



Lithium EV Battery Pack Assembly Line With PLC MES System

Our Product Introduction

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Basic Information

- Place of Origin: Shanghai
- Brand Name: Quanstar
- Certification: ISO
- Packaging Details: wooden box
- Payment Terms: L/C,T/T



Product Specification

- Name: EV Battery Pack Assembly And Test Line
- Application: Electric Vehicle Manufacturing Automation
- Assembled Products: Electric Vehicle Battery Pack
- Type: Fully Automatic
- Control System: PLC
- Place Of Origin: Shanghai
- Highlight: Lithium EV Battery Pack Assembly Line,
MES System EV Battery Assembly Line,
PLC EV Lithium Battery Assembly Line

Product Description

EV Lithium battery pack assembly line

Features:

Highly automated: From the feeding of battery cells to the offline of packs, automated production is adopted to the maximum extent, reducing manual operations and improving production efficiency and the stability of product quality.

Information management: Through the data transfer interface, it is imported into the MES system (Manufacturing Execution System) for management, which can store material parameters and manufacturing data in a timely manner and realize the traceability of quality information at any time.

Flexible connection: The flexible connection method is adopted, which is convenient for adjustment and expansion according to actual needs.

Multi-device integration: It consists of a complete set of assembly lines including non-standard assembly equipment, non-standard conveyor lines, automatic transfer and lifting machinery, loading and unloading manipulators, testing equipment, and an automated man-machine control system.

High-precision operation: For example, in the square pack battery pack solution, operations such as automatic feeding, battery cell processing, module assembly, module stacking, busbar and shell welding, and key data detection can be achieved with high precision.

Strong compatibility: Equipped with servo fixtures and quick-change designs for pallets, it can be compatible with the model changes of different battery cells and modules.

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Advantages:

Improve production efficiency: Automated production reduces the production cycle and can significantly increase output compared to traditional manual assembly methods.

Ensure product quality: Reduces the influence of human factors on product quality, making the product quality more stable and reliable.

Enhance production rationality: The design fully considers ergonomics, can reduce the labor intensity of workers, and can freely arrange the bus and logistics according to the site.

Intelligent control: It can be set by the main control unit that manages the entire production line, centrally display production data, and can also be operated independently in unit equipment to achieve intelligent monitoring and management.

User-friendly operation: The interface is simple and easy to operate and control.

Strong data traceability: It can completely trace the production data of products, facilitating quality control and problem troubleshooting.

Reserve upgrade space: Fully consider and reserve the space and interface for automatic upgrades to facilitate subsequent technical updates and improvements.

Equipment size and layout	according to the size and space limitations of the production site
Precision control	internal resistance testing, welding, and tightening to ensure the quality and performance of the battery pack
semi-automatic/fully automatic	according to customer requirement
Assembly process	from material distribution, battery module preparation and measurement, thermal paste coating, connection of module and shell, assembly of battery management system, screw tightening to terminal testing of the production line
Compatibility	compatible with different types and specifications of battery packs
Precision control	yes
Data collection and track	yes
Cycle time	according to customer requirement, e.g 15s
Capacity	according to customer requirement, e.g 300 pcs/h

QuanStar Quanstar Intelligent Controls (Shanghai) Co.,Ltd

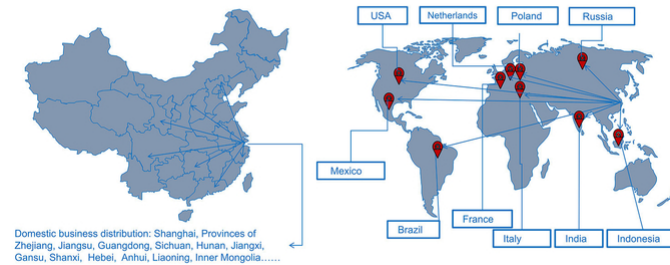
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Business Global Service



We are committed to providing customers with high-quality, competitive products and services. A project cooperation process usually includes the following key steps.



FAQ

1.Q: Are you trading company or manufacturer?

A: We are a manufacturer with over 10 years of production and development experience.

2.Q: What are your major products?

A: We are an assembly automation solution provider specialized in customized automatic machinery for production. For example, we provide customized assembly line, testing and packaging solutions to several electric vehicle (EV) manufacturers, such as component-level lines for battery packs, thermal management systems, steerings and so on.

3. Q: How long is your delivery time?

A: Usually 3 months is a production cycle, the specific delivery date should be arranged according to the product's complexity and real-time production schedule. Please contact us for the latest delivery date.

4.Q: How about your price?

A: Show us your parts and we will be glad to find solutions and provide a suitable scheme, and offer the most competitive price to you.

5.Q: What is your terms of payment ?

A: 40% deposit and 60% balance payment before delivery.

6.Q: What is the package for you machine?

A: We have standard wooden case package.

7.Q: How long is the warranty?

A: Our aftersale service is one year free warranty, and life-time maintenance guaranteed.

8.Q:What partners do you work with?

A: We can both work with customer's designated partners and propose other components partners at customer's request. Some of our technical partners as below:

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