

Global Electrode Slitting Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electrode Slitting Machine market size is expected to reach \$ 1271 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

The electrode slitter is a key front-end equipment in the lithium-ion battery electrode manufacturing process. It is mainly used to continuously cut the positive or negative coil that has been coated, dried and rolled into narrow width electrode sheets according to the design requirements of the cell. Through the functions of tension control, deviation correction control, circular knife or laser cutting, dust and iron removal, edge quality control, online detection and stable winding, the electrode sheets have the dimensional consistency and edge reliability of entering the die-cutting, film making, winding, lamination or subsequent assembly process. The core problem solved by the equipment is not simple cutting, but to reduce the quality risks such as burr, crack, exposed foil, fold, serpentine edge, particle pollution and winding stagger under the condition of high-speed continuous operation, so as to reduce the probability of battery short circuit, yield loss and subsequent process shutdown. Its typical customers include battery cell manufacturing enterprises, battery material verification institutions, solid-state battery trial production lines, scientific research institutes and equipment integrators of the whole lithium battery line. Their procurement focuses on the slitting speed, width accuracy, tension stability, burr control, cleanliness, type change efficiency, tool life and linkage ability with upstream rolling and downstream production equipment.

The industrial value of electrode slitting machines comes from the lithium battery manufacturing sector's continuous pursuit of electrode dimensional consistency and edge reliability. As power batteries and energy-storage batteries move toward higher energy density, higher safety standards, and larger-scale manufacturing, electrode slitting is no longer a simple web-cutting process. It has become a critical quality-control

node that affects cell yield, safety, and downstream assembly stability. After coating, drying, and calendaring, cathode and anode electrodes must be cut into narrow rolls that match cell specifications. Burrs, cracks, exposed foil, dust, zigzag edges, and tension fluctuations generated during slitting can all develop into short-circuit risks or consistency problems during winding, stacking, electrolyte filling, and long-term cycling. Therefore, equipment competition is shifting from the ability to cut materials to the ability to maintain stable tension, precise width, low burrs, low contamination, and traceable inspection during high-speed operation. For downstream customers, purchasing an electrode slitting machine is essentially purchasing process capability for controlling cell-manufacturing risk, rather than simply purchasing a mechanical machine.

In terms of product form, electrode slitting machines are developing into a structure where laboratory equipment, pilot-line equipment, mass-production standalone machines, and integrated compound systems coexist. Laboratory and pilot-line equipment focuses on compatibility with different material systems, lower purchasing thresholds, and fast process validation, making it suitable for material companies, research institutions, and solid-state battery development projects. Mass-production equipment places more emphasis on wide-web operation, high speed, automatic roll change, continuous rewinding, CCD closed-loop control, dust and iron removal, and data linkage with production-line systems. Integrated compound systems represent an important path of technological upgrading. Calendaring and slitting integrated machines reduce handling and secondary-positioning errors after calendaring, while laser notching and slitting integrated machines combine tab forming, slitting, inspection, and dust removal on one equipment platform, helping improve line takt time and reduce floor-space and labor requirements. Future upgrades will focus on higher line speed, tighter burr control, higher width accuracy, lower particle contamination, and stronger digital traceability. Companies that can understand materials processing, cell structure, and automation control at the same time are more likely to obtain certification from high-end customers.

From the perspective of competition and regional structure, China, Japan, South Korea, and Europe are the core supply regions for electrode slitting machines. Chinese companies have a large supplier base and broad product coverage, offering laboratory and pilot equipment as well as automated standalone machines and turnkey line integration solutions for large-scale battery factories. They also have clear advantages in delivery lead time, cost control, and collaboration with local customers. Japanese and South Korean companies have accumulated experience in precision machinery, roll-to-roll control, long-term stability, and customer certification, making them suitable for projects requiring high consistency and reliability. European companies are more

characterized by high-end web handling, tension control, and localized manufacturing capabilities, benefiting from the localization of the European battery supply chain. Demand will continue to follow the expansion of power batteries, energy-storage batteries, consumer batteries, and new battery pilot lines. Especially as new capacity increases in Europe, North America, and Southeast Asia, electrode slitting equipment is expected to shift from standalone equipment purchasing toward coordinated procurement with upstream coating and calendering, midstream sheet making and winding, and digital quality systems. The overall industry outlook remains positive.

This report studies the global Electrode Slitting Machine production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Electrode Slitting Machine total production and demand, 2021-2032, (Units)

Global Electrode Slitting Machine total production value, 2021-2032, (USD Million)

Global Electrode Slitting Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Electrode Slitting Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Electrode Slitting Machine domestic production, consumption, key domestic manufacturers and share

Global Electrode Slitting Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Electrode Slitting Machine production by Equipment Automation Level, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Electrode Slitting Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Electrode Slitting 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 Wuxi Lead Intelligent Equipment, Shenzhen

Yinghe Technology, TOB New Energy Technology, Xiamen Tmax Battery Equipments, AOT Battery, Xiamen Acey New Energy Technology, Gelon LIB Group, Xiaowei New Energy, Guangdong AME Energy, ACEM Energy, 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 Electrode Slitting 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 Equipment Automation Level, 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 Electrode Slitting Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electrode Slitting Machine Market, Segmentation by Equipment Automation Level:

Manual

Semi-Automatic

Fully Automatic

Global Electrode Slitting Machine Market, Segmentation by Cutting Method:

Rotary Knife Slitting

Laser Slitting

Straight Knife Cutting

Other

Global Electrode Slitting Machine Market, Segmentation by Compatible Cell Format:

Cylindrical Cell

Prismatic Cell

Pouch Cell

Multi-Format Compatible

Other

Global Electrode Slitting Machine Market, Segmentation by Application:

Laboratory R&D

Material Pilot Validation

Power Battery Mass Production

Energy Storage Battery Mass Production

Other

Companies Profiled:

Wuxi Lead Intelligent Equipment

Shenzhen Yinghe Technology

TOB New Energy Technology

Xiamen Tmax Battery Equipments

AOT Battery

Xiamen Acey New Energy Technology

Gelon LIB Group

Xiaowei New Energy

Guangdong AME Energy

ACEM Energy

Calemard

Comexi

Hohsen

Nagano Automation

PNT

MTI Corporation

Wuxi Jinyang Machinery

Key Questions Answered:

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

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