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Global EV Aluminum Battery Enclosures Market Growth 2026-2032

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Abstracts

The global EV Aluminum Battery Enclosures market size is predicted to grow from US$ 1098 million in 2025 to US$ 1513 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

EV aluminum battery enclosures are specifically designed protective housings made primarily from aluminum or aluminum alloys for electric vehicle (EV) batteries. They are engineered to safeguard the battery packs from external impacts, moisture, dust, and other environmental factors while also providing structural support within the vehicle. Additionally, they play a role in thermal management, helping to dissipate heat generated by the battery during operation and are often designed with considerations for weight reduction to enhance the overall efficiency and range of the electric vehicle.

United States market for EV Aluminum Battery Enclosures is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for EV Aluminum Battery Enclosures is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for EV Aluminum Battery Enclosures is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key EV Aluminum Battery Enclosures players cover Constellium, Novelis, Magna, XD Thermal, Lingyun Industrial Corporation Limited, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?EV Aluminum Battery

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Enclosures Industry Forecast? looks at past sales and reviews total world EV Aluminum Battery Enclosures sales in 2025, providing a comprehensive analysis by region and market sector of projected EV Aluminum Battery Enclosures sales for 2026 through 2032. With EV Aluminum Battery Enclosures sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world EV Aluminum Battery Enclosures industry.

This Insight Report provides a comprehensive analysis of the global EV Aluminum Battery Enclosures 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 EV Aluminum Battery Enclosures portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global EV Aluminum Battery Enclosures market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for EV Aluminum Battery Enclosures 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 EV Aluminum Battery Enclosures.

This report presents a comprehensive overview, market shares, and growth opportunities of EV Aluminum Battery Enclosures market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cast Aluminum Enclosures

Extruded Aluminum Enclosures

Forged Aluminum Enclosures

Segmentation by Application:

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Hybrid Electric Vehicles

Full Battery Electric Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

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Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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.

Constellium

Novelis

Magna

XD Thermal

Lingyun Industrial Corporation Limited

Xusheng Group

Guangdong Hoshion Aluminium Co., Ltd

TRB lightweight structures

GF Casting Solutions

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Jiangsu Xingyong Aluminium Technology Co., Ltd.

Foshan Shijun Hongmao Aluminum Technology Co., Ltd

SUASE Plastic Mould Co., Ltd

kautex

Key Questions Addressed in this Report
What is the 10-year outlook for the global EV Aluminum Battery Enclosures market?
What factors are driving EV Aluminum Battery Enclosures market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do EV Aluminum Battery Enclosures market opportunities vary by end market size?
How does EV Aluminum Battery Enclosures 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 EV Aluminum Battery Enclosures Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for EV Aluminum Battery Enclosures by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for EV Aluminum Battery Enclosures by Country/Region, 2021, 2025 & 2032
2.2 EV Aluminum Battery Enclosures Segment by Type
  2.2.1 Cast Aluminum Enclosures
  2.2.2 Extruded Aluminum Enclosures
  2.2.3 Forged Aluminum Enclosures
  2.2.4 EV Aluminum Battery Enclosures Sales by Type
    2.2.4.1 Global EV Aluminum Battery Enclosures Sales Market Share by Type (2021-2026)
    2.2.4.2 Global EV Aluminum Battery Enclosures Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global EV Aluminum Battery Enclosures Sale Price by Type (2021-2026)
2.3 EV Aluminum Battery Enclosures Segment by Application
  2.3.1 Hybrid Electric Vehicles
  2.3.2 Full Battery Electric Vehicles
  2.3.3 EV Aluminum Battery Enclosures Sales by Application
    2.3.3.1 Global EV Aluminum Battery Enclosures Sale Market Share by Application (2021-2026)
    2.3.3.2 Global EV Aluminum Battery Enclosures Revenue and Market Share by Application (2021-2026)

