

Global ?Roll-formed Battery Enclosure Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global ?Roll-formed Battery Enclosure market size was valued at US\$ 307 million in 2025 and is forecast to a readjusted size of US\$ 1571 million by 2032 with a CAGR of 26.6% during review period.

Battery Enclosure, also known as "battery tray", "battery box Enclosure", etc. Its design mainly considers the functions of protecting the battery pack, providing support and connection, heat dissipation, and convenient installation and maintenance. Battery Enclosure is usually used to wrap the battery to ensure the safe operation of the battery pack and provide appropriate environmental and structural support.

Roll-formed Battery Enclosure is a metal shell structure manufactured by continuous roll forming process, specially designed for new energy vehicle power battery system. It uses high-strength steel or aluminum alloy strip, and is formed by multi-pass roller progressive bending to form a box component with a specific cross-sectional shape. It has the characteristics of lightweight, high strength and modular integration, and is the core carrier of battery pack structural safety and thermal management.

With the increasingly severe global climate problems and the continuous improvement of environmental awareness, electric vehicles, as a low-carbon and environmentally friendly mode of transportation, are gradually becoming the focus of attention of countries around the world. At present, electric vehicle technology is constantly improving, and problems such as cruising range and charging facilities have been gradually solved, and market demand is gradually growing. Driven by policy support and technological innovation, the electric vehicle industry has become an important

development direction of the global automotive industry. Governments of various countries have introduced encouraging policies to increase the research and development and promotion of electric vehicles.

Among them, the battery pack is the core component of electric vehicles. It provides power for electric vehicles and accounts for 30% to 40% of the cost of the whole vehicle. The battery pack mainly includes enclosure mechanical structural parts, battery modules, and battery management systems. The enclosure mechanical structural parts include upper covers and enclosures. Battery Enclosure is an important part of the battery pack, which has an important impact on the performance, safety and life of the battery pack. The enclosure under the battery pack of electric vehicles refers to the shell installed at the bottom of the battery pack, which is used to support, fix and protect the battery modules, battery management systems and other components inside the battery pack.

The main electric vehicle power battery enclosures on the market include aluminum alloy enclosures, sheet metal stamping enclosures, and steel roll-formed battery enclosures. Enclosures are mainly composed of aluminum alloy profile frames and aluminum alloy profile bottom plates, and the frames and bottom plates are aluminum alloy extruded profiles. Sheet metal stamping enclosures are stamped and formed by sheet metal in one piece, with crossbeams and longitudinal beams welded in a crisscross pattern in the middle. Sheet metal forming parts play a sealing role, and crossbeams and longitudinal beams play a structural support role. Roll-formed battery enclosures are similar to sheet metal stamping enclosures, with steel roll-formed profile frames, steel panels on the bottom, and crossbeams and longitudinal beams welded in the middle.

In terms of structural strength, steel roll-formed battery enclosures have the highest strength, followed by aluminum alloy enclosures, and sheet metal stamping enclosures have the lowest strength. Therefore, sheet metal stamping enclosures are used for battery packs that are lighter in weight and smaller in size. In terms of manufacturing cost, aluminum alloy enclosure has the highest cost due to the high cost of aluminum materials. The cost of steel rolled battery enclosure and sheet metal stamping enclosure is similar, but sheet metal stamping enclosure requires molds of different specifications for different models, and the mold cost is high. Steel rolled battery enclosure only needs to open the mold once, and can be transformed into enclosures of different models and sizes by adjusting the length and width of the rolled profile.

According to our data, the global shipment of Roll-formed Battery Enclosure will be

about 1.3 million units in 2024, and will reach 9 million units in 2031, with a compound annual growth rate of more than 30% during the test period. China occupies the largest downstream market, with a market share of more than 75% in 2024. Major global manufacturers include Suzhou Yichuangte Intelligent Manufacturing, Novelis, Lucky Harvest, Magna International, Changzhou Hugestone New Energy Technologies, Liuzhou Aode Yongxing Automotive Parts Technology, Forvia, Voestalpine Metal Forming GmbH, Suzhou Prysler Advanced Forming Technology, Ningbo Huaxiang Electronic, XD Thermal, Lingyun Industrial Corporation, Nabaichuan Holding, etc. In 2024, the global TOP5 market share will exceed 60%. In terms of product types, the European and American regions mainly use steel and aluminum Roll-formed Battery Enclosure products, among which Novelis products are the most famous for aluminum Roll-formed Battery Enclosure, while China basically uses high-strength steel and ultra-strong steel Roll-formed Battery Enclosure.

As an important component of electric vehicle power batteries, the unique process and design of Roll-formed Battery Enclosure bring many significant advantages. First of all, compared with traditional aluminum alloy Enclosure, the cost of parts of Roll-formed Battery Enclosure can be reduced by more than 30%. Through the thin-wall design of high-strength steel materials, it not only maintains lightweight but also enhances structural strength. Secondly, Roll-formed Battery Enclosure uses ultra-high-strength steel materials (such as 980DP, 1180DP), and its tensile strength is as high as 1500MPa or more, which can more effectively protect the battery system from external impact. In addition, Roll-formed technology adopts a multi-roller structure, and its production efficiency is more than 10% higher than that of traditional stamping, which is suitable for mass production. Moreover, Roll-formed is suitable for processing parts with complex shapes, which provides more possibilities for the innovative design of battery enclosure. In general, Roll-formed Battery Enclosure has broad application prospects in the mid- and low-end vehicle market due to its advantages of low cost, high strength, high production efficiency, light weight and environmental protection. We believe that Roll-formed Battery Enclosure will soon become a key solution that various car companies and battery pack manufacturers will compete to research and develop.

This report is a detailed and comprehensive analysis for global ?Roll-formed Battery Enclosure 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 ?Roll-formed Battery Enclosure market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global ?Roll-formed Battery Enclosure market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global ?Roll-formed Battery Enclosure market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global ?Roll-formed Battery Enclosure market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 ?Roll-formed Battery Enclosure

- 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 ?Roll-formed Battery Enclosure 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 Suzhou Yichuangte Intelligent Manufacturing, Novelis, Lucky Harvest, Magna International, Changzhou Hugestone New Energy Technologies, Liuzhou Aode Yongxing Automotive Parts Technology, Forvia, Voestalpine Metal Forming GmbH, Suzhou Prysler Advanced Forming Technology, Ningbo Huaxiang Electronic, etc.

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

Market Segmentation

?Roll-formed Battery Enclosure market is split by Type and by Application. For the period 2021-2032, 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

Aluminum Alloy Material

Steel Material

Market segment by Application

Passenger Vehicle

Commercial Vehicle

Major players covered

Suzhou Yichuangte Intelligent Manufacturing

Novelis

Lucky Harvest

Magna International

Changzhou Hugestone New Energy Technologies

Liuzhou Aode Yongxing Automotive Parts Technology

Forvia

Voestalpine Metal Forming GmbH

Suzhou Prysler Advanced Forming Technology

Ningbo Huaxiang Electronic

XD Thermal

Lingyun Industrial Corporation

Nabaichuan Holding

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 ?Roll-formed Battery Enclosure product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of ?Roll-formed Battery Enclosure, with price, sales quantity, revenue, and global market share of ?Roll-formed Battery Enclosure from 2021 to 2026.

Chapter 3, the ?Roll-formed Battery Enclosure competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the ?Roll-formed Battery Enclosure breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026.and ?Roll-formed Battery Enclosure market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 ?Roll-formed Battery Enclosure.

Chapter 14 and 15, to describe ?Roll-formed Battery Enclosure sales channel, distributors, customers, research findings and conclusion.

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