

Global Steel Case for Cylindrical Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Steel Case for Cylindrical Battery market size is expected to reach \$ 600 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

A steel case for cylindrical battery refers to a steel or nickel-plated steel casing structure used for encapsulating cylindrical lithium-ion cells. It is a crucial component of the precision structure of cylindrical lithium batteries. This product primarily houses and protects the internal electrode assembly, separator, and electrolyte within the cell, while also providing mechanical support, sealing, impact resistance, thermal diffusion, safe pressure relief, and automated assembly positioning. A steel case for a cylindrical battery is not the battery cell itself, nor does it include the assembly cap, safety valve, terminals, cover plate, insulation components, pack housing, or battery pack casing.

Based on size specifications, steel cases for cylindrical batteries can be divided into small cylindrical steel cases and large cylindrical steel cases. Small cylindrical steel cases mainly cover specifications such as the 18, 21, 26, and 32 series, and are used in power tools, two-wheeled vehicles, small power systems, robots, low-altitude aircraft, portable power supplies, consumer electronics, and some energy storage applications. Large cylindrical steel cases mainly cover specifications such as the 46, 4680, 4695, and 46120 series, and are primarily used in power batteries for new energy vehicles and high-energy-density energy storage batteries. Compared with square aluminum cases and soft-pack packaging, cylindrical steel cases have advantages such as mature technology, good dimensional consistency, high mechanical strength, high automation production efficiency, and controllable costs. However, they have higher requirements for deep drawing, wall thickness control, roundness, nickel plating quality, surface cleanliness, thermal diffusion capability, and dimensional tolerance control. In 2025, the

global shipment volume of Steel Cases for Cylindrical Batteries was approximately 8.5 billion units, with an average unit price of approximately US\$0.038 and a gross profit margin of approximately 13%.

As cylindrical lithium-ion batteries continue to penetrate the fields of power tools, two-wheeled vehicles, small power systems, robots, low-altitude aircraft, portable energy storage, consumer electronics, and new energy vehicles, cylindrical lithium-ion battery steel cases, as a key structural component for cell packaging, are upgrading from traditional metal stamping parts to high-precision, high-consistency, and high-safety core battery components. The steel casing not only determines the cell's dimensions and packaging reliability but also directly impacts the battery's mechanical strength, thermal conductivity, safe pressure relief compatibility, automated assembly efficiency, and manufacturing yield. For high-rate, high-energy-density, and long-life cylindrical cells, casing material, wall thickness consistency, roundness control, nickel plating quality, and clean manufacturing standards have become crucial guarantees for stable mass production.

From a demand perspective, small cylindrical steel casings remain the market foundation, with 18-series, 21-series, 26-series, and 32-series cells maintaining stable demand in power tools, two-wheeled vehicles, portable power supplies, robots, and small-scale power applications. Large cylindrical steel casings represent the segment with the greatest growth potential in the coming years. As large cylindrical batteries such as the 46-series, 4680, and 4695 accelerate their industrialization in new energy vehicles and high-energy-density energy storage applications, the requirements for high precision, low cost, compatibility with higher battery heights, thermal conductivity, and dimensional consistency in steel-cased products are significantly increasing. Compared to ordinary small cylindrical shells, large cylindrical steel shells have a higher unit value, longer customer certification cycles, and higher technological barriers, making them more likely to form supply chain barriers.

Industry competition will shift from simple capacity expansion to precision manufacturing capabilities, customer certification capabilities, and global supply chain capabilities. Cylindrical lithium-ion battery steel shell manufacturers need to simultaneously possess capabilities in metal material processing, precision mold development, deep drawing forming, surface nickel plating, clean manufacturing, online testing, and stable batch delivery. In the future, companies with experience in mass production of large cylindrical steel shells, large-scale production capacity of small cylindrical steel shells, and the ability to supply power battery customers will gain greater bargaining power in the cylindrical battery industry chain. As battery sizes evolve towards larger diameters and

greater heights, cylindrical steel shells will no longer be just low-value metal parts, but rather crucial structural components affecting cell safety, energy density, and automated manufacturing efficiency.

This report studies the global Steel Case for Cylindrical Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Steel Case for Cylindrical Battery and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Steel Case for Cylindrical Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Steel Case for Cylindrical Battery total production and demand, 2021-2032, (K Units)

Global Steel Case for Cylindrical Battery total production value, 2021-2032, (USD Million)

Global Steel Case for Cylindrical Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Steel Case for Cylindrical Battery consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Steel Case for Cylindrical Battery domestic production, consumption, key domestic manufacturers and share

Global Steel Case for Cylindrical Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Steel Case for Cylindrical Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Steel Case for Cylindrical Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Steel Case for Cylindrical Battery market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sangsin EDP, H&T Recharge, Wuxi Jinyang Precision Manufacturing Co., Ltd., Xinxiang Shengda Power Technology Co., Ltd., Changzhou Wujin Zhongrui Electronic Technology Co., Ltd., Xinxiang Zhengyuan Electronic Materials Co., Ltd., Taixing Haoyu Satellite Technology Co., Ltd., Shenzhen Kedali Industry Co., Ltd., Ningbo Zhenyu Technology Co., Ltd., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Steel Case for Cylindrical Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Steel Case for Cylindrical Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Steel Case for Cylindrical Battery Market, Segmentation by Type:

Large Cylindrical Steel Case

Small Cylindrical Steel Case

Others

Global Steel Case for Cylindrical Battery Market, Segmentation by Material:

Nickel-Plated Steel

Stainless Steel

High-Strength Thin-Wall Steel

Others

Global Steel Case for Cylindrical Battery Market, Segmentation by Cell Size:

18 Series

21 Series

26 And 32 Series

46 Series

Others

Global Steel Case for Cylindrical Battery Market, Segmentation by Application:

Cordless Power Tools

E-Bikes And Scooters

Robots And Low-Altitude Aircraft

EV Battery Packs

Others

Companies Profiled:

Sangsin EDP

H&T Recharge

Wuxi Jinyang Precision Manufacturing Co., Ltd.

Xinxiang Shengda Power Technology Co., Ltd.

Changzhou Wujin Zhongrui Electronic Technology Co., Ltd.

Xinxiang Zhengyuan Electronic Materials Co., Ltd.

Taixing Haoyu Satellite Technology Co., Ltd.

Shenzhen Kedali Industry Co., Ltd.

Ningbo Zhenyu Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Steel Case for Cylindrical Battery market?
2. What is the demand of the global Steel Case for Cylindrical Battery market?
3. What is the year over year growth of the global Steel Case for Cylindrical Battery market?
4. What is the production and production value of the global Steel Case for Cylindrical Battery market?
5. Who are the key producers in the global Steel Case for Cylindrical Battery market?
6. What are the growth factors driving the market demand?

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