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Global Carbon Fiber Exoskeleton Market Growth 2025-2031

https://marketpublishers.com/r/G1F7F81AB854EN.html
Date: May 2025
Pages: 125
Price: US$ 3,660.00 (Single User License)
ID: G1F7F81AB854EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Automotive Active Grille Shutters market size is predicted to grow from US$ 1755 million in 2025 to US$ 2722 million in 2031; it is expected to grow at a CAGR of 7.6% from 2025 to 2031.

Automotive active grille shutters are a system of automatically controlled louvers or vanes positioned in front of a vehicle's radiator. These shutters open and close to regulate airflow to the engine compartment. When cooling is needed, the shutters open to allow air to flow through the radiator. When cooling is not required, such as during warm-up or highway cruising, the shutters close to improve aerodynamics, reducing drag and improving fuel efficiency.

The trend in active grille shutter technology is focused on improving performance, expanding functionality, and reducing complexity. Key trends include: enhanced control algorithms that consider a wider range of parameters, such as engine temperature, vehicle speed, ambient temperature, and even driving style, for more precise airflow management; improved actuator designs for faster opening and closing times, as well as increased durability and reliability in harsh environments; integration with other vehicle systems, such as the climate control system and engine management system, for optimized overall vehicle performance; the use of lighter-weight materials, such as plastics and composites, to reduce weight and improve fuel efficiency; and the development of more compact designs to allow for greater styling flexibility. Furthermore, there's a growing emphasis on predictive control strategies that anticipate cooling needs based on navigation data or traffic conditions, enabling proactive shutter adjustments. The trend is also towards more sophisticated diagnostic capabilities,

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allowing for early detection of potential issues. This aligns with the automotive industry's focus on improving fuel economy, reducing emissions, and enhancing vehicle performance and aerodynamics.

The Automotive Active Grille Shutters (AGS) market is part of the larger trend toward increasing vehicle fuel efficiency, aerodynamics, and reducing emissions. Active grille shutters are a key component in improving the overall performance and efficiency of modern vehicles by optimizing airflow to the engine and cooling systems. These shutters adjust automatically depending on driving conditions, contributing to better fuel economy and reduced environmental impact. As the automotive industry focuses on innovation, fuel efficiency, and emission standards, the active grille shutters market is witnessing significant growth.

Fuel efficiency and CO2 emission reduction are among the top priorities for automakers due to stringent government regulations, especially in regions like the European Union, North America, and China.

Active grille shutters improve aerodynamics by controlling airflow to the engine and cooling systems, reducing drag and fuel consumption, particularly at high speeds. By optimizing airflow, they enhance vehicle performance and contribute to meeting emission reduction standards.

Regulatory frameworks such as Euro 6, CAFE (Corporate Average Fuel Economy) standards, and fuel economy regulations in various countries continue to encourage the adoption of AGS to improve vehicle efficiency.

LP Information, Inc. (LPI) ' newest research report, the “Automotive Active Grille Shutters Industry Forecast” looks at past sales and reviews total world Automotive Active Grille Shutters sales in 2024, providing a comprehensive analysis by region and market sector of projected Automotive Active Grille Shutters sales for 2025 through 2031. With Automotive Active Grille Shutters sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Automotive Active Grille Shutters industry.

This Insight Report provides a comprehensive analysis of the global Automotive Active Grille Shutters 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 Automotive Active Grille Shutters portfolios and capabilities, market entry strategies,

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market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Active Grille Shutters market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Active Grille Shutters 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 Automotive Active Grille Shutters.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Active Grille Shutters market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Visible Type

Non-Visible Type

Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- 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

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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.

Rochling

Valeo

Magna International

Wirthwein

SRG Global

Batz

HBPO GmbH

Techniplas

Brose Fahrzeugteile

STARLITE

Mirror Controls International

Huatong Automotive Molding

Tong Yang Group

Sonceboz

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Active Grille Shutters market?

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What factors are driving Automotive Active Grille Shutters market growth, globally and by region?

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

How do Automotive Active Grille Shutters market opportunities vary by end market size?

