

Global Battery Pack Automated Assembly Line 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 Pack Automated Assembly Line market size was valued at US\$ 4630 million in 2025 and is forecast to a readjusted size of US\$ 9004 million by 2032 with a CAGR of 10.0% during review period.

Battery Pack Automated Assembly Line is a fully integrated production system used for automated manufacturing of lithium-ion battery packs, including cell sorting, module assembly, laser welding, screw fastening, testing, sealing, and final pack integration. The system combines robotics, conveyor systems, machine vision, laser welding, automated testing, and MES software to achieve high-efficiency, high-consistency battery pack production. It is widely used in electric vehicles, energy storage systems, commercial vehicles, and industrial battery applications. Main product types include prismatic cell pack lines, cylindrical cell pack lines, pouch cell pack lines, and flexible automated pack assembly systems. This category excludes cell manufacturing equipment, standalone module assembly machines, and manual assembly lines. The industrial chain of Battery Pack Automated Assembly Line includes upstream suppliers of industrial robots, laser welding systems, servo motors, machine vision systems, automation control software, conveyors, sensors, and precision tooling. Midstream system integrators design and build complete production lines integrating mechanical assembly, electrical control, welding systems, testing systems, and MES software. Downstream applications include electric vehicle OEMs, battery manufacturers, energy storage system providers, commercial vehicle manufacturers, and industrial energy solution companies. Supporting services include line design, process optimization, automation software integration, maintenance services, and commissioning support. In 2025, global Battery Pack Automated Assembly Line production reached approximately

281 lines, with an average global market price of around US\$16,000,000 per line. The gross profit margin of major companies in the industry is between 20%-35%. In 2025, the global production capacity of battery pack automated assembly lines was approximately 401 lines.

The Battery Pack Automated Assembly Line market is driven by the rapid expansion of electric vehicles and energy storage systems, which require highly efficient, consistent, and scalable battery pack manufacturing solutions. As battery energy density increases and pack structures become more complex, manufacturers are adopting fully automated production lines integrating robotics, laser welding, machine vision, and MES software to ensure precision and quality control. The shift toward gigafactory-scale production further accelerates demand for high-throughput and flexible assembly systems capable of handling multiple cell formats such as prismatic, cylindrical, and pouch cells. However, the market faces challenges including high capital expenditure, complex system integration, long commissioning cycles, and rapid technology iteration in battery design. Competition is intensifying among global automation integrators and equipment suppliers as battery manufacturers seek higher yield, lower cost per pack, and improved safety standards. Overall, the market is expected to grow steadily, supported by electrification trends and large-scale energy storage deployment.

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

Global Battery Pack Automated Assembly Line market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Automated Assembly Line market size and forecasts, by Type and

by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Automated Assembly Line market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (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 Pack Automated Assembly Line

- 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 Pack Automated Assembly Line 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 GROB-WERKE GmbH & Co. KG, Comau S.p.A., KUKA AG, thyssenkrupp Automation Engineering GmbH, Schaeffler Special Machinery GmbH, BBS Automation GmbH, PIA Automation Holding GmbH, FFT Produktionssysteme GmbH & Co. KG, VDL Steelweld B.V., Mondragon Assembly S. Coop., etc.

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

Market Segmentation

Battery Pack Automated Assembly Line 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

Module-based Battery Pack Automated Assembly Line

Cell-to-pack Battery Pack Automated Assembly Line

Cell-to-chassis Battery Pack Automated Assembly Line

Blade Battery Pack Automated Assembly Line

Market segment by Automation Level

Fully Automated Battery Pack Assembly Line

Semi Automated Battery Pack Assembly Line

Market segment by Cell Form Compatibility

Prismatic Cell Dedicated Battery Pack Assembly Line

Cylindrical Cell Dedicated Battery Pack Assembly Line

Pouch Cell Dedicated Battery Pack Assembly Line

Multi Cell Format Flexible Battery Pack Assembly Line

Market segment by Production Capacity

Small-capacity Battery Pack Automated Assembly Line: Annual capacity >1 GWh

Medium-capacity Battery Pack Automated Assembly Line: Annual capacity >1 GWh and ≤5 GWh

Large-capacity Battery Pack Automated Assembly Line: Annual capacity >5 GWh and ≤20 GWh

Ultra-large-capacity Battery Pack Automated Assembly Line: Annual capacity >20 GWh

>20 GWh

Market segment by Application

Electric Passenger Vehicles

Electric Commercial Vehicles

Stationary Energy Storage Systems

Electric Two Wheelers And Light Electric Mobility

Others

Major players covered

GROB-WERKE GmbH & Co. KG

Comau S.p.A.

KUKA AG

thyssenkrupp Automation Engineering GmbH

Schaeffler Special Machinery GmbH

BBS Automation GmbH

PIA Automation Holding GmbH

FFT Produktionssysteme GmbH & Co. KG

VDL Steelweld B.V.

Mondragon Assembly S. Coop.

JOT Automation Oy

Bosch Rexroth AG

Aumann AG

ATS Corporation

JR Automation Technologies, LLC

DWFritz Automation, LLC

IPG Photonics Corporation

Photon Automation, Inc.

CONVERGIX Automation Solutions

Re:Build Battery Solutions

Hirata Corporation

Wuxi Lead Intelligent Equipment Co., Ltd.

Guangdong Lyric Robot Automation Co., Ltd.

BOZHON Precision Industry Technology Co., Ltd.

Fujian Nebula Electronics Co., Ltd.

Shanghai SK Automation Technology Co., Ltd.

Shenzhen Han's Lithium Battery Smart Equipment Co., Ltd.

Wuxi Autowell Technology Co., Ltd.

Dalian Haosen Intelligent Manufacturing Co., Ltd.

Wuxi Greenstone Automation Equipment Co., Ltd.

Hymson Laser Technology Group Co., Ltd.

HG Laser Engineering Co., Ltd.

Guangdong Sunka Lead Intelligent Equipment Co., Ltd.

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 Pack Automated Assembly Line product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Pack Automated Assembly Line, with price, sales quantity, revenue, and global market share of Battery Pack Automated Assembly Line from 2021 to 2026.

Chapter 3, the Battery Pack Automated Assembly Line competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Pack Automated Assembly Line 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 Pack Automated Assembly Line 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 Pack Automated Assembly Line.

Chapter 14 and 15, to describe Battery Pack Automated Assembly Line sales channel, distributors, customers, research findings and conclusion.

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