging trends in composite preform market?

Answer: Emerging trend, which has a direct impact on the dynamics of the industry, includes manufacturing of 3D carbon fiber preforms by using digital technology and control system engineering.

Q6. What are the key composite preform market companies?

Answer: Some of the key composite preform market companies are as follows:

Albany International Corp.

A&P Technology

Spirit Aerosystems Textiles.

Kumpers GmbH & Co. KG

Bally Ribbon Mills

SAERTEX GmbH & Co. KG

Tex, Inc.

Eurocarbon B.V.

Q7. Which composite preform market fiber segment will be the largest in future?

Answer: Lucintel forecasts that carbon fiber based preform will remain the largest segment over the forecast period due to its lightweight and high strength capabilities

Q8: In composite preform market, which region is expected to be the largest in next 5 years?

Answer: North America is expected to remain the largest region over next 5 years

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1 What are some of the most promising, high-growth in the global composite preforms market by end use (aerospace, automotive, consumer goods, infrastructure, medical and marine), technology (weaving, braiding, stitching, and knitting), fiber type

(carbon fiber, glass fiber, and others) and region (North America, Europe, Asia Pacific and ROW) ?

Q. 2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5 What are the business risks and threats to the market?

Q.6 What are the emerging trends in this market and the reasons behind them?

Q.7 What are the changing demands of customers in the market?

Q.8 What are the new developments in the market? Which companies are leading these developments?

Q.9 Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M & A activities have taken place in the last 5 years in this market?

For any questions related to composite preform market or related to composite preforms, composite preform market, composite preform market size, composite preform market analysis, composite preform suppliers, composite preform manufacturers, composite preform raw material, composite preform cost, composite preform market trend and forecast, composite preform applications, write Lucintel analyst at email: helpdesk@lucintel.com. We will be glad to get back to you soon.

Contents

1. EXECUTIVE SUMMARY

2. GLOBAL COMPOSITE PREFORM MARKET DYNAMICS

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2018 TO 2030

3.1: Macroeconomic Trends and Forecasts

3.2: Global Composite Preform Market Trends and Forecast

3.3 Global Composite Preform Market by End Use

3.3.1: Aerospace

3.3.2: Automotive

3.3.3: Consumer Goods

3.3.4: Infrastructure

3.3.5: Medical

3.3.6: Marine

3.4: Global Composite Preform Market by Technology

3.4.1: Weaving

3.4.2: Braiding

3.4.3: Stitching

3.4.4: Knitting

3.5: Global Composite Preform Market by Fiber Type

3.5.1: Carbon Fiber

3.5.2: Glass Fiber

3.5.3: Others

4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION

4.1: Global Composite Preform Market by Region

4.2: North American Composite Preform Market

4.2.1: Market by End Use: Aerospace, Automotive, Consumer Goods, Infrastructure, Medical and Marine

4.3: European Composite Preform Market

4.3.1: Market by End Use: Aerospace, Automotive, Consumer Goods, Infrastructure,

Medical and Marine

4.4: APAC Thermoplastic Resin in Global Composite Preform Market

4.4.1: Market by End Use: Aerospace, Automotive, Consumer Goods, Infrastructure, Medical and Marine

4.5: ROW Composite Preform Market

4.5.1: Market by End Use: Aerospace, Automotive, Consumer Goods, Infrastructure, Medical and Marine

5. COMPETITOR ANALYSIS

5.1: Product Portfolio Analysis

5.2: Market Share Analysis

5.3: Operational Integration

5.4: Geographical Reach

5.5: Porter's Five Forces Analysis

6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS

6.1: Growth Opportunity Analysis

6.1.1: Growth Opportunities for the Global Composite Preform Market by End Use

6.1.2: Growth Opportunities for the Global Composite Preform Market by Technology

6.1.3: Growth Opportunities for the Global Composite Preform Market by Fiber Type

6.1.4: Growth Opportunities for the Global Composite Preform Market by Region

6.2: Emerging Trends in the Global Composite Preform Market

6.3: Strategic Analysis

6.3.1: New Product Development

6.3.2: Mergers and Acquisitions

7. COMPANY PROFILES OF LEADING PLAYERS

7.1: Albany International Corp.

7.2: A&P Technology

7.3: Spirit Aerosystem Textiles

7.4: Kumpers GmbH & Co. KG

7.5: Bally Ribbon Mills

7.6: SAERTEX GmbH & Co. KG

7.7: Tex, Inc.

7.8: Eurocarbon B.V.

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