How does Automotive Active Grille Shutters break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Carbon Fiber Exoskeleton Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for Carbon Fiber Exoskeleton by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for Carbon Fiber Exoskeleton by Country/Region, 2020, 2024 & 2031
2.2 Carbon Fiber Exoskeleton Segment by Type
  2.2.1 Upper Limb Exoskeleton
  2.2.2 Waist Exoskeleton
  2.2.3 Lower Limb Exoskeleton
2.3 Carbon Fiber Exoskeleton Sales by Type
  2.3.1 Global Carbon Fiber Exoskeleton Sales Market Share by Type (2020-2025)
  2.3.2 Global Carbon Fiber Exoskeleton Revenue and Market Share by Type (2020-2025)
  2.3.3 Global Carbon Fiber Exoskeleton Sale Price by Type (2020-2025)
2.4 Carbon Fiber Exoskeleton Segment by Application
  2.4.1 Industrial Manufacturing
  2.4.2 Security and Rescue
  2.4.3 Medical
  2.4.4 Research
  2.4.5 Others
2.5 Carbon Fiber Exoskeleton Sales by Application
  2.5.1 Global Carbon Fiber Exoskeleton Sale Market Share by Application (2020-2025)
  2.5.2 Global Carbon Fiber Exoskeleton Revenue and Market Share by Application

+357 96 030922
info@marketpublishers.com

(2020-2025)
2.5.3 Global Carbon Fiber Exoskeleton Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Carbon Fiber Exoskeleton Breakdown Data by Company
3.1.1 Global Carbon Fiber Exoskeleton Annual Sales by Company (2020-2025)
3.1.2 Global Carbon Fiber Exoskeleton Sales Market Share by Company (2020-2025)
3.2 Global Carbon Fiber Exoskeleton Annual Revenue by Company (2020-2025)
3.2.1 Global Carbon Fiber Exoskeleton Revenue by Company (2020-2025)
3.2.2 Global Carbon Fiber Exoskeleton Revenue Market Share by Company (2020-2025)
3.3 Global Carbon Fiber Exoskeleton Sale Price by Company
3.4 Key Manufacturers Carbon Fiber Exoskeleton Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Carbon Fiber Exoskeleton Product Location Distribution
3.4.2 Players Carbon Fiber Exoskeleton Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR CARBON FIBER EXOSKELETON BY GEOGRAPHIC REGION

4.1 World Historic Carbon Fiber Exoskeleton Market Size by Geographic Region (2020-2025)
4.1.1 Global Carbon Fiber Exoskeleton Annual Sales by Geographic Region (2020-2025)
4.1.2 Global Carbon Fiber Exoskeleton Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic Carbon Fiber Exoskeleton Market Size by Country/Region (2020-2025)
4.2.1 Global Carbon Fiber Exoskeleton Annual Sales by Country/Region (2020-2025)
4.2.2 Global Carbon Fiber Exoskeleton Annual Revenue by Country/Region (2020-2025)
4.3 Americas Carbon Fiber Exoskeleton Sales Growth
4.4 APAC Carbon Fiber Exoskeleton Sales Growth

+357 96 030922
info@marketpublishers.com

4.5 Europe Carbon Fiber Exoskeleton Sales Growth
4.6 Middle East & Africa Carbon Fiber Exoskeleton Sales Growth

5 AMERICAS

5.1 Americas Carbon Fiber Exoskeleton Sales by Country
  5.1.1 Americas Carbon Fiber Exoskeleton Sales by Country (2020-2025)
  5.1.2 Americas Carbon Fiber Exoskeleton Revenue by Country (2020-2025)
5.2 Americas Carbon Fiber Exoskeleton Sales by Type (2020-2025)
5.3 Americas Carbon Fiber Exoskeleton Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Carbon Fiber Exoskeleton Sales by Region
  6.1.1 APAC Carbon Fiber Exoskeleton Sales by Region (2020-2025)
  6.1.2 APAC Carbon Fiber Exoskeleton Revenue by Region (2020-2025)
6.2 APAC Carbon Fiber Exoskeleton Sales by Type (2020-2025)
6.3 APAC Carbon Fiber Exoskeleton Sales by Application (2020-2025)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Carbon Fiber Exoskeleton by Country
  7.1.1 Europe Carbon Fiber Exoskeleton Sales by Country (2020-2025)
  7.1.2 Europe Carbon Fiber Exoskeleton Revenue by Country (2020-2025)
7.2 Europe Carbon Fiber Exoskeleton Sales by Type (2020-2025)
7.3 Europe Carbon Fiber Exoskeleton Sales by Application (2020-2025)
7.4 Germany
7.5 France