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2.3.3.3 Global EV Aluminum Battery Enclosures Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global EV Aluminum Battery Enclosures Breakdown Data by Company
3.1.1 Global EV Aluminum Battery Enclosures Annual Sales by Company (2021-2026)
3.1.2 Global EV Aluminum Battery Enclosures Sales Market Share by Company (2021-2026)
3.2 Global EV Aluminum Battery Enclosures Annual Revenue by Company (2021-2026)
3.2.1 Global EV Aluminum Battery Enclosures Revenue by Company (2021-2026)
3.2.2 Global EV Aluminum Battery Enclosures Revenue Market Share by Company (2021-2026)
3.3 Global EV Aluminum Battery Enclosures Sale Price by Company
3.4 Key Manufacturers EV Aluminum Battery Enclosures Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers EV Aluminum Battery Enclosures Product Location Distribution
3.4.2 Players EV Aluminum Battery Enclosures Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR EV ALUMINUM BATTERY ENCLOSURES BY GEOGRAPHIC REGION

4.1 World Historic EV Aluminum Battery Enclosures Market Size by Geographic Region (2021-2026)
4.1.1 Global EV Aluminum Battery Enclosures Annual Sales by Geographic Region (2021-2026)
4.1.2 Global EV Aluminum Battery Enclosures Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic EV Aluminum Battery Enclosures Market Size by Country/Region (2021-2026)
4.2.1 Global EV Aluminum Battery Enclosures Annual Sales by Country/Region (2021-2026)
4.2.2 Global EV Aluminum Battery Enclosures Annual Revenue by Country/Region

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(2021-2026)
4.3 Americas EV Aluminum Battery Enclosures Sales Growth
4.4 APAC EV Aluminum Battery Enclosures Sales Growth
4.5 Europe EV Aluminum Battery Enclosures Sales Growth
4.6 Middle East & Africa EV Aluminum Battery Enclosures Sales Growth

5 AMERICAS

5.1 Americas EV Aluminum Battery Enclosures Sales by Country
  5.1.1 Americas EV Aluminum Battery Enclosures Sales by Country (2021-2026)
  5.1.2 Americas EV Aluminum Battery Enclosures Revenue by Country (2021-2026)
5.2 Americas EV Aluminum Battery Enclosures Sales by Type (2021-2026)
5.3 Americas EV Aluminum Battery Enclosures Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC EV Aluminum Battery Enclosures Sales by Region
  6.1.1 APAC EV Aluminum Battery Enclosures Sales by Region (2021-2026)
  6.1.2 APAC EV Aluminum Battery Enclosures Revenue by Region (2021-2026)
6.2 APAC EV Aluminum Battery Enclosures Sales by Type (2021-2026)
6.3 APAC EV Aluminum Battery Enclosures Sales by Application (2021-2026)
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 EV Aluminum Battery Enclosures by Country
  7.1.1 Europe EV Aluminum Battery Enclosures Sales by Country (2021-2026)
  7.1.2 Europe EV Aluminum Battery Enclosures Revenue by Country (2021-2026)
7.2 Europe EV Aluminum Battery Enclosures Sales by Type (2021-2026)

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7.3 Europe EV Aluminum Battery Enclosures Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa EV Aluminum Battery Enclosures by Country
  8.1.1 Middle East & Africa EV Aluminum Battery Enclosures Sales by Country (2021-2026)
  8.1.2 Middle East & Africa EV Aluminum Battery Enclosures Revenue by Country (2021-2026)
8.2 Middle East & Africa EV Aluminum Battery Enclosures Sales by Type (2021-2026)
8.3 Middle East & Africa EV Aluminum Battery Enclosures Sales by Application (2021-2026)
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 EV Aluminum Battery Enclosures
10.3 Manufacturing Process Analysis of EV Aluminum Battery Enclosures
10.4 Industry Chain Structure of EV Aluminum Battery Enclosures

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

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11.1.1 Direct Channels
11.1.2 Indirect Channels
11.2 EV Aluminum Battery Enclosures Distributors
11.3 EV Aluminum Battery Enclosures Customer

12 WORLD FORECAST REVIEW FOR EV ALUMINUM BATTERY ENCLOSURES BY GEOGRAPHIC REGION

12.1 Global EV Aluminum Battery Enclosures Market Size Forecast by Region
12.1.1 Global EV Aluminum Battery Enclosures Forecast by Region (2027-2032)
12.1.2 Global EV Aluminum Battery Enclosures Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global EV Aluminum Battery Enclosures Forecast by Type (2027-2032)
12.7 Global EV Aluminum Battery Enclosures Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Constellium
13.1.1 Constellium Company Information
13.1.2 Constellium EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.1.3 Constellium EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Constellium Main Business Overview
13.1.5 Constellium Latest Developments
13.2 Novelis
13.2.1 Novelis Company Information
13.2.2 Novelis EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.2.3 Novelis EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Novelis Main Business Overview
13.2.5 Novelis Latest Developments
13.3 Magna
13.3.1 Magna Company Information
13.3.2 Magna EV Aluminum Battery Enclosures Product Portfolios and Specifications

