



Automation Automotive Assembly Line for Electronic Expansion Valve EXV

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: Expansion Valve Assembly Machine
- Application: Heat Pump Manufacturing
- Condition: New
- Category: Automation
- Control System: PLC
- Power Supply: 380V/220V
- Highlight: EXV Automation Automotive Assembly Line,
EXV Automotive Assembly Line,
Electronic Expansion Valve PLC Assembly Line



Product Description

Electronic expansion valve (EXV) assembly line equipment automotive automation solution

The design of the EV EXV (Electric Vehicle Electronic Expansion Valves) focuses on flexibility and high efficiency.

Feeding and transportation: Use an intelligent warehousing system to automatically retrieve the required parts according to production needs and transport them to the assembly line through AGVs (automated guided vehicles). AGVs can flexibly shuttle between different workstations according to preset paths, improving the efficiency of material distribution.

Assembly workstation: A modular assembly workstation is designed, which can be quickly adjusted and replaced according to the requirements of different products. For example, for valve bodies and valve cores of different specifications, rapid production switching can be achieved only by replacing the corresponding fixtures and tools. At the same time, laser positioning and visual guidance technologies are adopted in the assembly process to ensure assembly accuracy.

Inspection link: In addition to conventional pressure and flow detection, temperature simulation detection is also added. By simulating the performance of expansion valves at different working temperatures, it is ensured that the product can work normally under various environmental conditions. Inspection data is uploaded to the cloud database in real time for quality tracing and analysis.

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	EV EXV (Electric Vehicle Electronic Expansion Valves)
Cycle time	8 s/pc
Defective rate	below 0.5%
Processes	zero degree test
	MOP test
	automatic feeding
	visual detection
	automatic tightening
	automatic press-fit
Features	compatible with 8 types
	A level traceability throughout whole line

新能源汽车热管理相关生产设备

New Energy Vehicle Thermal Management Related Production Equipment

新能源汽车空调膨胀阀自动化装配、检测类生产线

New Energy Vehicle Air Conditioning Expansion Valve Automatic Assembly, Testing Production Line

EQUIPMENT DISPLAY

设备展示



PROCESSES

主要工艺

- 零度测试
- MOP测试
- 自动上料
- 视觉检测
- 自动拧紧
- 自动压装
- Zero degree test
- MOP test
- Auto feeding
- Visual detection
- Auto tightening
- Auto press-fit

FEATURES

核心优势

- 兼容8种产品, 支持便捷换型
- 整线A级追溯
- Compatible with 8 kinds of products, support for easy type change
- Whole line A level traceability

PARAMETER

性能参数

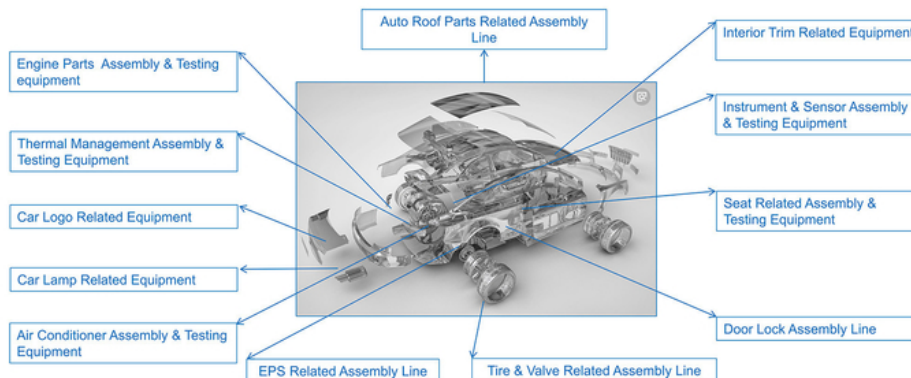
- 生产节拍: 8秒/件
- 不良率: $\leq 0.5\%$
- Production cycle: 8 s/pes
- Defective rate: $\leq 0.5\%$

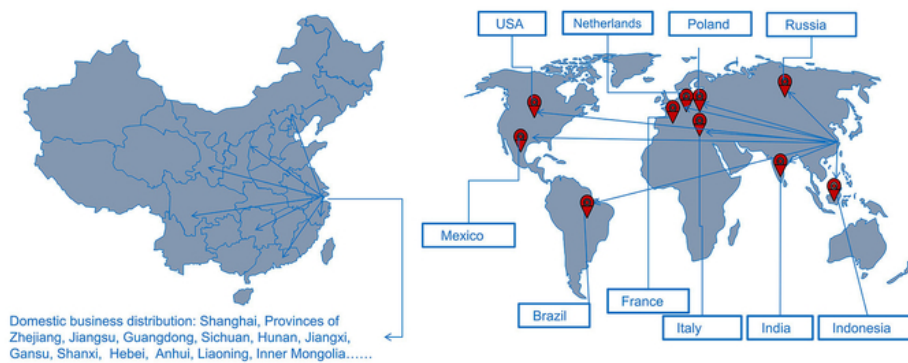
PRODUCT

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:

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