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Global Roll Forming Long Lithium Battery Cells Cans for EV Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Roll Forming Long Lithium Battery Cells Cans for EV competitive dynamics, regional economic interdependencies, and supply chain reconfigurations.The Long Lithium Battery, also known as the Blade Battery, is derived from the lithium iron phosphate (LFP) power battery launched by BYD in 2020. It is named for the flat, slender shape of its cells. Its core innovation lies in its module-less design, where cells are directly arranged into battery packs, eliminating the traditional module structure and improving space utilization. Roll-Forming Long Lithium Battery Cell Cans (LLBCs) refer to the aluminum casing for Blade Batteries, manufactured through a roll-forming process. Their key feature is the continuous rolling, welding, and straightening process that transforms aluminum strips into ultra-thin, elongated, sealed casings that provide both structural support and cell protection.As the core carrier of the global transportation energy revolution, the Electric Vehicles industry has shifted from a policy-driven to a market- and technology-driven development stage. In 2024, China's Electric Vehicle sales reached 12.866 million units, a year-on-year increase of 35.5%, ranking first in the world for 10 consecutive years. Batteries, as the core components of Electric Vehicle, directly affect the performance, endurance, safety and user experience of the vehicle. As an alternative energy carrier to traditional fuel engines, batteries are not only a source of power, but also the foundation for the development of vehicle intelligence and electrification.From the current battery form of Electric Vehicle, there are mainly ordinary square shell batteries, cylindrical batteries, Long Lithium Battery (Blade Batteries) and other types. Ordinary square shell batteries have high structural strength and good grouping efficiency (volume utilization rate of more than 60%), which are suitable for mainstream vehicle designs. Representative

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manufacturers include CATL, CALB Group, Gotion High-tech, etc. Square shell batteries are the battery form with the highest market share; the representative models of cylindrical batteries are mainly Tesla, and South Korea's LG is the main supplier. Cylindrical batteries can improve heat dissipation efficiency and single cell capacity compared to square shell batteries; Long Lithium Battery (Blade Batteries) are mainly derived from the evolution of the battery architecture of Electric Vehicle, from battery modules (CTM) to CTP, and then to CTB. Car companies represented by BYD have developed Long Lithium Battery (Blade Batteries) to improve the space utilization of battery packs and increase energy density. In March 2020, Long Lithium Battery (Blade Batteries) began mass production at BYD's Chongqing Fudi Battery Factory. The BYD Han EV, which was equipped with Long Lithium Battery (Blade Batteries) for the first time, has a range of 300 km. 605km, reaching the same endurance level as high-energy-density ternary battery electric vehicles. By the end of 2024, BYD's blade battery installed capacity has exceeded 200 GWh.As the core structural component of the blade battery, the battery cell shell is mainly used to accommodate and protect the internal battery cell materials. The battery cell shell is usually made of aluminum. According to different processes, the blade battery cell shell can be divided into extrusion molding, stamping molding, roll forming and other types. Extrusion and stamping processes are production processes from many years ago. Due to their own process defects and material performance limitations, they cannot meet the mileage requirements of Electric Vehicle and are gradually eliminated by the market. Roll welding not only breaks through the defects of the above two processes, but also solves the limitations of material performance. It will become the mainstream process in the Electric Vehicle market in the future. Currently, the number of roll-pressed blade battery cell shell manufacturers is only in the single digits, mainly including Shandong XinHeyuan, Shenzhen Kedali, Ningbo Zhenyu Technology, Fuzhixin New Energy Technology, GUANGZHOU LINGLONG TUBING TECHNOLOGY, Tai'an Dingtai Automotive Technology, Zhejiang Zhongze Precision Technology, Fischer Group, UNION ALUMINUM, Jiangsu Otepas New Energy Technology and other companies. According to our research data, the shipment volume of roll-pressed blade battery cell shells will exceed 130 million in 2024, of which Shandong XinHeyuan occupies about 60% of the market share.Roll-pressed blade battery cell shells can be divided into long blade and short blade products according to different types. Long Long Lithium Battery (Blade Batteries) are dominated by BYD Long Lithium Battery (Blade Batteries), and short blades are represented by Honeycomb Energy. In recent years, Zhongxinhang and Geely have also entered the short blade product market. According to our data, the market share of roll-pressed long blade battery shells will be nearly 90% in 2024, and roll-pressed short blade battery shells are developing rapidly at a high growth rate. From the application perspective, BEV is the most important downstream application. In 2024,

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BEV will account for about 85% of the market share, and PHEV will account for about 10% of the market share. Other fields such as energy storage applications have also been trial-produced and installed and are developing rapidly. In the future, with the coordinated development of long and short Long Lithium Battery (Blade Batteries), and the expansion of cross-field applications such as Electric Vehicle, energy storage, and construction machinery, the roller-pressed blade battery cell shell will usher in a broad market development space.

The global Roll Forming Long Lithium Battery Cells Cans for EV market size was estimated at USD 199.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 33.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Roll Forming Long Lithium Battery Cells Cans for EV market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Roll Forming Long Lithium Battery Cells Cans for EV market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Roll Forming Long Lithium Battery Cells Cans for EV market.

Global Roll Forming Long Lithium Battery Cells Cans for EV Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the

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overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Shandong XinHeyuan
Shenzhen Kedali
Ningbo Zhenyu Technology
Fuzhixin New Energy Technology
GUANGZHOU LINGLONG TUBING TECHNOLOGY
Tai'an Dingtai Automotive Technology
Zhejiang Zhongze Precision Technology
Fischer Group
UNION ALUMINUM
Jiangsu Otepas New Energy Technology

Market Segmentation (by Type)

Long Blade Type
Short Blade Type

Market Segmentation (by Application)

BEV
PHEV

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)

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The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Roll Forming Long Lithium Battery Cells Cans for EV Market
Overview of the regional outlook of the Roll Forming Long Lithium Battery Cells Cans for EV Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Roll Forming Long Lithium Battery Cells Cans for EV Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and

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restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Roll Forming Long Lithium Battery Cells Cans for EV, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the

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information you require quickly
Provision of market value data for each segment and sub-segment
Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market
Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region
Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled
Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players
The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions
Includes in-depth analysis of the market from various perspectives through Porter?s five forces analysis
Provides insight into the market through Value Chain
Market dynamics scenario, along with growth opportunities of the market in the years to come
6-month post-sales analyst support

Customization of the Report

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13 CONCLUSION AND KEY FINDINGS

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