

Global Cylinder Battery Winding Machine 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 Cylinder Battery Winding Machine market size was valued at US\$ 1501 million in 2025 and is forecast to a readjusted size of US\$ 2320 million by 2032 with a CAGR of 6.1% during review period.

Cylindrical battery winding machines are core equipment in the lithium-ion battery manufacturing process. Their function is to precisely wind the positive electrode sheet, negative electrode sheet, and separator into a cylindrical cell structure according to predetermined tension and position. Widely used in 18650, 21700, and 4680 cylindrical battery production lines, they are one of the key pieces of equipment in the manufacturing of power batteries, energy storage batteries, and consumer electronics batteries. This process directly affects the battery's energy density, consistency, and safety. The winding process is one of the most critical forming steps in lithium battery production, determining the stability of the cell structure and production efficiency. In 2025, global sales of cylindrical battery winding machines were approximately 2,280 units, with an average unit price of approximately US\$640,000 and an overall industry capacity utilization rate of approximately 78%. The upstream of the industry chain mainly comes from the lithium battery equipment, component, and material sectors, including precision machining, servo motors, linear guides, industrial control systems, laser processing equipment, and automation component companies. The midstream consists of battery production equipment manufacturers, while the downstream comprises power battery, energy storage battery, and consumer electronics battery manufacturers. The industry's average gross profit margin is approximately 28%. The product cost structure mainly includes core mechanical structure and precision machining (approximately 38%), servo control systems and electrical systems

(approximately 24%), precision transmission and motion control components (approximately 16%), R&D and software systems (approximately 12%), and assembly and testing (approximately 10%). On the demand side, the downstream demand list mainly includes new energy vehicle power batteries, power tool batteries, energy storage batteries, consumer electronics batteries, and light electric vehicle batteries. The downstream customer list mainly includes battery manufacturers such as CATL, BYD, LG Energy Solution, Panasonic, Samsung SDI, EVE Energy, Sunwoda, and Guoxuan High-Tech. In terms of business opportunities, policy-driven factors mainly come from national policies promoting new energy vehicles and supporting the energy storage industry, driving the continuous expansion of battery production capacity. Technological innovation is mainly reflected in the development of large cylindrical 4680 batteries, all-tab structures, and high-speed automated production lines, significantly increasing the demand for high-precision, high-speed winding equipment. Regarding changes in consumer demands, the increased range of electric vehicles, the lightweighting of consumer electronics products, and the expansion of energy storage systems have increased the demand for high-energy-density cylindrical batteries, thereby driving the continued development of the winding equipment market.

The cylindrical battery winding machine industry occupies a crucial position in the new energy equipment industry chain, and its future development is highly correlated with the new energy vehicle, electrochemical energy storage, and consumer electronics markets. With the continued growth in global new energy vehicle sales and the rapid development of the energy storage industry, battery capacity expansion remains a long-term trend, providing a stable demand foundation for winding equipment. Simultaneously, large cylindrical battery technology is becoming one of the important development directions for power batteries. New cell structures such as the 4680 series place higher demands on winding precision, speed, and automation, driving equipment companies to continuously upgrade their technologies. On the other hand, competition in the equipment industry is gradually intensifying. Decreasing prices and increased customer concentration mean that equipment manufacturers need to rely on technological innovation, complete line solutions capabilities, and global service capabilities to maintain competitiveness. From a regional perspective, Chinese equipment companies have already established a strong advantage in the lithium battery equipment field, possessing competitiveness in automation, cost control, and production scale, and are gradually expanding their overseas market share. In the coming years, with the upgrading of power battery production lines, the explosive growth in demand for energy storage batteries, and the iteration of consumer electronics batteries, high-speed, intelligent, and integrated equipment will become the main development direction of the industry. Companies that can provide complete line

equipment and digital production solutions are more likely to obtain orders from large battery manufacturers, thus occupying a more advantageous position in the industry.

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

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

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

Global Cylinder Battery Winding Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Cylinder Battery Winding Machine
- 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 Cylinder Battery Winding Machine 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 Kaido Manufacturing Co Ltd, CKD

Corporation, Koem, TOYO SYSTEM, Wuxi Lead Intelligent Equipment, Shenzhen Yinghe Technology, Higrand Technology, Shenzhen chengjie Intelligent equipment, Guangdong Lyric Robot Automation, SHENZHEN XINYICHANG TECHNOLOGY, etc.

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

Market Segmentation

Cylinder Battery Winding Machine 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

Semi Automatic Winding Machine

Full Automatic Winding Machine

Market segment by Single-Unit Capacity

Less Than 15 PPM

15–20 PPM

Above 20 PPM

Market segment by Yield Rate

Below 99%

99%

99.5%

Market segment by Application

- Automotive Lithium Battery
- Consumer Electronic Lithium Battery
- Energy Storage Lithium Battery
- Other

Major players covered

- Kaido Manufacturing Co Ltd
- CKD Corporation
- Koem
- TOYO SYSTEM
- Wuxi Lead Intelligent Equipment
- Shenzhen Yinghe Technology
- Higrand Technology
- Shenzhen chengjie Intelligent equipment
- Guangdong Lyric Robot Automation
- SHENZHEN XINYICHANG TECHNOLOGY
- ShenZhen MTI Corporation
- Geesun Intelligent Technology
- Roder Electronics Machinery

Xiamen Tmax Battery Equipments Limited

IAMEN TOB NEW ENERGY TECHNOLOGY

XIAMEN ACEY NEW ENERGY TECHNOLOGY

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 Cylinder Battery Winding Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cylinder Battery Winding Machine, with price, sales quantity, revenue, and global market share of Cylinder Battery Winding Machine from 2021 to 2026.

Chapter 3, the Cylinder Battery Winding Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cylinder Battery Winding Machine 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 Cylinder Battery Winding Machine 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 Cylinder Battery Winding Machine.

Chapter 14 and 15, to describe Cylinder Battery Winding Machine sales channel, distributors, customers, research findings and conclusion.

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