

Global Automatic Lithium Battery Winding Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automatic Lithium Battery Winding Machine market size is expected to reach \$ 3373 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

The automatic lithium battery winding machine is a core automation system used in the midstream cell-forming stage of lithium-ion battery manufacturing. It is mainly designed to continuously assemble coated, calendared, slit, die-cut, or pre-processed cathode sheets, anode sheets, and separators into bare jelly rolls required for cylindrical, prismatic, button, or small polymer cells according to preset tension, position, speed, and winding paths. The equipment addresses the limitations of manual or low-speed winding in electrode alignment, separator coverage, tension fluctuation, tab positioning, dust control, takt stability, and batch-to-batch consistency. It usually integrates automatic unwinding, splicing and reel changeover, edge-position correction, closed-loop tension control, winding mandrel forming, tab welding or tab forming, end-tape application, online vision inspection, short-circuit testing, dust removal, unloading, and data traceability. Its typical applications cover power batteries for new energy vehicles, energy storage batteries, 3C consumer batteries, large cylindrical cells, large-capacity prismatic cells, and pilot cell production lines. Its main customers include battery manufacturers, integrated production line suppliers, R&D and pilot platforms, and cell process validation institutions.

The industrial value of automatic lithium battery winding machines comes from the long-term demand for highly consistent cell-forming processes in cell manufacturing. Lithium battery production is not simply a matter of rolling cathode sheets, anode sheets, and separators into a jelly roll. Instead, it requires maintaining stable electrode edge positioning, separator coverage, tab position, winding tension, dust control, and end-

tape condition under high-speed continuous operation. Any slight deviation may be amplified during subsequent electrolyte filling, formation, cycling, and safety testing, thereby affecting cell yield and customer qualification results. Therefore, competition in winding machines is not merely about mechanical speed, but about the combined capabilities of motion control, vision inspection, closed-loop tension control, process databases, reel changeover efficiency, and abnormal product rejection. As battery manufacturers shift from extensive capacity expansion to high-quality manufacturing, equipment suppliers must prove that their machines can maintain stable takt time, low downtime, and traceable data over long production cycles. This makes suppliers with mature project experience and service networks more likely to secure continuous orders from core customers. From the perspective of product evolution, automatic lithium battery winding machines are moving from standalone winding equipment toward multi-process integrated equipment. In the cylindrical battery segment, large cylindrical cells and all-tab designs have raised the requirements for high-speed electrode insertion, automatic reel changeover, laser cutting, tab welding, and online inspection. Traditional low-speed equipment can no longer meet the takt time and consistency requirements of large-scale production. In the prismatic power and energy storage battery segments, longer electrodes, wider electrodes, and larger jelly roll dimensions require stronger tension control, edge-position correction, structural rigidity, and cross-format compatibility. In the 3C and small battery segments, customers place greater emphasis on multi-model changeover, compact equipment structure, and high yield. As a result, the product landscape now includes standalone winding machines, notching and winding integrated machines, laser cutting and winding integrated machines, welding and winding integrated machines, and complete-line integrated systems. Future equipment value will increasingly come from process integration, closed-loop inspection, intelligent maintenance, and data traceability, rather than simply from growth in the number of mechanical units. From the perspective of market structure, supply capability in automatic lithium battery winding machines is increasingly concentrating among companies with mass-production validation, line-integration capability, and global service capacity. In the early stage, Japanese, Korean, European, and American specialist winding equipment companies accumulated strong experience in precision machinery and process know-how. Chinese equipment suppliers, relying on the expansion of power battery and energy storage battery capacity, have rapidly improved in delivery speed, complete-line integration, customization response, and cost control. As global battery capacity becomes distributed across manufacturing clusters in China, Japan, South Korea, Europe, North America, and Southeast Asia, equipment competition will increasingly depend on localized commissioning, spare-parts supply, field service coverage, and cross-regional project management capability. In the medium to long term, power batteries will remain an important validation scenario for

high-end equipment, energy storage batteries will provide sustained scale demand, and consumer and R&D pilot markets will offer diversified supplementary demand. The industry outlook is generally positive, but the competitive threshold will shift from whether a supplier can build the equipment to whether it can support customers' long-term high-yield production.

This report studies the global Automatic Lithium Battery Winding Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automatic Lithium Battery Winding Machine 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 Automatic Lithium Battery Winding Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automatic Lithium Battery Winding Machine total production and demand, 2021-2032, (Units)

Global Automatic Lithium Battery Winding Machine total production value, 2021-2032, (USD Million)

Global Automatic Lithium Battery Winding Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Automatic Lithium Battery Winding Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Automatic Lithium Battery Winding Machine domestic production, consumption, key domestic manufacturers and share

Global Automatic Lithium Battery Winding Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Automatic Lithium Battery Winding Machine production by Winding Station, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Automatic Lithium Battery Winding Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Automatic Lithium Battery Winding Machine 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 Kaido Manufacturing, Wuxi Lead

Intelligent Equipment, CKD, Shenzhen Yinghe Technology, KOEM, Zhuhai Higrand Technology, Shenzhen Chengjie Intelligent Equipment, Shenzhen Geesun Intelligent Technology, Metar Machines, Hilton International Industries, 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 Automatic Lithium Battery Winding Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Winding Station, 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 Automatic Lithium Battery Winding Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automatic Lithium Battery Winding Machine Market, Segmentation by Winding Station:

Single-Station

Dual-Station

Three-Station

Multi-Station

Global Automatic Lithium Battery Winding Machine Market, Segmentation by Inspection Configuration:

Basic Control

Closed-Loop Tension and Edge Correction

Vision Inspection

Data Traceability

Other

Global Automatic Lithium Battery Winding Machine Market, Segmentation by Cell Format:

Cylindrical Cell

Prismatic Cell

Pouch Cell

Button Cell

Other

Global Automatic Lithium Battery Winding Machine Market, Segmentation by Application:

Consumer Electronics Battery

New Energy Vehicle Battery

Energy Storage Battery

Industrial Specialty Battery

Other

Companies Profiled:

Kaido Manufacturing

Wuxi Lead Intelligent Equipment

CKD

Shenzhen Yinghe Technology

KOEM

Zhuhai Higrand Technology

Shenzhen Chengjie Intelligent Equipment

Shenzhen Geesun Intelligent Technology

Metar Machines

Hilton International Industries

TOB New Energy Technology

Roder Electronics Machinery

Hymson Laser Technology Group

Xiaowei New Energy

Key Questions Answered:

1. How big is the global Automatic Lithium Battery Winding Machine market?
2. What is the demand of the global Automatic Lithium Battery Winding Machine market?
3. What is the year over year growth of the global Automatic Lithium Battery Winding Machine market?
4. What is the production and production value of the global Automatic Lithium Battery Winding Machine market?
5. Who are the key producers in the global Automatic Lithium Battery Winding Machine market?
6. What are the growth factors driving the market demand?

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