



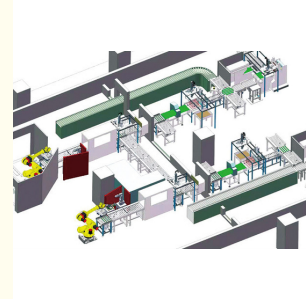
Industrial Automation Machinery Products Of Assembly Test And Packing

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
- Delivery Time: 90 days
- Payment Terms: L/C,T/T



Product Specification

- Name: Industrial Automation Machinery Products Of Assembly, Test And Packing
- Application: Industrial Automation
- Products: Custom Automation Machinery
- Operation: Fully Automatic
- Control System: PLC, HMI
- Software: SCADA, MES
- Highlight: Industrial automation machinery, Industrial automation machinery products assembly, Industrial automation machinery

Our Product Introduction

Product Description

Industrial automation machinery products of assembly, test and packing

Automation technology:

automation transformation technology of punch presses and bending machines (replacing human workers with robots).

Technologies such as automatic material storage, automatic bending, automatic plate shearing, automatic dimensional inspection, automatic gluing, automatic riveting, automatic welding (resistance welding), automatic packaging, and automatic handling.

A mixed-line production system has been developed for the elevator industry, which can achieve automatic production according to the contract number and operate fully parameterized and automatically, solving the pain points of the industry such as a large variety of products and significant changes in product dimensions.

The automatic material storage can realize the separation of multiple materials and the detection of single and double sheets.

The automatic dimensional inspection can be used for the inspection of the length, width, height dimensions of sheet metal parts and the angle dimensions after bending.

The automatic bending can be carried out automatically according to the contract number.

The automatic blanking realizes the automatic transfer of finished products through AGV.

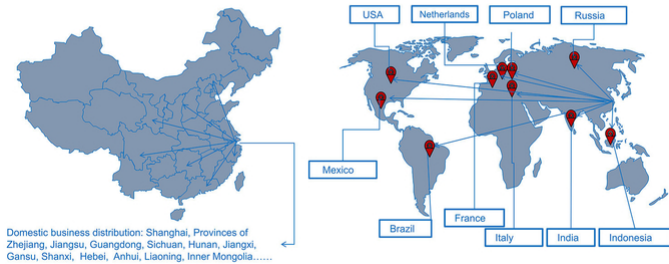
Key Parameters:

Category	Parameter	Description/Value
General Specifications	Line Length	10-50 meters (adjustable based on layout)
	Production Cycle Time	3-15 seconds/part (depends on complexity)
	Workstation Number	5-20 modular stations
	Power Supply	380-480V AC, 50/60Hz, 3-phase
	Compressed Air Requirement	0.5-0.7 MPa, ~100 L/min
Assembly Module	Assembly Accuracy	±0.05 mm
	Gripper Type	Pneumatic/Servo-electric (customizable)
	Torque Control Range	0.1-20 Nm (for screwdriving units)
	Part Size Range	5-500 mm (L/W/H)
	Max. Part Weight	10 kg/station
Inspection Module	Vision System Resolution	5-12 MP (with 10-50 µm/pixel)
	Defect Detection Sensitivity	≥0.02 mm (for dimensional defects)
	Camera Type	CCD/CMOS (2D/3D options)
	Lighting System	LED ring/backlight (adjustable intensity)
	OCR Verification	Font size ≥1.5 mm
Motion System	Conveyor Type	Belt/Chain/Pallet (motorized)
	Positioning Accuracy	±0.1 mm (with servo positioning)
	Linear Speed	0.1-2 m/s (variable)
Control System	PLC	Siemens/Brand (e.g., S7-1500, Allen-Bradley)
	HMI	10"-15" touchscreen (multi-language)
	Communication Protocol	PROFINET/EtherCAT/Modbus TCP
	Data Logging	SQL database (local/cloud)
Quality Metrics	False Rejection Rate	≤0.5%
	First-Pass Yield	≥99.2%
	MTBF (Mean Time Between Failures)	>2,000 hours
Environmental	Operating Temperature	5-40°C
	Humidity Range	20-80% RH (non-condensing)
	Noise Level	≤75 dB
Safety	Safety Standards	ISO 13849-1 (PLd), CE/UL certified
	Protective Measures	Light curtains, E-stop, safety interlocks

Notes:

- Customization:** Parameters can be adjusted based on part materials (metal/plastic) and complexity.
- Optional Add-ons:** AI-based defect classification, RFID tracking, robotic welding/gluing stations.

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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