Automotive Assembly Line Of Lamp Assembly And Testing Equipment

Our Product Introduction

Basic Information

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

Product Specification

- Name: Car Lights Assembly And Testing Machine
- Application: Automotive Manufacturing Automation
- Condition: New
- Operation Mode: Fully Automated
- Control System: PLC
- Place Of Origin: Shanghai
- Highlight: **Lamp Automotive Assembly Line**, **Automotive Lamp Assembly Equipment**, **Automotive Lamp Assembly Line**

Product Description

Assembly line of lamp assembly and testing equipment for automotive

Automatic feeding system

Automated equipment such as robots or conveyor belts are used to transport various parts of the vehicle lamp, such as lamp shades, lamp housings, bulbs, reflectors, etc., from the warehouse or the previous process to the assembly station.

Equipped with a visual recognition system to detect and classify parts to ensure the accuracy and consistency of feeding.

Assembly station

Multi-axis robots are responsible for grabbing and assembling parts. The robot is equipped with a high-precision fixture and can accurately install the bulb at a specific position on the lamp housing and ensure firm installation.

Automated screw tightening equipment tightens the screws on the lamp housing to ensure the stability of the lamp structure.

Automated equipment is used for reflector installation to ensure that the angle and position of the reflector are accurate to improve the lighting effect of the vehicle lamp.

Inspection station

Optical performance detection: Professional optical detection equipment is used to detect optical performance indicators such as light intensity, light angle, and color temperature of vehicle lamps. The detection equipment can simulate different lighting conditions, such as driving at night and driving in rainy days, to ensure that the vehicle lamp can provide good lighting effects in various situations.

Sealing detection: Put the assembled vehicle lamp into the sealing detection equipment and detect the sealing performance of the vehicle lamp by filling it with gas at a certain pressure. The detection equipment can detect tiny leaks to ensure that the vehicle lamp can work normally in various harsh environments and prevent water vapor, dust, etc. from entering the interior of the vehicle lamp and affecting the performance and lifespan of the vehicle lamp.

Electrical performance detection: Conduct comprehensive detection of the electrical performance of vehicle lamps, including the measurement of parameters such as voltage, current, and resistance. The detection equipment can detect electrical faults such as short circuits and open circuits to ensure that the circuit connection of the vehicle lamp is normal and there are no safety hazards.

Appearance detection: High-definition cameras and image recognition technology are used to detect the appearance of vehicle lamps. The detection equipment can detect appearance defects such as scratches, deformations, and stains to ensure that the appearance quality of the product meets customer requirements.

Control system

An advanced PLC control system is adopted to automatically control the entire assembly and detection process. The control system can achieve precise control of each equipment to ensure stable and reliable operation of the equipment.

Equipped with a human-machine interface to facilitate operators to operate and monitor the equipment. The human-machine interface can display information such as equipment operation status and detection results. Operators can perform operations such as parameter setting and fault diagnosis through the human-machine interface.

III. Equipment advantages

Improve production efficiency

The automated assembly and detection process greatly shortens the production cycle and improves production efficiency. Compared with traditional manual assembly and detection methods, automated equipment can achieve continuous production, reducing the time and error of manual operations and improving production efficiency.

Improve product quality

High-precision assembly and detection equipment ensure the quality stability and reliability of products. Automated equipment can achieve precise assembly of parts and comprehensive detection of product performance, reducing the impact of human factors on product quality and improving the product qualification rate.