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7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Carbon Fiber Exoskeleton by Country
  8.1.1 Middle East & Africa Carbon Fiber Exoskeleton Sales by Country (2020-2025)
  8.1.2 Middle East & Africa Carbon Fiber Exoskeleton Revenue by Country (2020-2025)
8.2 Middle East & Africa Carbon Fiber Exoskeleton Sales by Type (2020-2025)
8.3 Middle East & Africa Carbon Fiber Exoskeleton Sales by Application (2020-2025)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Carbon Fiber Exoskeleton
10.3 Manufacturing Process Analysis of Carbon Fiber Exoskeleton
10.4 Industry Chain Structure of Carbon Fiber Exoskeleton

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Carbon Fiber Exoskeleton Distributors
11.3 Carbon Fiber Exoskeleton Customer

+357 96 030922
info@marketpublishers.com

12 WORLD FORECAST REVIEW FOR CARBON FIBER EXOSKELETON BY GEOGRAPHIC REGION

12.1 Global Carbon Fiber Exoskeleton Market Size Forecast by Region
12.1.1 Global Carbon Fiber Exoskeleton Forecast by Region (2026-2031)
12.1.2 Global Carbon Fiber Exoskeleton Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global Carbon Fiber Exoskeleton Forecast by Type (2026-2031)
12.7 Global Carbon Fiber Exoskeleton Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 German Bionic
13.1.1 German Bionic Company Information
13.1.2 German Bionic Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.1.3 German Bionic Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.1.4 German Bionic Main Business Overview
13.1.5 German Bionic Latest Developments
13.2 Comau
13.2.1 Comau Company Information
13.2.2 Comau Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.2.3 Comau Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.2.4 Comau Main Business Overview
13.2.5 Comau Latest Developments
13.3 Hyundai
13.3.1 Hyundai Company Information
13.3.2 Hyundai Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.3.3 Hyundai Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.3.4 Hyundai Main Business Overview
13.3.5 Hyundai Latest Developments
13.4 Uchida Carbon Conposite Technology
13.4.1 Uchida Carbon Conposite Technology Company Information

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13.4.2 Uchida Carbon Conposite Technology Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.4.3 Uchida Carbon Conposite Technology Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 Uchida Carbon Conposite Technology Main Business Overview
13.4.5 Uchida Carbon Conposite Technology Latest Developments
13.5 CASIC
13.5.1 CASIC Company Information
13.5.2 CASIC Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.5.3 CASIC Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 CASIC Main Business Overview
13.5.5 CASIC Latest Developments
13.6 China North Industries Group Corporation
13.6.1 China North Industries Group Corporation Company Information
13.6.2 China North Industries Group Corporation Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.6.3 China North Industries Group Corporation Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 China North Industries Group Corporation Main Business Overview
13.6.5 China North Industries Group Corporation Latest Developments
13.7 China Shipbuilding Industry Company
13.7.1 China Shipbuilding Industry Company Company Information
13.7.2 China Shipbuilding Industry Company Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.7.3 China Shipbuilding Industry Company Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 China Shipbuilding Industry Company Main Business Overview
13.7.5 China Shipbuilding Industry Company Latest Developments
13.8 Shanghai Fourier Intelligence
13.8.1 Shanghai Fourier Intelligence Company Information
13.8.2 Shanghai Fourier Intelligence Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.8.3 Shanghai Fourier Intelligence Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 Shanghai Fourier Intelligence Main Business Overview
13.8.5 Shanghai Fourier Intelligence Latest Developments
13.9 Beijing Tiejia Gangquan Technology
13.9.1 Beijing Tiejia Gangquan Technology Company Information