+357 96 030922
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13.3.3 Magna EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Magna Main Business Overview
13.3.5 Magna Latest Developments
13.4 XD Thermal
13.4.1 XD Thermal Company Information
13.4.2 XD Thermal EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.4.3 XD Thermal EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 XD Thermal Main Business Overview
13.4.5 XD Thermal Latest Developments
13.5 Lingyun Industrial Corporation Limited
13.5.1 Lingyun Industrial Corporation Limited Company Information
13.5.2 Lingyun Industrial Corporation Limited EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.5.3 Lingyun Industrial Corporation Limited EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Lingyun Industrial Corporation Limited Main Business Overview
13.5.5 Lingyun Industrial Corporation Limited Latest Developments
13.6 Xusheng Group
13.6.1 Xusheng Group Company Information
13.6.2 Xusheng Group EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.6.3 Xusheng Group EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Xusheng Group Main Business Overview
13.6.5 Xusheng Group Latest Developments
13.7 Guangdong Hoshion Aluminium Co., Ltd
13.7.1 Guangdong Hoshion Aluminium Co., Ltd Company Information
13.7.2 Guangdong Hoshion Aluminium Co., Ltd EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.7.3 Guangdong Hoshion Aluminium Co., Ltd EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Guangdong Hoshion Aluminium Co., Ltd Main Business Overview
13.7.5 Guangdong Hoshion Aluminium Co., Ltd Latest Developments
13.8 TRB lightweight structures
13.8.1 TRB lightweight structures Company Information
13.8.2 TRB lightweight structures EV Aluminum Battery Enclosures Product Portfolios

+357 96 030922
info@marketpublishers.com

and Specifications
13.8.3 TRB lightweight structures EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 TRB lightweight structures Main Business Overview
13.8.5 TRB lightweight structures Latest Developments
13.9 GF Casting Solutions
13.9.1 GF Casting Solutions Company Information
13.9.2 GF Casting Solutions EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.9.3 GF Casting Solutions EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 GF Casting Solutions Main Business Overview
13.9.5 GF Casting Solutions Latest Developments
13.10 Jiangsu Xingyong Aluminium Technology Co., Ltd.
13.10.1 Jiangsu Xingyong Aluminium Technology Co., Ltd. Company Information
13.10.2 Jiangsu Xingyong Aluminium Technology Co., Ltd. EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.10.3 Jiangsu Xingyong Aluminium Technology Co., Ltd. EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Jiangsu Xingyong Aluminium Technology Co., Ltd. Main Business Overview
13.10.5 Jiangsu Xingyong Aluminium Technology Co., Ltd. Latest Developments
13.11 Foshan Shijun Hongmao Aluminum Technology Co., Ltd
13.11.1 Foshan Shijun Hongmao Aluminum Technology Co., Ltd Company Information
13.11.2 Foshan Shijun Hongmao Aluminum Technology Co., Ltd EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.11.3 Foshan Shijun Hongmao Aluminum Technology Co., Ltd EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Foshan Shijun Hongmao Aluminum Technology Co., Ltd Main Business Overview
13.11.5 Foshan Shijun Hongmao Aluminum Technology Co., Ltd Latest Developments
13.12 SUASE Plastic Mould Co., Ltd
13.12.1 SUASE Plastic Mould Co., Ltd Company Information
13.12.2 SUASE Plastic Mould Co., Ltd EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.12.3 SUASE Plastic Mould Co., Ltd EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 SUASE Plastic Mould Co., Ltd Main Business Overview
13.12.5 SUASE Plastic Mould Co., Ltd Latest Developments
13.13 kautex

