



## Automobile Assembly Line for Cam Bearing Cover Inspection Sorting Deburring

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

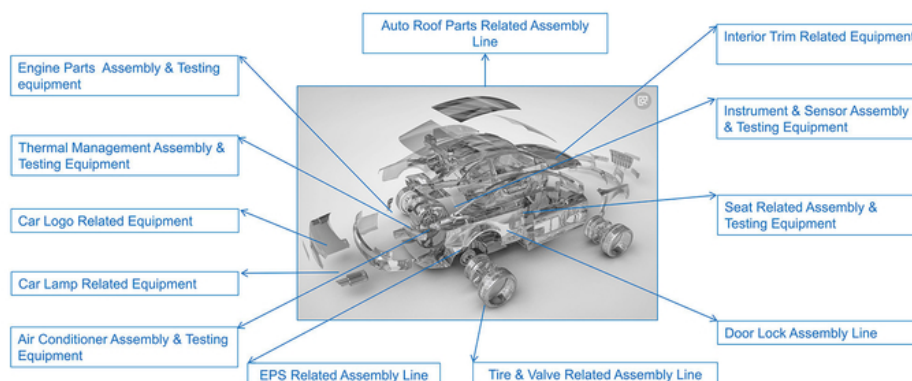
- Name: Cam Bearing Cover Automation Line
- Application: Manufacturing Automation
- Industry: Automotive
- Operation Mode: Semi Automated
- Control System: PLC
- Place Of Origin: Shanghai
- Highlight: Cam Bearing Cover Automobile Assembly Line,  
Automobile Cam Bearing Cover Assembly Line,  
Cam Bearing Cover Deburring Automation Line

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## Product Description

### Automobile cam bearing cover inspection, sorting, deburring and cleaning production line

Automotive Industry & Related Auto Parts



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### 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.



### 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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Advantages of camshaft bearing cap inspection robot deburring, sorting and cleaning assembly line:

Efficient deburring:

Compared with traditional manual deburring, robot deburring is fast and can work continuously, greatly shortening the production cycle. For example, manual deburring may take several minutes or even longer to process a camshaft bearing cap, while the robot can complete it in a short time and ensure quality stability without being affected by factors such as worker fatigue and skill differences.

It can handle camshaft bearing caps with complex shapes and structures. For some parts that are difficult for humans to reach or inconvenient to operate, such as corners and holes, the robot can accurately perform deburring operations to ensure the overall quality of the product.

Precise detection:

Equipped with high-precision detection equipment and sensors, it can accurately detect problems such as the size, shape, and surface defects of camshaft bearing caps. Compared with manual detection, the results are more objective and accurate, and the misjudgment rate is low. For example, in terms of size detection, the robot can be accurate to the micron level to ensure that the product meets strict quality standards.

It can realize real-time detection and data feedback, discover problems in the production process in time, and facilitate rapid adjustment of production processes and parameters to improve product qualification rate.

Intelligent sorting:

According to the detection results, the robot can quickly and accurately sort camshaft bearing caps and place qualified and unqualified products separately. This intelligent sorting function improves production efficiency and reduces errors and labor intensity of manual sorting.

It can be sorted according to different quality grades or customer needs, providing convenience for subsequent processing, packaging or sales, and realizing differentiated management of products.

Thorough cleaning:

The cleaning process adopts automatic operation to ensure that all parts of the camshaft bearing cap can be fully cleaned, removing burr residues, oil stains, dust and other impurities, and improving the cleanliness and appearance quality of the product.

Compared with manual cleaning, the cleaning effect is more stable and consistent, and it can avoid problems such as incomplete cleaning or damage to the product caused by human factors.

Improve quality stability:

The automatic operation of the entire assembly line reduces human intervention, reduces the impact of human operation errors on product quality, makes the product quality more stable and reliable, and reduces the scrap rate.

Operating strictly in accordance with preset procedures and standards ensures that each camshaft bearing cap undergoes the same processing flow, thereby improving the consistency of product quality.