+357 96 030922
info@marketpublishers.com

13.9.2 Beijing Tiejia Gangquan Technology Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.9.3 Beijing Tiejia Gangquan Technology Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.9.4 Beijing Tiejia Gangquan Technology Main Business Overview
13.9.5 Beijing Tiejia Gangquan Technology Latest Developments
13.10 Beijing AI- robotics Technology
13.10.1 Beijing AI- robotics Technology Company Information
13.10.2 Beijing AI- robotics Technology Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.10.3 Beijing AI- robotics Technology Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.10.4 Beijing AI- robotics Technology Main Business Overview
13.10.5 Beijing AI- robotics Technology Latest Developments
13.11 Guangzhou Shipeng Technology
13.11.1 Guangzhou Shipeng Technology Company Information
13.11.2 Guangzhou Shipeng Technology Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.11.3 Guangzhou Shipeng Technology Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.11.4 Guangzhou Shipeng Technology Main Business Overview
13.11.5 Guangzhou Shipeng Technology Latest Developments
13.12 Zhejiang Jinggong Integration Technology
13.12.1 Zhejiang Jinggong Integration Technology Company Information
13.12.2 Zhejiang Jinggong Integration Technology Carbon Fiber Exoskeleton Product Portfolios and Specifications
13.12.3 Zhejiang Jinggong Integration Technology Carbon Fiber Exoskeleton Sales, Revenue, Price and Gross Margin (2020-2025)
13.12.4 Zhejiang Jinggong Integration Technology Main Business Overview
13.12.5 Zhejiang Jinggong Integration Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Carbon Fiber Exoskeleton Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. Carbon Fiber Exoskeleton Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of Upper Limb Exoskeleton
Table 4. Major Players of Waist Exoskeleton
Table 5. Major Players of Lower Limb Exoskeleton
Table 6. Global Carbon Fiber Exoskeleton Sales by Type (2020-2025) & (K Units)
Table 7. Global Carbon Fiber Exoskeleton Sales Market Share by Type (2020-2025)
Table 8. Global Carbon Fiber Exoskeleton Revenue by Type (2020-2025) & ($ million)
Table 9. Global Carbon Fiber Exoskeleton Revenue Market Share by Type (2020-2025)
Table 10. Global Carbon Fiber Exoskeleton Sale Price by Type (2020-2025) & (US$/Unit)
Table 11. Global Carbon Fiber Exoskeleton Sale by Application (2020-2025) & (K Units)
Table 12. Global Carbon Fiber Exoskeleton Sale Market Share by Application (2020-2025)
Table 13. Global Carbon Fiber Exoskeleton Revenue by Application (2020-2025) & ($ million)
Table 14. Global Carbon Fiber Exoskeleton Revenue Market Share by Application (2020-2025)
Table 15. Global Carbon Fiber Exoskeleton Sale Price by Application (2020-2025) & (US$/Unit)
Table 16. Global Carbon Fiber Exoskeleton Sales by Company (2020-2025) & (K Units)
Table 17. Global Carbon Fiber Exoskeleton Sales Market Share by Company (2020-2025)
Table 18. Global Carbon Fiber Exoskeleton Revenue by Company (2020-2025) & ($ millions)
Table 19. Global Carbon Fiber Exoskeleton Revenue Market Share by Company (2020-2025)
Table 20. Global Carbon Fiber Exoskeleton Sale Price by Company (2020-2025) & (US$/Unit)
Table 21. Key Manufacturers Carbon Fiber Exoskeleton Producing Area Distribution and Sales Area
Table 22. Players Carbon Fiber Exoskeleton Products Offered
Table 23. Carbon Fiber Exoskeleton Concentration Ratio (CR3, CR5 and CR10) &