+357 96 030922
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13.13.1 kautex Company Information
13.13.2 kautex EV Aluminum Battery Enclosures Product Portfolios and Specifications
13.13.3 kautex EV Aluminum Battery Enclosures Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 kautex Main Business Overview
13.13.5 kautex Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. EV Aluminum Battery Enclosures Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. EV Aluminum Battery Enclosures Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Cast Aluminum Enclosures
Table 4. Major Players of Extruded Aluminum Enclosures
Table 5. Major Players of Forged Aluminum Enclosures
Table 6. Global EV Aluminum Battery Enclosures Sales by Type (2021-2026) & (Units)
Table 7. Global EV Aluminum Battery Enclosures Sales Market Share by Type (2021-2026)
Table 8. Global EV Aluminum Battery Enclosures Revenue by Type (2021-2026) & ($ million)
Table 9. Global EV Aluminum Battery Enclosures Revenue Market Share by Type (2021-2026)
Table 10. Global EV Aluminum Battery Enclosures Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Global EV Aluminum Battery Enclosures Sale by Application (2021-2026) & (Units)
Table 12. Global EV Aluminum Battery Enclosures Sale Market Share by Application (2021-2026)
Table 13. Global EV Aluminum Battery Enclosures Revenue by Application (2021-2026) & ($ million)
Table 14. Global EV Aluminum Battery Enclosures Revenue Market Share by Application (2021-2026)
Table 15. Global EV Aluminum Battery Enclosures Sale Price by Application (2021-2026) & (US$/Unit)
Table 16. Global EV Aluminum Battery Enclosures Sales by Company (2021-2026) & (Units)
Table 17. Global EV Aluminum Battery Enclosures Sales Market Share by Company (2021-2026)
Table 18. Global EV Aluminum Battery Enclosures Revenue by Company (2021-2026) & ($ millions)
Table 19. Global EV Aluminum Battery Enclosures Revenue Market Share by Company (2021-2026)
Table 20. Global EV Aluminum Battery Enclosures Sale Price by Company (2021-2026)

+357 96 030922
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& (US$/Unit)
Table 21. Key Manufacturers EV Aluminum Battery Enclosures Producing Area Distribution and Sales Area
Table 22. Players EV Aluminum Battery Enclosures Products Offered
Table 23. EV Aluminum Battery Enclosures Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 24. New Products and Potential Entrants
Table 25. Market M&A Activity & Strategy
Table 26. Global EV Aluminum Battery Enclosures Sales by Geographic Region (2021-2026) & (Units)
Table 27. Global EV Aluminum Battery Enclosures Sales Market Share Geographic Region (2021-2026)
Table 28. Global EV Aluminum Battery Enclosures Revenue by Geographic Region (2021-2026) & ($ millions)
Table 29. Global EV Aluminum Battery Enclosures Revenue Market Share by Geographic Region (2021-2026)
Table 30. Global EV Aluminum Battery Enclosures Sales by Country/Region (2021-2026) & (Units)
Table 31. Global EV Aluminum Battery Enclosures Sales Market Share by Country/Region (2021-2026)
Table 32. Global EV Aluminum Battery Enclosures Revenue by Country/Region (2021-2026) & ($ millions)
Table 33. Global EV Aluminum Battery Enclosures Revenue Market Share by Country/Region (2021-2026)
Table 34. Americas EV Aluminum Battery Enclosures Sales by Country (2021-2026) & (Units)
Table 35. Americas EV Aluminum Battery Enclosures Sales Market Share by Country (2021-2026)
Table 36. Americas EV Aluminum Battery Enclosures Revenue by Country (2021-2026) & ($ millions)
Table 37. Americas EV Aluminum Battery Enclosures Sales by Type (2021-2026) & (Units)
Table 38. Americas EV Aluminum Battery Enclosures Sales by Application (2021-2026) & (Units)
Table 39. APAC EV Aluminum Battery Enclosures Sales by Region (2021-2026) & (Units)
Table 40. APAC EV Aluminum Battery Enclosures Sales Market Share by Region (2021-2026)
Table 41. APAC EV Aluminum Battery Enclosures Revenue by Region (2021-2026) &

