



PLC Automotive Industry Assembly Line For EV Thermal Management Solenoid Valve

Our Product Introduction

for more products please visit us on automation-assembly.com

Basic Information

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



Product Specification

- Name: Assembly Line For SOV
- Application: Heat Pump Manufacturing
- Condition: New
- Type: Fully Automated
- Control System: PLC
- Power Supply: 380V/220V
- Highlight: **Solenoid Valve Automotive Industry Assembly Line**
, **Thermal Management Solenoid Valve Assembly Line**
, **EV Solenoid Valve PLC Assembly Line**

Product Description

Solenoid valve (SOV) for thermal management of the electric vehicle automation solution

The design of the assembly line for SOV focuses on flexibility and high efficiency.

Automatic feeding: Adopt an intelligent warehousing and automatic conveying system.

Assembly system: Multiple high-precision manipulators work together. The manipulator is equipped with special fixtures and can accurately grab and install components such as the valve body, valve core, and spring of the solenoid valve. Force sensors and displacement sensors are set up at key assembly stations to monitor the assembly process in real time to ensure assembly accuracy. For example, during the process of installing the valve core into the valve body, the insertion depth and force are strictly controlled to ensure sealing.

Detection system: Equipped with a variety of detection equipment to conduct comprehensive detection of solenoid valves. Including airtight detection equipment to detect the sealing performance of solenoid valves; electrical performance detection equipment to detect parameters such as the coil resistance and inductance of solenoid valves; flow detection equipment to detect the flow control accuracy of solenoid valves. Detection data is automatically uploaded to the production management system for quality tracing and analysis.

Control system: Adopt an advanced PLC control system and combine industrial Ethernet technology to realize the automatic control and data communication of the production line. Operators can monitor the running status of the production line, adjust parameters and handle alarm information in real time through the touch screen human-machine interface. The control system also has an intelligent fault diagnosis function that can quickly locate and eliminate faults.

Automotive (electric vehicle) automation solution

- Power system assembly automation solution
- Chassis system assembly automation solution
- Automotive electronics assembly automation solution
- Body and interior assembly solution

Function	automatic feeding, assembly & testing line
Production	SOV
Cycle time	15 s/pc
Defective rate	below 0.5%
Processes	O-ring automatic assembly
	laser marking
	visual detection
	automatic tightening
	automatic press-fit
	EOL test
	automatic feeding
Features	visual inspection
	top level traceability throughout whole line

新能源汽车子零部件生产设备

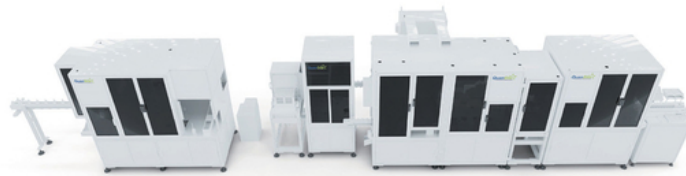
New Energy Vehicle Sub-parts Production Equipment

新能源汽车电磁阀自动化装配、检测生产线

New Energy Vehicle Solenoid Valve Automatic Assembly, Test-
ing Production Line

EQUIPMENT DISPLAY

设备展示



PROCESSES

主要工艺

- O型圈装配
- 激光打标
- 视觉检测
- 自动拧紧
- 自动压装
- EOL测试
- 自动上料
- O-Ring auto assembly
- Laser marking
- Visual detection
- Auto tightening
- Auto press-fit
- EOL test
- Automatic feeding

PARAMETER

性能参数

- 生产节拍: 15秒/件
- 不良率: $\leq 0.5\%$
- Production cycle: 15 s/pes
- Defective rate: $\leq 0.5\%$

FEATURES

核心优势

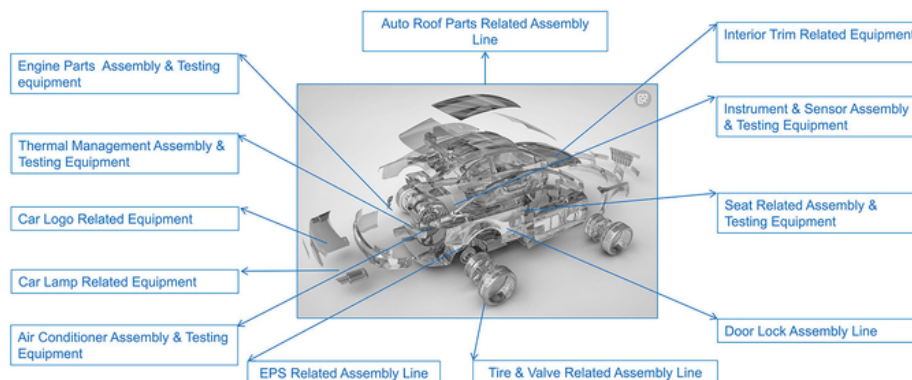
- 通过视觉检测大幅提升质量
- 整线A级追溯
- Highly improve quality with visual inspection
- A level traceability throughout whole line

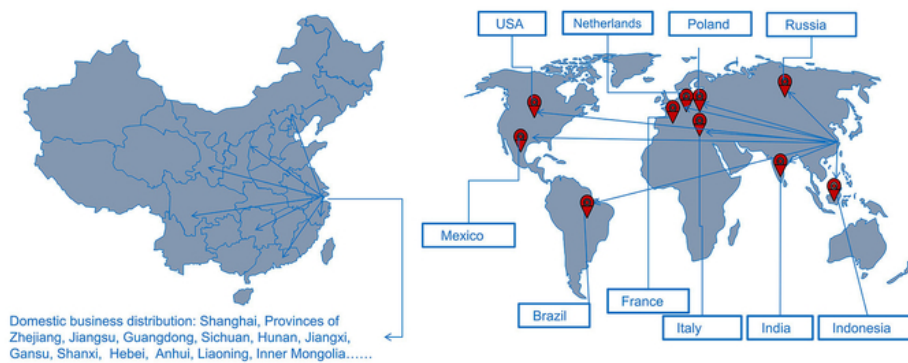
PRODUCT

主要产品



Automotive Industry & Related Auto Parts





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:

□