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info@marketpublishers.com

(2023-2025)
Table 24. New Products and Potential Entrants
Table 25. Market M&A Activity & Strategy
Table 26. Global Carbon Fiber Exoskeleton Sales by Geographic Region (2020-2025) & (K Units)
Table 27. Global Carbon Fiber Exoskeleton Sales Market Share Geographic Region (2020-2025)
Table 28. Global Carbon Fiber Exoskeleton Revenue by Geographic Region (2020-2025) & ($ millions)
Table 29. Global Carbon Fiber Exoskeleton Revenue Market Share by Geographic Region (2020-2025)
Table 30. Global Carbon Fiber Exoskeleton Sales by Country/Region (2020-2025) & (K Units)
Table 31. Global Carbon Fiber Exoskeleton Sales Market Share by Country/Region (2020-2025)
Table 32. Global Carbon Fiber Exoskeleton Revenue by Country/Region (2020-2025) & ($ millions)
Table 33. Global Carbon Fiber Exoskeleton Revenue Market Share by Country/Region (2020-2025)
Table 34. Americas Carbon Fiber Exoskeleton Sales by Country (2020-2025) & (K Units)
Table 35. Americas Carbon Fiber Exoskeleton Sales Market Share by Country (2020-2025)
Table 36. Americas Carbon Fiber Exoskeleton Revenue by Country (2020-2025) & ($ millions)
Table 37. Americas Carbon Fiber Exoskeleton Sales by Type (2020-2025) & (K Units)
Table 38. Americas Carbon Fiber Exoskeleton Sales by Application (2020-2025) & (K Units)
Table 39. APAC Carbon Fiber Exoskeleton Sales by Region (2020-2025) & (K Units)
Table 40. APAC Carbon Fiber Exoskeleton Sales Market Share by Region (2020-2025)
Table 41. APAC Carbon Fiber Exoskeleton Revenue by Region (2020-2025) & ($ millions)
Table 42. APAC Carbon Fiber Exoskeleton Sales by Type (2020-2025) & (K Units)
Table 43. APAC Carbon Fiber Exoskeleton Sales by Application (2020-2025) & (K Units)
Table 44. Europe Carbon Fiber Exoskeleton Sales by Country (2020-2025) & (K Units)
Table 45. Europe Carbon Fiber Exoskeleton Revenue by Country (2020-2025) & ($ millions)
Table 46. Europe Carbon Fiber Exoskeleton Sales by Type (2020-2025) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 47. Europe Carbon Fiber Exoskeleton Sales by Application (2020-2025) & (K Units)
Table 48. Middle East & Africa Carbon Fiber Exoskeleton Sales by Country (2020-2025) & (K Units)
Table 49. Middle East & Africa Carbon Fiber Exoskeleton Revenue Market Share by Country (2020-2025)
Table 50. Middle East & Africa Carbon Fiber Exoskeleton Sales by Type (2020-2025) & (K Units)
Table 51. Middle East & Africa Carbon Fiber Exoskeleton Sales by Application (2020-2025) & (K Units)
Table 52. Key Market Drivers & Growth Opportunities of Carbon Fiber Exoskeleton
Table 53. Key Market Challenges & Risks of Carbon Fiber Exoskeleton
Table 54. Key Industry Trends of Carbon Fiber Exoskeleton
Table 55. Carbon Fiber Exoskeleton Raw Material
Table 56. Key Suppliers of Raw Materials
Table 57. Carbon Fiber Exoskeleton Distributors List
Table 58. Carbon Fiber Exoskeleton Customer List
Table 59. Global Carbon Fiber Exoskeleton Sales Forecast by Region (2026-2031) & (K Units)
Table 60. Global Carbon Fiber Exoskeleton Revenue Forecast by Region (2026-2031) & ($ millions)
Table 61. Americas Carbon Fiber Exoskeleton Sales Forecast by Country (2026-2031) & (K Units)
Table 62. Americas Carbon Fiber Exoskeleton Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 63. APAC Carbon Fiber Exoskeleton Sales Forecast by Region (2026-2031) & (K Units)
Table 64. APAC Carbon Fiber Exoskeleton Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 65. Europe Carbon Fiber Exoskeleton Sales Forecast by Country (2026-2031) & (K Units)
Table 66. Europe Carbon Fiber Exoskeleton Revenue Forecast by Country (2026-2031) & ($ millions)
Table 67. Middle East & Africa Carbon Fiber Exoskeleton Sales Forecast by Country (2026-2031) & (K Units)
Table 68. Middle East & Africa Carbon Fiber Exoskeleton Revenue Forecast by Country (2026-2031) & ($ millions)
Table 69. Global Carbon Fiber Exoskeleton Sales Forecast by Type (2026-2031) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 70. Global Carbon Fiber Exoskeleton Revenue Forecast by Type (2026-2031) & ($ millions)
Table 71. Global Carbon Fiber Exoskeleton Sales Forecast by Application (2026-2031) & (K Units)
Table 72. Global Carbon Fiber Exoskeleton Revenue Forecast by Application (2026-2031) & ($ millions)
Table 73. German Bionic Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 74. German Bionic Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 75. German Bionic Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 76. German Bionic Main Business
Table 77. German Bionic Latest Developments
Table 78. Comau Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 79. Comau Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 80. Comau Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 81. Comau Main Business
Table 82. Comau Latest Developments
Table 83. Hyundai Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 84. Hyundai Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 85. Hyundai Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 86. Hyundai Main Business
Table 87. Hyundai Latest Developments
Table 88. Uchida Carbon Conposite Technology Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 89. Uchida Carbon Conposite Technology Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 90. Uchida Carbon Conposite Technology Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 91. Uchida Carbon Conposite Technology Main Business
Table 92. Uchida Carbon Conposite Technology Latest Developments
Table 93. CASIC Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 94. CASIC Carbon Fiber Exoskeleton Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 95. CASIC Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 96. CASIC Main Business
Table 97. CASIC Latest Developments
Table 98. China North Industries Group Corporation Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 99. China North Industries Group Corporation Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 100. China North Industries Group Corporation Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 101. China North Industries Group Corporation Main Business
Table 102. China North Industries Group Corporation Latest Developments
Table 103. China Shipbuilding Industry Company Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 104. China Shipbuilding Industry Company Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 105. China Shipbuilding Industry Company Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 106. China Shipbuilding Industry Company Main Business
Table 107. China Shipbuilding Industry Company Latest Developments
Table 108. Shanghai Fourier Intelligence Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 109. Shanghai Fourier Intelligence Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 110. Shanghai Fourier Intelligence Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 111. Shanghai Fourier Intelligence Main Business
Table 112. Shanghai Fourier Intelligence Latest Developments
Table 113. Beijing Tiejia Gangquan Technology Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 114. Beijing Tiejia Gangquan Technology Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 115. Beijing Tiejia Gangquan Technology Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 116. Beijing Tiejia Gangquan Technology Main Business
Table 117. Beijing Tiejia Gangquan Technology Latest Developments
Table 118. Beijing AI- robotics Technology Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 119. Beijing AI- robotics Technology Carbon Fiber Exoskeleton Product Portfolios

