

# Fully automatic production of new energy batteries

Why do we need automation in battery production?

Demand for lithium-ion batteries is booming. From smartphones and tablets to e-cars: nothing runs without batteries. Accordingly, the required quantities in battery production are increasing rapidly. The solution lies in automation. This is because the manufacture of batteries is technically demanding and requires high safety standards.

What is a modular battery module production line?

Wir erarbeiten holistische Lösungen und reagieren flexibel auf den dynamischen Markt: The modular battery module production line extends from the inspection and assembly of the battery cells to the electrical linking and measurement of the battery modules and even to the automated electrical and mechanical final testing of the battery modules.

What makes Kuka a great battery manufacturer?

KUKA ensured the implementation and networking of the individual production steps with a highly flexible multi-product line. With KUKA cell4\_FSW and KR FORTEC, the production of battery housings for fully electric vehicles can be raised to a new level. FAW-Volkswagen in Foshan produces up to 300,000 battery packs per year.

How a battery carrier production line works?

Integrated cameras ensure utmost precision. The automated battery carrier production line includes friction stir welding, component handling, deburring and integration into upstream and downstream processes. Finally, the robot-based FSW application module is used. There are high requirements for battery housings for plug-in hybrid cars.

What is fully automated high-speed production?

It combines high speed with precision by using proven automation technology. This technology allows you to produce battery cells of the highest quality reliably and at minimal cost. Fully automated high-speed production exceeds all current industry standards in battery cell production.

What are the challenges faced by manufacturing battery cells?

Manufacturing battery cells poses significant challenges for companies: stringent quality standards, intricate and interconnected processes, and rejection rates as high as 30%. These challenges drive up production costs and resource usage and entail potential safety hazards. How can AI help to increase manufacturing productivity?

The company provides full-process equipment solutions and services for the power battery, energy storage battery, and consumer battery industries, and provides global battery ...

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KUKA offers automation solutions for the entire value chain of battery production. Sustainable process technologies play an important role ...

Discover the state-of-the-art automated assembly production line system for lithium battery packs, designed for new energy applications. This 16-meter-long production line integrates cutting-edge technology, including precision battery feeding, AI-driven

Headed by Jonas & Redmann Group GmbH and the Fraunhofer Institute for Silicon Technology (ISIT), the ProTrak and S-Protrak consortia develop technologies for ...

Focused on the new energy production line, LEAD provides full scenario and full process digital intelligent logistics solutions for intelligent manufacturing. It has over 120 cell production lines and has gained orders worth 100Gwh.

The K&#246;rber Cell Maker raises the production of battery cells to a whole new level. It combines high speed with precision by using proven automation technology.

In May 2023, Star New Energy's first vanadium flow battery gigawatt factory was officially completed in Wujin National High-tech Zone, Changzhou. In just over three months, ...

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