

New Energy Battery Assembly Fixture Equipment

What happens after a battery module is assembled?

After the battery module is assembled, it needs to be placed into the battery tray. As this tray is a key structural component of the vehicle as well as integral in protecting the battery cells, it needs to be of the highest strength and stability.

How does a battery tray assembly work?

The battery tray assembly consists of several production steps. Depending on the battery design and manufacturing processes, manual tightening with bolt positioning and process control, or flow drill fastening with K-Flow technology can bring the needed process quality, productivity and flexibility.

What are the different types of EV batteries?

EV batteries have become an integral part of the vehicle structure, making lithium-ion cell assembly and their integrity a safety-critical issue. One major differentiating feature of battery concepts and designs is the cell type. The typical cell types on the market are currently cylindrical cells, prismatic cells, and pouch cells.

How can Altura's help EV battery manufacturers with data-driven service solutions?

To further support EV battery manufacturers with data analysis and reduce unnecessary costs, we offer ALTURA's Data-Driven Service Solutions. This easy-to-use app proactively analyzes production data and identifies issues and quality concerns in real-time.

What is a high-end battery inspection system?

This high-end inspection is made possible with high-resolution 8 and 16k cameras and multi-scan technology with up to three simultaneous scans. When it comes to high-performance battery cells, the ISRA VISION PouchSTAR cell inspection system offers a complete 360° optical view of cells to ensure a 100 % comprehensive inspection.

Why do EV batteries need a scalable dispensing solution?

Thousands of cylindrical cells are installed in a modern EV battery. Dispensing solutions need to be scalable to meet short cycle times. At the same time, complex structures and small-scale dispensing tasks require highly precise applications.

We have outlined a complete battery assembly process for prismatic cells - from the single cell to the finished battery pack. We help our customers develop unique joining processes and select the technologies that best fit the individual requirements and challenges of ...

We integrate battery testing systems, formation and grading systems, new energy digital batteries, power batteries, and automated production lines for battery assembly. We also provide comprehensive solutions for

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photovoltaic energy ...

Our automated battery pack assembly line is highly standardized and suitable for over 90% of cylindrical battery products on the market. It features unique double-sided cross spot welding ...

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 ...

* Tooling fixtures are reasonably designed to keep battery cells stable and safe during assembly. * Advanced laser welding machine can ensure welding quality between battery modules, protect them well and minimize welding defaults.

Can meet the many types of PACK flexible assembly of mixed production needs, with small batch, high flexibility characteristics; Configuration of high-precision, flexible with the tray, to meet the different needs of the module assembly attitude;

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Workstations are flexibly expanded and customized, the replacement tooling can be insulated, anti fooling, and anti falling, with high compatibility and short replacement time. The assembly line is efficient and reliable bus controlled, and can display real-time information such as process parameters, production orders, and equipment status.

Equipment production process is fully automated. The workpiece in contact with the cell adopts non-metal to prevent metal dust from affecting cell performance. Equipment operates stably, and the key components are imported or international first-line brands. Non-standard customization according to customer needs. (12PPM 16PPM 24PPM)

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Designing more than 110 EV battery module and pack assembly and test lines, we are at the forefront of pouch, prismatic, and cylindrical battery assembly. Our proven processes, project management skills, and global reach enable ...

Lithium battery module fully automatic assembly line is mainly used in the production of new energy lithium battery modules, square battery modules, energy storage battery modules, power battery modules and pack welding assembly, etc. Streamline your battery production process with our cutting-edge Battery Pack Assembly Line.

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