

# Fully automatic energy storage battery cell production equipment



## Overview

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The line integrates cell aging, OCV sorting, automatic stacking, compression, laser cleaning, polarity inspection, laser welding, and comprehensive end-of-line (EOL) testing into a seamless automated workflow. Beyond battery cell characteristics, automation efforts must consider the manufacturing throughput requirements. Factors that influence these requirements include overall ROI, number of process steps, throughput per cell, conveyance, payload characteristics, system footprint, overall yield, yield. The challenge in the production of battery storage systems lies in the growing global demand for e-mobility. The high demand for precision and flexibility as well as future-oriented storage media require automated, scalable, and efficient production solutions. PIA's assembly systems enable. At JR Automation, our capabilities extend far beyond battery module and EV powertrain assembly. But more importantly, we're here to help build a better, more. Bosch Rexroth is ready to meet those challenges, combining deep battery manufacturing expertise with complete factory automation solutions, tailored to meet complex battery production requirements (heavy loads, clean room/dry room conditions, no metal or copper, etc).

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### [Battery Energy Storage Manufacturing Automation , JR Automation](#)

We can help you design and build systems to automate the production of battery energy storage systems (BESS) that will increase production and safety while reducing costs.

### [Battery Production , Lithium-ion & EV Battery Manufacturing Equipment](#)

EV battery manufacturers and other energy storage engineers turn to Nordson to optimize production. Our equipment is found in manufacturing plants, gigafactories, R& D centers, and more, worldwide.



### [Battery machines and equipment for battery production](#)

Automated production of lithium-ion, saltwater and solid-state batteries. Stacking/laser welding of cell modules and end-of-line (EoL) testing technology.

### [Battery Manufacturing , Bosch Manufacturing Solutions ...](#)

Our portfolio includes solutions for all cell types (cylindrical, prismatic, and pouch cells) with customizable automation levels, from semi- to fully automated systems.



### Commercial and Industrial ESS

Air Cooling / Liquid Cooling

- Budget Friendly Solution
- Renewable Energy Integration
- Modular Design for Flexible Expansion

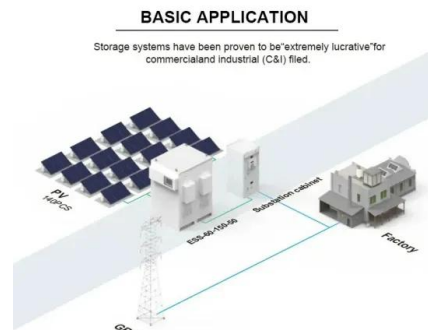


### [Battery Manufacturing Automation From Bosch Rexroth](#)

This study explores how Bosch Rexroth helped ATS Industrial Automation, Inc. with the design and production of grid storage batteries, all while focusing on developing a customized solution to meet ...

### [Automatic Energy Storage Assembly Line](#)

Prismatic Fully Automatic Assembly Line The Prismatic Fully Automatic Assembly Line is designed to deliver maximum throughput, consistency, and production reliability for modern energy storage ...



### [Fully Automated Battery Manufacturing](#)

From prismatic or cylindrical batteries to pouch and button cells, we design production lines to support different form factors of a cell with minimal changeover time.

### [Advanced New Energy Lithium Battery PACK Automated Assembly Production](#)

This state-of-the-art production line achieves seamless automated battery pack production. Spanning an impressive 16 meters, it integrates cutting-edge technology through the following equipment.



### [Assembly line for battery modules and battery packs](#)

For cell/module pack assembly, PIA Automation offers flexible and highly automated systems for the efficient production of battery cells, modules, and battery packs. These systems are scalable, ...

### [LEAD Energy Storage Battery Manufacturing Solutions](#)

The fully automated lithium-ion battery assembly line integrates smart MES and logistics, delivering higher capacity, lower energy consumption, and superior OEE.



### **FLEXIBLE SETTING OF MULTIPLE WORKING MODES**



### [Advanced New Energy Lithium Battery PACK...](#)

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