Battery Manufacturing Equipment Market by Electrode Stacking Machines, Calendering Machines, Slitting Machines, Mixing, Coating & Drying, Assembling, Formation & Testing Machines, Lithium-ion Battery (NMC, LFP, NCA, LCO, LMO, LTO) -Global Forecast to 2030

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Report description:

With a CAGR of 18.8%, the global battery manufacturing equipment market is projected to grow from USD 15.63 billion in 2025 to USD 36.94 billion by 2030. Market expansion is driven by the rapid rise of electric mobility, growing demand for energy storage systems, and increasing adoption of automated, high-precision manufacturing technologies. Equipment such as coating, calendering, cell assembly, and formation systems is being widely deployed to improve production efficiency, consistency of quality, and scalability in gigafactory operations. The integration of AI, robotics, and IoT-enabled platforms is transforming battery production by enabling predictive maintenance, digital process control, and real-time performance optimization. Additionally, strong government incentives for clean energy manufacturing and the push for localized battery production across major regions are further supporting market growth. As manufacturers focus on sustainability, cost efficiency, and production flexibility, the battery manufacturing equipment market is set to play a pivotal role in driving global electrification and shaping the future of advanced energy manufacturing.

https://mnmimg.marketsandmarkets.com/Images/battery-production-machine-market-img-overview.webp

"Coating & drying machines to record strong growth with rising focus on high-precision battery production"
The coating & drying machines segment is projected to grow at a significant CAGR in the battery manufacturing equipment market during the forecast period, driven by increasing demand for high-precision and energy-efficient electrode manufacturing. These machines are crucial for achieving uniform material coating and consistent electrode performance, which directly impact

battery capacity, efficiency, and overall quality. Manufacturers are investing in automated, AI-enabled, and energy-optimized coating and drying systems to enhance throughput, reduce defects, and lower operational costs. The growing need for process consistency, scalability, and material optimization in large-scale battery production is further driving the adoption of equipment. Supported by the rapid expansion of EV and energy storage manufacturing facilities, along with the push for sustainable and high-performance battery technologies, the coating and drying machines segment is expected to register strong growth, becoming a vital component of the global battery manufacturing ecosystem.

"Automotive segment to grow with the highest CAGR driven by expanding EV production"
The automotive segment is projected to grow at the highest CAGR in the battery manufacturing equipment market during the forecast period, fueled by the rapid global shift toward electric mobility and rising investments in EV battery production facilities. Automakers are increasingly focusing on in-house and localized battery manufacturing to secure supply chains, reduce costs, and enhance technological competitiveness. This trend is driving significant demand for advanced equipment used in electrode manufacturing, cell assembly, formation, and testing processes that ensure precision, scalability, and efficiency. The integration of automation, robotics, and digital monitoring systems is further transforming EV battery production, enabling higher output and improved quality control. Additionally, government incentives promoting clean transportation and sustainable manufacturing are accelerating the deployment of large-scale gigafactories. As electric vehicle adoption continues to surge across major markets, the automotive segment will remain the primary driver of growth for the battery manufacturing equipment market, reinforcing global efforts toward decarbonization and industrial electrification.

"Asia Pacific to witness the highest growth driven by expanding gigafactories and strong government support"
The Asia Pacific region is expected to achieve the highest CAGR in the battery manufacturing equipment market, driven by rapid electric vehicle production, investments in energy storage, and the establishment of large-scale battery gigafactories in countries such as China, Japan, South Korea, and India. Government support for clean energy and industrial automation, along with a skilled labor force and strong supply chain, enhances the region's competitive advantage. The adoption of automated and AI-enabled production systems is boosting efficiency. Major industry players are expanding R&D and production in the region to meet rising demand. As electrification and renewable energy continue to grow, the Asia Pacific is expected to remain the leading region in the battery manufacturing equipment market.