Reduce production costs

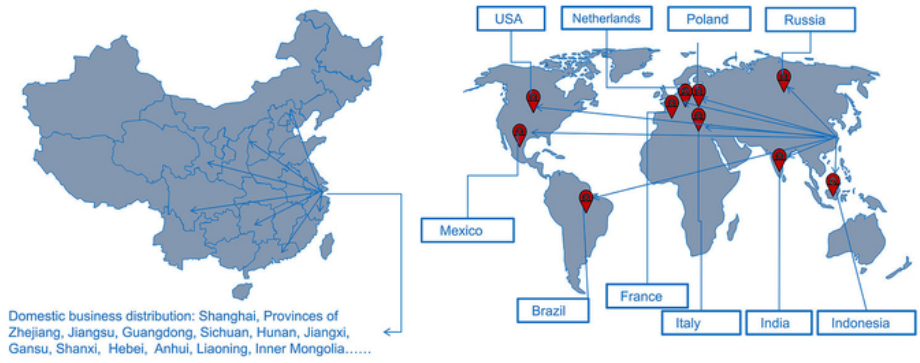
The introduction of automated equipment reduces the demand for manual labor and reduces the labor cost of enterprises. At the same time, automated equipment can achieve efficient production, reducing waste in the production process and reducing production costs.

Enhance enterprise competitiveness

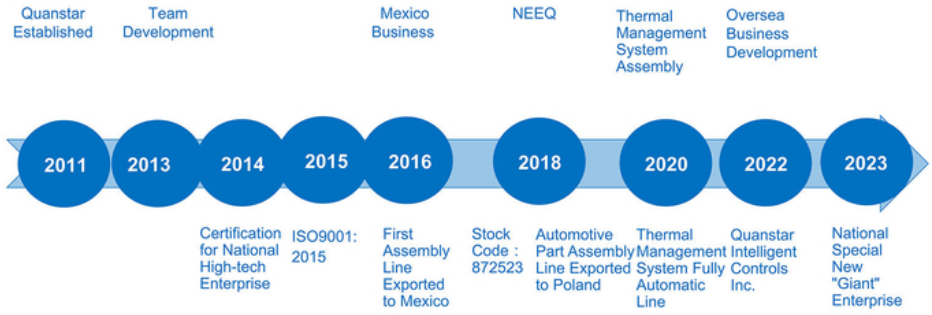
Advanced automated detection equipment can improve the production efficiency and product quality of enterprises and enhance the competitiveness of enterprises in the market. Enterprises can win more customers and market share by providing high-quality products.

Function	automatic assembly and testing line
Compatibility	compatible with different specifications of pipes

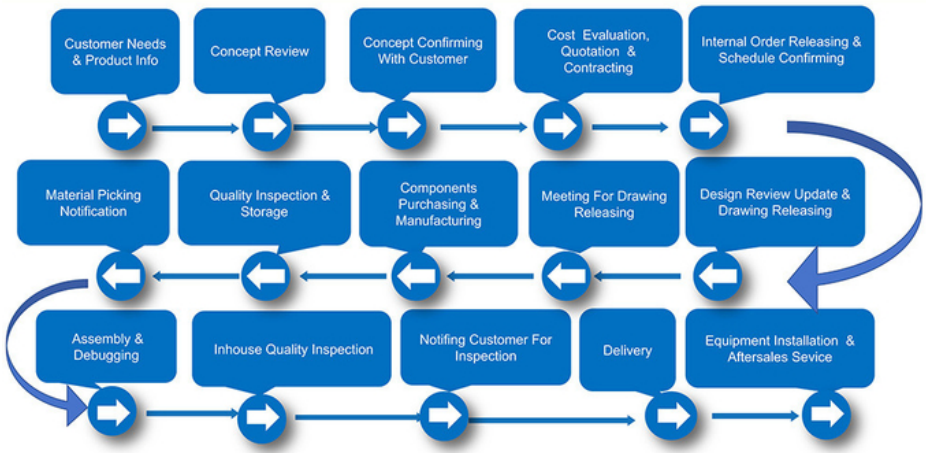
Business Global Service



Development History



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



Quanstar Intelligent Controls (Shanghai) Co.,Ltd

+86 15002179039 sales@automation-assembly.com automation-assembly.com

No.368 Xiaonan Road, Fengxian District, Shanghai 201401, China