Optimize production process:

Integrating multiple processes such as deburring, detection, sorting, and cleaning into one assembly line realizes the integration and automation of the production process, reduces material handling and waiting time in the middle links, and improves overall production efficiency.

It helps enterprises optimize production layout, reduce equipment floor space, improve plant space utilization, and also facilitate production management and quality control.

Reduce labor costs:

Robots can replace a large amount of manual labor, reducing the demand for manpower and thereby reducing the labor cost of enterprises. Although the initial investment in robot equipment is large, in the long run, as the production scale expands, its cost advantage will gradually appear.

It reduces the labor intensity of workers, frees workers from heavy and repetitive labor, and allows them to devote their energy

to more valuable work such as equipment maintenance and technology research and development.

#### Cost advantages:

**Reduced labor costs:** Domestic labor costs may be relatively lower than those in some developed countries, reducing the overall operating costs of the assembly line. For example, in some Southeast Asian countries, labor costs are relatively high. Importing automotive air conditioning expansion valve assembly lines from China can reduce labor cost inputs during their production processes.

**Cost reduction brought by economies of scale:** China's assembly line industry usually has a large production scale and can reduce the cost per unit product through large-scale production. For some foreign enterprises with relatively small demand scales, direct imports are cheaper.

#### Advantages in technology and quality:

**Advanced technological level:** After years of development in the field of assembling automotive parts, China has accumulated rich technical experience. The assembly line may adopt advanced automation technology, precise detection equipment and a strict quality control system, which can ensure high precision and high quality in the assembly of expansion valves. The product performance and quality are more reliable and can meet the strict requirements of the international market.

**Continuous technological innovation:** Chinese enterprises pay attention to technological research and development and innovation, and continuously improve the process and technology of the assembly line to adapt to market changes and customer needs. For example, adopting a more intelligent control system and optimizing the assembly process to improve production efficiency and product quality.

#### Advantages in production efficiency:

**Efficient automated production:** Assembly lines usually achieve a high degree of automation and can quickly and accurately complete the assembly work of expansion valves, greatly improving production efficiency and shortening the production cycle. Compared with manual assembly, automated assembly lines can operate continuously 24 hours a day, have higher output per unit time, and can meet the large-volume order needs of foreign customers in a timely manner.

**Mature technological process:** After long-term practice and optimization, China's automotive air conditioning expansion valve assembly lines have a mature technological process. The connections between various links are smooth, reducing production pauses and waiting times, and further improving overall production efficiency.

#### Advantages in product diversity:

**Meeting different specification requirements:** It can produce automotive air conditioning expansion valve assembly lines of various specifications and models to meet the needs of different countries and regions and different vehicle models. Customized production can be carried out according to specific customer requirements to provide diversified solutions.

**Compatible with multiple refrigerants:** With the improvement of environmental protection requirements, different countries have different regulations on the use of automotive air conditioning refrigerants. China's assembly lines can be compatible with multiple common refrigerants such as R134a and R1234yf, providing more flexible choices for foreign customers.

#### Advantages in supply chain and service:

**Perfect supply chain system:** China has a huge and complete manufacturing supply chain and has advantages in aspects such as raw material procurement and parts matching. Various parts and raw materials required for the assembly line can be obtained in a timely and convenient manner, ensuring the continuity and stability of production and also helping to reduce procurement costs.

**High-quality after-sales service:** Chinese assembly line export enterprises usually pay attention to after-sales service and can provide foreign customers with timely technical support, equipment maintenance and repair services. Respond quickly to customer needs, solve problems encountered in the use process, reduce customer worries, and enhance customer trust and satisfaction in products.

Function	automatic inspection and cleaning machine
Compatibility	compatible with different specifications of products

 **Quanstar Intelligent Controls (Shanghai) Co.,Ltd**

 +86 15002179039    [sales@automation-assembly.com](mailto:sales@automation-assembly.com)    [automation-assembly.com](http://automation-assembly.com)

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