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($ millions)
Table 42. APAC EV Aluminum Battery Enclosures Sales by Type (2021-2026) & (Units)
Table 43. APAC EV Aluminum Battery Enclosures Sales by Application (2021-2026) & (Units)
Table 44. Europe EV Aluminum Battery Enclosures Sales by Country (2021-2026) & (Units)
Table 45. Europe EV Aluminum Battery Enclosures Revenue by Country (2021-2026) & ($ millions)
Table 46. Europe EV Aluminum Battery Enclosures Sales by Type (2021-2026) & (Units)
Table 47. Europe EV Aluminum Battery Enclosures Sales by Application (2021-2026) & (Units)
Table 48. Middle East & Africa EV Aluminum Battery Enclosures Sales by Country (2021-2026) & (Units)
Table 49. Middle East & Africa EV Aluminum Battery Enclosures Revenue Market Share by Country (2021-2026)
Table 50. Middle East & Africa EV Aluminum Battery Enclosures Sales by Type (2021-2026) & (Units)
Table 51. Middle East & Africa EV Aluminum Battery Enclosures Sales by Application (2021-2026) & (Units)
Table 52. Key Market Drivers & Growth Opportunities of EV Aluminum Battery Enclosures
Table 53. Key Market Challenges & Risks of EV Aluminum Battery Enclosures
Table 54. Key Industry Trends of EV Aluminum Battery Enclosures
Table 55. EV Aluminum Battery Enclosures Raw Material
Table 56. Key Suppliers of Raw Materials
Table 57. EV Aluminum Battery Enclosures Distributors List
Table 58. EV Aluminum Battery Enclosures Customer List
Table 59. Global EV Aluminum Battery Enclosures Sales Forecast by Region (2027-2032) & (Units)
Table 60. Global EV Aluminum Battery Enclosures Revenue Forecast by Region (2027-2032) & ($ millions)
Table 61. Americas EV Aluminum Battery Enclosures Sales Forecast by Country (2027-2032) & (Units)
Table 62. Americas EV Aluminum Battery Enclosures Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 63. APAC EV Aluminum Battery Enclosures Sales Forecast by Region (2027-2032) & (Units)
Table 64. APAC EV Aluminum Battery Enclosures Annual Revenue Forecast by Region

+357 96 030922
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(2027-2032) & ($ millions)
Table 65. Europe EV Aluminum Battery Enclosures Sales Forecast by Country (2027-2032) & (Units)
Table 66. Europe EV Aluminum Battery Enclosures Revenue Forecast by Country (2027-2032) & ($ millions)
Table 67. Middle East & Africa EV Aluminum Battery Enclosures Sales Forecast by Country (2027-2032) & (Units)
Table 68. Middle East & Africa EV Aluminum Battery Enclosures Revenue Forecast by Country (2027-2032) & ($ millions)
Table 69. Global EV Aluminum Battery Enclosures Sales Forecast by Type (2027-2032) & (Units)
Table 70. Global EV Aluminum Battery Enclosures Revenue Forecast by Type (2027-2032) & ($ millions)
Table 71. Global EV Aluminum Battery Enclosures Sales Forecast by Application (2027-2032) & (Units)
Table 72. Global EV Aluminum Battery Enclosures Revenue Forecast by Application (2027-2032) & ($ millions)
Table 73. Constellium Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 74. Constellium EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 75. Constellium EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 76. Constellium Main Business
Table 77. Constellium Latest Developments
Table 78. Novelis Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 79. Novelis EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 80. Novelis EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 81. Novelis Main Business
Table 82. Novelis Latest Developments
Table 83. Magna Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 84. Magna EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 85. Magna EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 86. Magna Main Business
Table 87. Magna Latest Developments
Table 88. XD Thermal Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 89. XD Thermal EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 90. XD Thermal EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 91. XD Thermal Main Business
Table 92. XD Thermal Latest Developments
Table 93. Lingyun Industrial Corporation Limited Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 94. Lingyun Industrial Corporation Limited EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 95. Lingyun Industrial Corporation Limited EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 96. Lingyun Industrial Corporation Limited Main Business
Table 97. Lingyun Industrial Corporation Limited Latest Developments
Table 98. Xusheng Group Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 99. Xusheng Group EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 100. Xusheng Group EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 101. Xusheng Group Main Business
Table 102. Xusheng Group Latest Developments
Table 103. Guangdong Hoshion Aluminium Co., Ltd Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 104. Guangdong Hoshion Aluminium Co., Ltd EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 105. Guangdong Hoshion Aluminium Co., Ltd EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 106. Guangdong Hoshion Aluminium Co., Ltd Main Business
Table 107. Guangdong Hoshion Aluminium Co., Ltd Latest Developments
Table 108. TRB lightweight structures Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 109. TRB lightweight structures EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 110. TRB lightweight structures EV Aluminum Battery Enclosures Sales (Units),

