

Global 4680 Large Cylindrical Battery Structural Parts Market Research Report 2026(Status and Outlook)

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Abstracts

The 4680 large cylindrical battery structural parts are quite different from the square battery structural parts, and are similar to the 2170 small cylindrical battery structural parts. There are three main changes between the 4680 battery structural parts and the 2170 battery structural parts. One is the thermal and electrical separation, the other is the addition of a current collecting plate, and the third is the increase in wall thickness. 4680 large cylindrical power battery structural parts use steel shells. For 4680 batteries, stamping and stretching are still the mainstream production process. However, due to changes in size and materials of 4680, the equipment needs to have greater stamping force and greater The maximum drawing height requires increased processing capabilities of stamping equipment. The industry has high technical barriers, and the full-ear design doubles the complexity of cover welding; high concentration, China Kedali, as a leading enterprise, monopolizes the core process (precision stamping + laser welding), and new entrants face a technical verification cycle of more than 3 years. In 2023, the company has already started mass production and supply. Based on the performance and cost advantages of large cylindrical lithium batteries, many domestic and foreign battery manufacturers and new energy vehicle companies have laid out the technical research and development and production line construction of large cylindrical lithium batteries such as 4680. Among them, Tesla, as a key role in promoting the installation of large cylindrical batteries, will significantly increase the installed capacity of 4680 batteries for its own supply in 2024. At the same time, the BMW Group announced in February 2025 that BMW's innovative large cylindrical batteries will be installed in 2025, and the new car will be equipped with BMW's sixth eDrive electric drive system. Domestic and foreign 4680 large cylindrical projects have been successively increased in production and put into mass production. Combined with the breakthroughs and follow-up of large cylindrical battery technology routes by international car companies represented by Tesla and BMW, this may bring a new

round of large cylindrical battery development opportunities and drive the growth of 4680 battery structural parts.

The global 4680 Large Cylindrical Battery Structural Parts market size was estimated at USD 261.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 20.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global 4680 Large Cylindrical Battery Structural Parts 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 4680 Large Cylindrical Battery Structural Parts 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 4680 Large Cylindrical Battery Structural Parts market.

Global 4680 Large Cylindrical Battery Structural Parts 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 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

Shenzhen Kedali Industry
Zhenyu Technology
Wuxi Jinyang New Material
Zhongrui Electronic Technology
Jie Jing Precision
Ningbo Fangzheng
Suzhou Dongshan Precision Manufacturing Co., Ltd.

Market Segmentation (by Type)

Nickel-plated Steel Shell
Battery Cap
Others

Market Segmentation (by Application)

Electric Vehicle
Home Energy Storage

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)

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 4680 Large Cylindrical Battery Structural Parts Market

Overview of the regional outlook of the 4680 Large Cylindrical Battery Structural Parts Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

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 4680 Large Cylindrical Battery Structural Parts 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 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 4680 Large Cylindrical Battery Structural Parts, 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 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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