

Global Battery Cell Intelligent 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 Battery Cell Intelligent Winding Machine market size was valued at US\$ 1186 million in 2025 and is forecast to a readjusted size of US\$ 3742 million by 2032 with a CAGR of 17.8% during review period.

The battery cell intelligent winding machine is a core piece of equipment in the manufacturing process of lithium-ion, sodium-ion, and other battery cells; it automatically winds the positive electrode sheet, negative electrode sheet, and separator into a cell core?or 'jelly roll'?according to preset parameters for tension, speed, alignment precision, and winding path. It is primarily utilized in the production of cylindrical cells, prismatic cells, and certain pouch cells. Compared to traditional winding equipment, intelligent cell winding machines typically integrate advanced functions such as automatic unwinding, web guiding, tension control, tab positioning, defect detection, machine vision, automatic roll changing, data acquisition, and process parameter traceability. These capabilities enhance the consistency of the cell core, mitigate the risks of short circuits and misalignment, and significantly boost the levels of automation, yield rates, and production capacity within battery manufacturing lines; thus, they serve as critical machinery in the intelligent manufacturing of power batteries, energy storage batteries, and consumer electronics batteries.

The upstream segment of the battery cell intelligent winding machine industry chain primarily comprises components such as servo motors, PLCs/motion controllers, tension control systems, CCD vision inspection systems, web guiding mechanisms, precision linear guides, bearings, pneumatic components, sensors, cutting dies, fixtures, sheet metal frames, and MES/data acquisition software. Among these, the core control

systems, vision inspection systems, and precision transmission components present particularly high technological barriers to entry. The midstream segment consists of manufacturers of winding machines—including integrated sheet-making and winding machines—who are responsible for equipment design, assembly, commissioning, process adaptation, and complete line integration; their products primarily cover the winding processes for cylindrical, prismatic, and select pouch-type battery cells. The downstream segment consists mainly of manufacturers of power batteries, energy storage batteries, consumer batteries, and solid-state/semi-solid-state batteries, where these machines are deployed during the mid-stream cell manufacturing phase. According to the annual report of Yinghe Technology, its portfolio of automated lithium battery equipment encompasses core machinery such as coating machines, calendaring machines, slitting machines, sheet-making machines, winding machines, and stacking machines; specifically, its winding machines are primarily utilized for the winding of prismatic or cylindrical lithium-ion battery cells. Similarly, Lead Intelligent integrates cell manufacturing, battery assembly, testing, module/PACK assembly, and MES into its comprehensive equipment solutions for complete lithium battery production lines. The gross profit margin for intelligent cell winding machines stands at approximately 31%.

In 2025, the average unit price for intelligent cell winding machines is projected to be \$200 k with a projected sales volume of 5,765 units against a total production capacity of 8,200 units.

The battery cell intelligent winding machine constitutes a critical link within the mid-stream equipment segment of battery manufacturing; its core value lies in enhancing the consistency of the wound core and boosting production efficiency. As power batteries and energy storage batteries evolve toward higher capacities, higher discharge rates, and enhanced safety standards, the demands placed on cell winding—specifically regarding electrode alignment precision, separator tension stability, winding speed, and defect detection capabilities—are continuously escalating. While traditional winding machines primarily addressed the fundamental challenge of 'being able to wind,' intelligent winding machines emphasize 'high speed, precision, stability, and traceability'—factors that directly impact cell yield rates, safety, and manufacturing costs.

Industry competition is shifting from a focus on individual machines to a focus on whole-line integration and process synergy. Intelligent cell winding machines are no longer merely standalone devices; they must now operate in seamless coordination with laser die-cutting, electrode preparation, tape application, inspection, material handling, MES

systems, and downstream assembly equipment. The competitive advantage of leading equipment manufacturers is demonstrated not only through superior mechanical structures and control precision but also through their deep understanding of diverse cell technology roadmaps, client-specific process parameters, and the complexities of large-scale mass production. Consequently, companies capable of delivering a comprehensive solution?encompassing 'winding machines + integrated electrode preparation and winding units + inspection systems + complete production lines'?are better positioned to secure orders from major battery manufacturers.

In the future, battery cell intelligent winding machines will evolve toward higher speeds, greater precision, digitalization, and enhanced flexibility. On one hand, products such as large cylindrical cells, prismatic energy storage cells, and high-energy-density power batteries will drive the technological upgrading of winding equipment. On the other hand, battery manufacturers' demands for cost reduction, efficiency gains, and yield improvement will drive the integration of advanced features into equipment?including AI-powered visual inspection, automatic alignment correction, closed-loop tension control, anomaly pre-warning systems, and process data traceability. Future industry growth will stem not only from newly added battery production capacity but also from the retrofitting of existing production lines, domestic substitution initiatives, capacity expansions at overseas battery plants, and the upgrading of novel battery manufacturing processes.

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

Global Battery Cell Intelligent 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 Battery Cell Intelligent 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 Battery Cell Intelligent 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 Battery Cell Intelligent 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 Battery Cell Intelligent 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 Schuler, Digatron Systems, MSE Supplies, MTI Corporation, Wuxi Lead Intelligent Equipment, Yinghe Technology, Lyric Robot, GEESUN, Hymson Laser, KATOP Automation, etc.

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

Market Segmentation

Battery Cell Intelligent 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

Cylindrical Winding Machine

Square Winding Machine

Market segment by Number of Workstations

Single-Station Winding Machine (1 Winding Station)

Dual-Station Winding Machine (2 Winding Stations)

Multi-Station Winding Machine (?3 Winding Stations)

Market segment by Degree of Automation

Semi-Automatic Winding Machine

Fully Automatic Winding Machine

Intelligent Winding Machine

Market segment by Application

Consumer Electronics

New Energy Vehicles

Others

Major players covered

Schuler

Digatron Systems

MSE Supplies

MTI Corporation

Wuxi Lead Intelligent Equipment

Yinghe Technology

Lyric Robot

GEESUN

Hymson Laser

KATOP Automation

TOB New Energy

WinAck Battery

CKD

Kaido Manufacturing

Hohsen

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

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

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

Chapter 4, the Battery Cell Intelligent 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 Battery Cell Intelligent 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 Battery Cell Intelligent Winding Machine.

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

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