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Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 111. TRB lightweight structures Main Business
Table 112. TRB lightweight structures Latest Developments
Table 113. GF Casting Solutions Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 114. GF Casting Solutions EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 115. GF Casting Solutions EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 116. GF Casting Solutions Main Business
Table 117. GF Casting Solutions Latest Developments
Table 118. Jiangsu?Xingyong?Aluminium Technology?Co.,?Ltd. Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 119. Jiangsu?Xingyong?Aluminium Technology?Co.,?Ltd. EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 120. Jiangsu?Xingyong?Aluminium Technology?Co.,?Ltd. EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 121. Jiangsu?Xingyong?Aluminium Technology?Co.,?Ltd. Main Business
Table 122. Jiangsu?Xingyong?Aluminium Technology?Co.,?Ltd. Latest Developments
Table 123. Foshan Shijun Hongmao Aluminum Technology Co., Ltd Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 124. Foshan Shijun Hongmao Aluminum Technology Co., Ltd EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 125. Foshan Shijun Hongmao Aluminum Technology Co., Ltd EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 126. Foshan Shijun Hongmao Aluminum Technology Co., Ltd Main Business
Table 127. Foshan Shijun Hongmao Aluminum Technology Co., Ltd Latest Developments
Table 128. SUASE Plastic Mould Co., Ltd Basic Information, EV Aluminum Battery Enclosures Manufacturing Base, Sales Area and Its Competitors
Table 129. SUASE Plastic Mould Co., Ltd EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 130. SUASE Plastic Mould Co., Ltd EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 131. SUASE Plastic Mould Co., Ltd Main Business
Table 132. SUASE Plastic Mould Co., Ltd Latest Developments
Table 133. kautex Basic Information, EV Aluminum Battery Enclosures Manufacturing

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Base, Sales Area and Its Competitors
Table 134. kautex EV Aluminum Battery Enclosures Product Portfolios and Specifications
Table 135. kautex EV Aluminum Battery Enclosures Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 136. kautex Main Business
Table 137. kautex Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of EV Aluminum Battery Enclosures
Figure 2. EV Aluminum Battery Enclosures Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global EV Aluminum Battery Enclosures Sales Growth Rate 2021-2032 (Units)
Figure 7. Global EV Aluminum Battery Enclosures Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. EV Aluminum Battery Enclosures Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. EV Aluminum Battery Enclosures Sales Market Share by Country/Region (2025)
Figure 10. EV Aluminum Battery Enclosures Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Cast Aluminum Enclosures
Figure 12. Product Picture of Extruded Aluminum Enclosures
Figure 13. Product Picture of Forged Aluminum Enclosures
Figure 14. Global EV Aluminum Battery Enclosures Sales Market Share by Type in 2026
Figure 15. Global EV Aluminum Battery Enclosures Revenue Market Share by Type (2021-2026)
Figure 16. EV Aluminum Battery Enclosures Consumed in Hybrid Electric Vehicles
Figure 17. Global EV Aluminum Battery Enclosures Market: Hybrid Electric Vehicles (2021-2026) & (Units)
Figure 18. EV Aluminum Battery Enclosures Consumed in Full Battery Electric Vehicles
Figure 19. Global EV Aluminum Battery Enclosures Market: Full Battery Electric Vehicles (2021-2026) & (Units)
Figure 20. Global EV Aluminum Battery Enclosures Sale Market Share by Application (2025)
Figure 21. Global EV Aluminum Battery Enclosures Revenue Market Share by Application in 2026
Figure 22. EV Aluminum Battery Enclosures Sales by Company in 2026 (Units)
Figure 23. Global EV Aluminum Battery Enclosures Sales Market Share by Company in 2026