Breakdown of primaries
A variety of executives from key organizations operating in the battery manufacturing equipment market were interviewed in-depth, including CEOs, marketing directors, and innovation and technology directors.
- By Company Type: Tier 1-40%, Tier 2-35%, and Tier 3-25%
- By Designation: Directors-40%, C-level-45%, and Others-15%
- By Region: Asia Pacific-41%, North America-26%, Europe-28%, and RoW-5%

Note: The RoW region includes the Middle East, Africa, and South America. Other designations include product, sales, and marketing managers. Three tiers of companies have been defined based on their total revenue as of 2024: Tier 3, with revenue less than USD 300 million; Tier 2, with revenue between USD 300 million and USD 1 billion; and Tier 1, with revenue exceeding USD 1 billion.

Major players profiled in this report: Hitachi High-Tech Corporation (Japan), Durr Group (Germany), ANDRITZ Schuler GmbH (Germany), Nordson Corporation (US), Lead Intelligent Equipment Co., Ltd. (China), Yinghe Technology Co., Ltd. (China), Lyric (China), Buhler (Switzerland), ROSENDAHL NEXTROM (Austria), HIRANO TECSEED Co., Ltd. (Japan), CKD Corporation (Japan), Mondragon Assembly (Spain), Semco Infratech (India), DAIICHI JITSUGYO CO., LTD. (Japan), Charles Ross & Son Company (US), Nagano Automation (Japan), Foshan Golden Milky Way Intelligent Equipment Co., Ltd. (China), Kampf LSF (Germany), Jiangsu KATOP Automation Co., Ltd. (China), Targray (Canada), Xiamen Tmax Battery Equipments Limited (China), Xiamen Lith Machine

Limited (China), XIAMEN TOB NEW ENERGY TECHNOLOGY Co., LTD. (China), Gelon LIB Group Co., Ltd. (China), and Xingtai Zhaoyang Machinery Manufacturing Co., Ltd. (China). These leading companies offer a wide range of advanced equipment solutions, spanning electrode manufacturing, coating, calendering, cell assembly, and testing, and have a strong global presence across established and emerging battery production markets.

Research Coverage
This report on the battery manufacturing equipment market offers a comprehensive analysis, categorized by battery type, machine type, application, and region. By battery type, the market is segmented into NCA, NMC, LFP, LMO, LCO, and LTO. By machine type, it covers mixing machines, coating and drying machines, calendering machines, slitting machines, electrode stacking machines, assembling and handling machines, and formation and testing machines. By application, the market is categorized into automotive, renewable energy, industrial, consumer electronics, and others. The regional analysis includes North America, Europe, Asia Pacific, and the Rest of the World (RoW). This segmentation provides detailed insights into emerging growth opportunities, key trends, and technological advancements that are shaping the global battery manufacturing equipment industry.

Reasons to buy the report
The report will assist leaders/new entrants in this market by providing information on the closest approximations of the revenue numbers for the overall market and its sub-segments. This report will help stakeholders understand the competitive landscape and gain valuable insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the battery manufacturing equipment market and provides information on key market drivers, restraints, challenges, and opportunities.

Key Benefits of Buying the Report

-Analysis of key drivers (rising EV adoption driving demand for next-gen manufacturing technologies, global gigafactory expansion initiatives, advancements in battery technology, policy-driven electrification mandates), restraints (capital-intensive plant setups limiting scalability), opportunities (renewable energy integration fueling demand for advanced equipment, customization in production systems, industrial automation & electrification of material handling equipment, AI-powered smart manufacturing), and challenges (rapid technological shifts, evolving consumer demands & market volatility) influencing the growth of the battery manufacturing equipment market
-Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the battery manufacturing equipment market
-Market Development: Comprehensive information about lucrative markets?the report analyzes the battery manufacturing equipment market across varied regions.
-Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the battery manufacturing equipment market.
-Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Hitachi High-Tech Corporation (Japan), Durr Group (Germany), Lead Intelligent Equipment Co., Ltd. (China), ANDRITZ Schuler GmbH (Germany), Yinghe Technology Co., Ltd. (China), etc.

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