

# Global Lithium Battery Magnesium Alloy Structural Parts 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 Lithium Battery Magnesium Alloy Structural Parts market size was valued at US\$ 109 million in 2024 and is forecast to a readjusted size of USD 328 million by 2031 with a CAGR of 17.3% 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.

Lithium battery magnesium alloy structural parts are used to support and protect lithium battery modules or battery packs. They are made of lightweight magnesium alloy materials. Since magnesium alloy has excellent strength, rigidity and corrosion resistance, and its density is lower than that of aluminum alloy, lithium battery magnesium alloy structural parts can effectively reduce the weight of the battery system while providing stable support and safety protection, and improve the energy density and endurance of electric vehicles or electronic devices. In addition, this material has good heat dissipation, which helps control the operating temperature of the battery and improves overall safety and service life. The battery pack is the core energy source of new energy vehicles, providing driving power for the entire vehicle. The weight of a battery pack for a pure electric vehicle can reach hundreds of kilograms. If the weight of a new energy vehicle is reduced by 100Kg, the cruising range can be increased by 10-11%, the battery cost can be reduced by 20%, and the daily loss cost can be reduced by 20%. Therefore, lightweight materials have become an important path to solve the problems of new energy vehicles. The lightweight structural parts of the battery pack mainly include the internal end plate/side plate, the external shell and the

bottom tray. Among them, the internal end plate plays the role of separating the internal battery module and plays a certain protective role; the external shell is the bearing part of the power battery of the new energy vehicle, which is mainly used to protect the lithium battery from damage when it is hit or squeezed by the outside world; the bottom tray is a structural part at the bottom of the electric vehicle, which is mainly used to fix the battery pack. The traditional automotive battery box is cast with steel plates, aluminum alloys and other materials, and then the surface is sprayed. With the continuous improvement of energy-saving and environmental protection requirements for automobiles, some companies are currently trying to use magnesium alloy materials to achieve lightweight battery packs.

This report is a detailed and comprehensive analysis for global Lithium Battery Magnesium Alloy Structural Parts 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 Lithium Battery Magnesium Alloy Structural Parts market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Lithium Battery Magnesium Alloy Structural Parts market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Lithium Battery Magnesium Alloy Structural Parts 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 Lithium Battery Magnesium Alloy Structural Parts 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 Lithium Battery Magnesium Alloy Structural Parts

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 Lithium Battery Magnesium Alloy Structural Parts 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 Georg Fischer, DGS Druckgussysteme AG, Handtmann Metallgusswerk GmbH, Wanfeng Auto Wheel, Sanxiang Advanced Materials, Baowu Magnesium, Ka Shui International Holdings, etc.

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

## **Market Segmentation**

Lithium Battery Magnesium Alloy Structural Parts 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

Housing

Tray

End plate

Others

### Market segment by Application

Passenger Cars

Commercial Vehicles

Major players covered

Georg Fischer

DGS Druckgussysteme AG

Handtmann Metallgusswerk GmbH

Wanfeng Auto Wheel

Sanxiang Advanced Materials

Baowu Magnesium

Ka Shui International Holdings

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 Lithium Battery Magnesium Alloy Structural Parts product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium Battery Magnesium Alloy Structural Parts, with price, sales quantity, revenue, and global market share of Lithium Battery Magnesium Alloy Structural Parts from 2020 to 2025.

Chapter 3, the Lithium Battery Magnesium Alloy Structural Parts competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lithium Battery Magnesium Alloy Structural Parts 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 Lithium Battery Magnesium Alloy Structural Parts 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 Lithium Battery Magnesium Alloy Structural Parts.

Chapter 14 and 15, to describe Lithium Battery Magnesium Alloy Structural Parts sales channel, distributors, customers, research findings and conclusion.

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