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Figure 24. EV Aluminum Battery Enclosures Revenue by Company in 2026 ($ millions)
Figure 25. Global EV Aluminum Battery Enclosures Revenue Market Share by Company in 2026
Figure 26. Global EV Aluminum Battery Enclosures Sales Market Share by Geographic Region (2021-2026)
Figure 27. Global EV Aluminum Battery Enclosures Revenue Market Share by Geographic Region in 2026
Figure 28. Americas EV Aluminum Battery Enclosures Sales 2021-2026 (Units)
Figure 29. Americas EV Aluminum Battery Enclosures Revenue 2021-2026 ($ millions)
Figure 30. APAC EV Aluminum Battery Enclosures Sales 2021-2026 (Units)
Figure 31. APAC EV Aluminum Battery Enclosures Revenue 2021-2026 ($ millions)
Figure 32. Europe EV Aluminum Battery Enclosures Sales 2021-2026 (Units)
Figure 33. Europe EV Aluminum Battery Enclosures Revenue 2021-2026 ($ millions)
Figure 34. Middle East & Africa EV Aluminum Battery Enclosures Sales 2021-2026 (Units)
Figure 35. Middle East & Africa EV Aluminum Battery Enclosures Revenue 2021-2026 ($ millions)
Figure 36. Americas EV Aluminum Battery Enclosures Sales Market Share by Country in 2026
Figure 37. Americas EV Aluminum Battery Enclosures Revenue Market Share by Country (2021-2026)
Figure 38. Americas EV Aluminum Battery Enclosures Sales Market Share by Type (2021-2026)
Figure 39. Americas EV Aluminum Battery Enclosures Sales Market Share by Application (2021-2026)
Figure 40. United States EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 41. Canada EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 42. Mexico EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 43. Brazil EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 44. APAC EV Aluminum Battery Enclosures Sales Market Share by Region in 2026
Figure 45. APAC EV Aluminum Battery Enclosures Revenue Market Share by Region (2021-2026)
Figure 46. APAC EV Aluminum Battery Enclosures Sales Market Share by Type (2021-2026)

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Figure 47. APAC EV Aluminum Battery Enclosures Sales Market Share by Application (2021-2026)
Figure 48. China EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 49. Japan EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 50. South Korea EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 51. Southeast Asia EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 52. India EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 53. Australia EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 54. China Taiwan EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 55. Europe EV Aluminum Battery Enclosures Sales Market Share by Country in 2026
Figure 56. Europe EV Aluminum Battery Enclosures Revenue Market Share by Country (2021-2026)
Figure 57. Europe EV Aluminum Battery Enclosures Sales Market Share by Type (2021-2026)
Figure 58. Europe EV Aluminum Battery Enclosures Sales Market Share by Application (2021-2026)
Figure 59. Germany EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 60. France EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 61. UK EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 62. Italy EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 63. Russia EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 64. Middle East & Africa EV Aluminum Battery Enclosures Sales Market Share by Country (2021-2026)
Figure 65. Middle East & Africa EV Aluminum Battery Enclosures Sales Market Share by Type (2021-2026)
Figure 66. Middle East & Africa EV Aluminum Battery Enclosures Sales Market Share

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by Application (2021-2026)
Figure 67. Egypt EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 68. South Africa EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 69. Israel EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 70. Turkey EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 71. GCC Countries EV Aluminum Battery Enclosures Revenue Growth 2021-2026 ($ millions)
Figure 72. Manufacturing Cost Structure Analysis of EV Aluminum Battery Enclosures in 2026
Figure 73. Manufacturing Process Analysis of EV Aluminum Battery Enclosures
Figure 74. Industry Chain Structure of EV Aluminum Battery Enclosures
Figure 75. Channels of Distribution
Figure 76. Global EV Aluminum Battery Enclosures Sales Market Forecast by Region (2027-2032)
Figure 77. Global EV Aluminum Battery Enclosures Revenue Market Share Forecast by Region (2027-2032)
Figure 78. Global EV Aluminum Battery Enclosures Sales Market Share Forecast by Type (2027-2032)
Figure 79. Global EV Aluminum Battery Enclosures Revenue Market Share Forecast by Type (2027-2032)
Figure 80. Global EV Aluminum Battery Enclosures Sales Market Share Forecast by Application (2027-2032)
Figure 81. Global EV Aluminum Battery Enclosures Revenue Market Share Forecast by Application (2027-2032)

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