+357 96 030922
info@marketpublishers.com

and Specifications
Table 120. Beijing AI- robotics Technology Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 121. Beijing AI- robotics Technology Main Business
Table 122. Beijing AI- robotics Technology Latest Developments
Table 123. Guangzhou Shipeng Technology Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 124. Guangzhou Shipeng Technology Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 125. Guangzhou Shipeng Technology Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 126. Guangzhou Shipeng Technology Main Business
Table 127. Guangzhou Shipeng Technology Latest Developments
Table 128. Zhejiang Jinggong Integration Technology Basic Information, Carbon Fiber Exoskeleton Manufacturing Base, Sales Area and Its Competitors
Table 129. Zhejiang Jinggong Integration Technology Carbon Fiber Exoskeleton Product Portfolios and Specifications
Table 130. Zhejiang Jinggong Integration Technology Carbon Fiber Exoskeleton Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 131. Zhejiang Jinggong Integration Technology Main Business
Table 132. Zhejiang Jinggong Integration Technology Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Carbon Fiber Exoskeleton
Figure 2. Carbon Fiber Exoskeleton Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Carbon Fiber Exoskeleton Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global Carbon Fiber Exoskeleton Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. Carbon Fiber Exoskeleton Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. Carbon Fiber Exoskeleton Sales Market Share by Country/Region (2024)
Figure 10. Carbon Fiber Exoskeleton Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of Upper Limb Exoskeleton
Figure 12. Product Picture of Waist Exoskeleton
Figure 13. Product Picture of Lower Limb Exoskeleton
Figure 14. Global Carbon Fiber Exoskeleton Sales Market Share by Type in 2025
Figure 15. Global Carbon Fiber Exoskeleton Revenue Market Share by Type (2020-2025)
Figure 16. Carbon Fiber Exoskeleton Consumed in Industrial Manufacturing
Figure 17. Global Carbon Fiber Exoskeleton Market: Industrial Manufacturing (2020-2025) & (K Units)
Figure 18. Carbon Fiber Exoskeleton Consumed in Security and Rescue
Figure 19. Global Carbon Fiber Exoskeleton Market: Security and Rescue (2020-2025) & (K Units)
Figure 20. Carbon Fiber Exoskeleton Consumed in Medical
Figure 21. Global Carbon Fiber Exoskeleton Market: Medical (2020-2025) & (K Units)
Figure 22. Carbon Fiber Exoskeleton Consumed in Research
Figure 23. Global Carbon Fiber Exoskeleton Market: Research (2020-2025) & (K Units)
Figure 24. Carbon Fiber Exoskeleton Consumed in Others
Figure 25. Global Carbon Fiber Exoskeleton Market: Others (2020-2025) & (K Units)
Figure 26. Global Carbon Fiber Exoskeleton Sale Market Share by Application (2024)
Figure 27. Global Carbon Fiber Exoskeleton Revenue Market Share by Application in 2025
Figure 28. Carbon Fiber Exoskeleton Sales by Company in 2025 (K Units)

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Figure 29. Global Carbon Fiber Exoskeleton Sales Market Share by Company in 2025
Figure 30. Carbon Fiber Exoskeleton Revenue by Company in 2025 ($ millions)
Figure 31. Global Carbon Fiber Exoskeleton Revenue Market Share by Company in 2025
Figure 32. Global Carbon Fiber Exoskeleton Sales Market Share by Geographic Region (2020-2025)
Figure 33. Global Carbon Fiber Exoskeleton Revenue Market Share by Geographic Region in 2025
Figure 34. Americas Carbon Fiber Exoskeleton Sales 2020-2025 (K Units)
Figure 35. Americas Carbon Fiber Exoskeleton Revenue 2020-2025 ($ millions)
Figure 36. APAC Carbon Fiber Exoskeleton Sales 2020-2025 (K Units)
Figure 37. APAC Carbon Fiber Exoskeleton Revenue 2020-2025 ($ millions)
Figure 38. Europe Carbon Fiber Exoskeleton Sales 2020-2025 (K Units)
Figure 39. Europe Carbon Fiber Exoskeleton Revenue 2020-2025 ($ millions)
Figure 40. Middle East & Africa Carbon Fiber Exoskeleton Sales 2020-2025 (K Units)
Figure 41. Middle East & Africa Carbon Fiber Exoskeleton Revenue 2020-2025 ($ millions)
Figure 42. Americas Carbon Fiber Exoskeleton Sales Market Share by Country in 2025
Figure 43. Americas Carbon Fiber Exoskeleton Revenue Market Share by Country (2020-2025)
Figure 44. Americas Carbon Fiber Exoskeleton Sales Market Share by Type (2020-2025)
Figure 45. Americas Carbon Fiber Exoskeleton Sales Market Share by Application (2020-2025)
Figure 46. United States Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 47. Canada Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 48. Mexico Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 49. Brazil Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 50. APAC Carbon Fiber Exoskeleton Sales Market Share by Region in 2025
Figure 51. APAC Carbon Fiber Exoskeleton Revenue Market Share by Region (2020-2025)
Figure 52. APAC Carbon Fiber Exoskeleton Sales Market Share by Type (2020-2025)
Figure 53. APAC Carbon Fiber Exoskeleton Sales Market Share by Application (2020-2025)
Figure 54. China Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 55. Japan Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 56. South Korea Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)

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Figure 57. Southeast Asia Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 58. India Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 59. Australia Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 60. China Taiwan Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 61. Europe Carbon Fiber Exoskeleton Sales Market Share by Country in 2025
Figure 62. Europe Carbon Fiber Exoskeleton Revenue Market Share by Country (2020-2025)
Figure 63. Europe Carbon Fiber Exoskeleton Sales Market Share by Type (2020-2025)
Figure 64. Europe Carbon Fiber Exoskeleton Sales Market Share by Application (2020-2025)
Figure 65. Germany Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 66. France Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 67. UK Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 68. Italy Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 69. Russia Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 70. Middle East & Africa Carbon Fiber Exoskeleton Sales Market Share by Country (2020-2025)
Figure 71. Middle East & Africa Carbon Fiber Exoskeleton Sales Market Share by Type (2020-2025)
Figure 72. Middle East & Africa Carbon Fiber Exoskeleton Sales Market Share by Application (2020-2025)
Figure 73. Egypt Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 74. South Africa Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 75. Israel Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 76. Turkey Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 77. GCC Countries Carbon Fiber Exoskeleton Revenue Growth 2020-2025 ($ millions)
Figure 78. Manufacturing Cost Structure Analysis of Carbon Fiber Exoskeleton in 2025
Figure 79. Manufacturing Process Analysis of Carbon Fiber Exoskeleton
Figure 80. Industry Chain Structure of Carbon Fiber Exoskeleton
Figure 81. Channels of Distribution
Figure 82. Global Carbon Fiber Exoskeleton Sales Market Forecast by Region (2026-2031)
Figure 83. Global Carbon Fiber Exoskeleton Revenue Market Share Forecast by Region (2026-2031)
Figure 84. Global Carbon Fiber Exoskeleton Sales Market Share Forecast by Type

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(2026-2031)
Figure 85. Global Carbon Fiber Exoskeleton Revenue Market Share Forecast by Type (2026-2031)
Figure 86. Global Carbon Fiber Exoskeleton Sales Market Share Forecast by Application (2026-2031)
Figure 87. Global Carbon Fiber Exoskeleton Revenue Market Share Forecast by Application (2026-2031)

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