



Custom Automation Assembly Line Visual Inspection

Our Product Introduction

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

Basic Information

- Place of Origin: Shanghai
- Brand Name: Quanstar
- Certification: ISO 9001
- Minimum Order Quantity: 1
- Delivery Time: 90 days
- Payment Terms: T/T



Product Specification

- Name: Custom Automation Of Assembly
- Controller: PLC, HMI
- Management: MES, SCADA
- Automation: Fully Automatic
- Inspection: Visual
- Solution: Customised
- Highlight: **Custom Automation Assembly, Automation Assembly Line**

Product Description

Custom automation of assembly

QIC has supplied assembly automation solutions, automatic assembly line and assembly machine technology across a range of industries sectors for over 20 years. QIC are specialists in the design and manufacture of bespoke production line equipment, assembly stations and semi- or fully-automated production lines.

An automatic assembly machine can incorporate automatic testing, robotic automation and mechanical handling. QIC have supplied elements of these into solutions within many industries.

Quanstar Intelligent Controls (Shanghai) Co.,Ltd. developed fully automated assembly and test lines for automotive parts including electric vehicle parts. We have a high reputation for providing custom automated manufacturing, processing, assembling and packing solutions for all industries including:

- Automotive
- Medical
- Healthcare
- Industrial
- Cosmetics
- Commodities

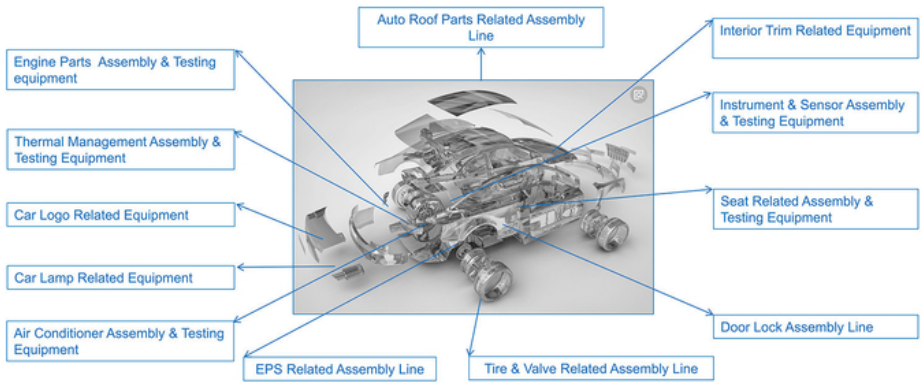
Core competencies of our manufacturing automation solutions:

- Resistance and laser welding
- Ultrasonic and RF Welding
- Industrial robot integration for flexible, multi-axis problems
- Material handling
- Power & free linear transfer systems
- Servo press
- Vision inspection
- Build to print
- Precision machining
- Lean cells
- Leak testing
- Traceability

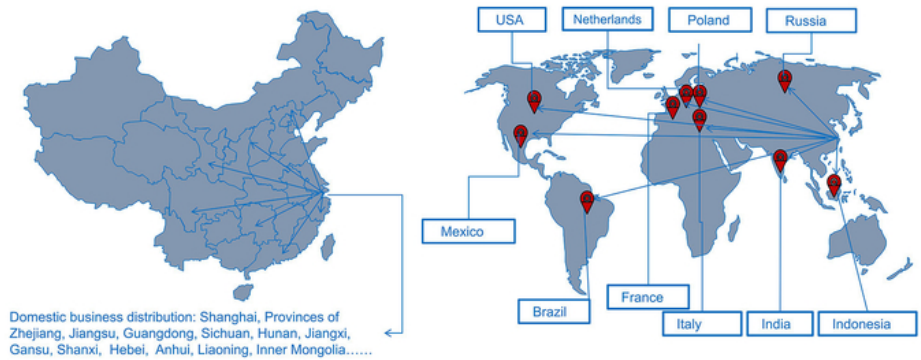
Category	Parameter	Description/Value
General Specifications	Line Length	5-100 meters (modular design)
	Cycle Time	1-60 seconds/unit (industry dependent)
	Workstations	4-50 stations (expandable)
	Power Requirements	110-480V AC, 50/60Hz, 3-phase
	Compressed Air	0.4-0.8 MPa, 50-500 L/min
Assembly Module	Positioning Accuracy	±0.01-0.5 mm
	Fastening Torque Range	0.1-100 Nm (servo-controlled)
	Gripper Options	Pneumatic/vacuum/servo-electric
	Max Payload Capacity	0.1-50 kg/station
Inspection Module	Vision System	2D (1-12MP)/3D (laser profilometry)
	Measurement Accuracy	±0.005-0.1 mm
	Defect Detection	Dimensional, surface, missing components
	OCR/OCV Capability	Font size ≥0.5 mm
Material Handling	Conveyor Type	Belt/chain/pallet/linear motor
	Speed Range	0.1-5 m/s
	Positioning Repeatability	±0.05-0.5 mm
Control System	PLC	Siemens/Rockwell/Beckhoff

Category	Parameter	Description/Value
	HMI	10"-24" touchscreen (multi-language)
	Communication Protocols	PROFINET, EtherCAT, EtherNet/IP
	Data Management	SQL database, MES/ERP integration
Quality Metrics	First Pass Yield	≥99.0-99.9%
	False Acceptance/Rejection Rate	≤0.1-0.5%
	MTBF	2,000-10,000 hours
Environmental	Operating Temperature	0-45°C (standard), -20-60°C (extended)
	Humidity	10-90% RH (non-condensing)
	Cleanroom Options	ISO Class 5-8
Safety & Compliance	Safety Standards	ISO 13849-1 (PLd), ANSI B11, CE/UL
	Protection	Light curtains, safety mats, emergency stops
	Industry Certifications	ISO 9001, IATF 16949, FDA (as applicable)

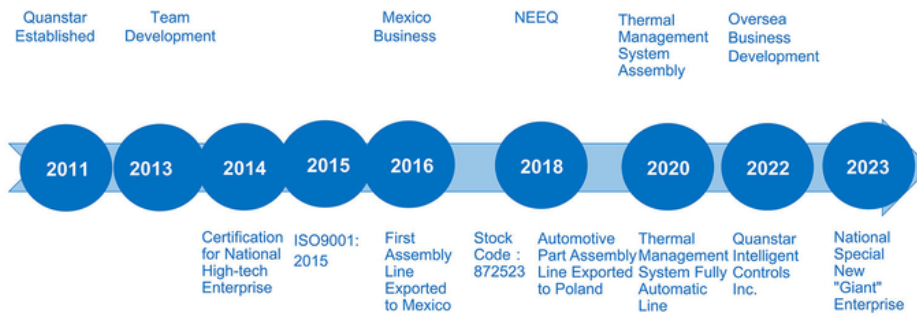
Automotive Industry & Related Auto Parts



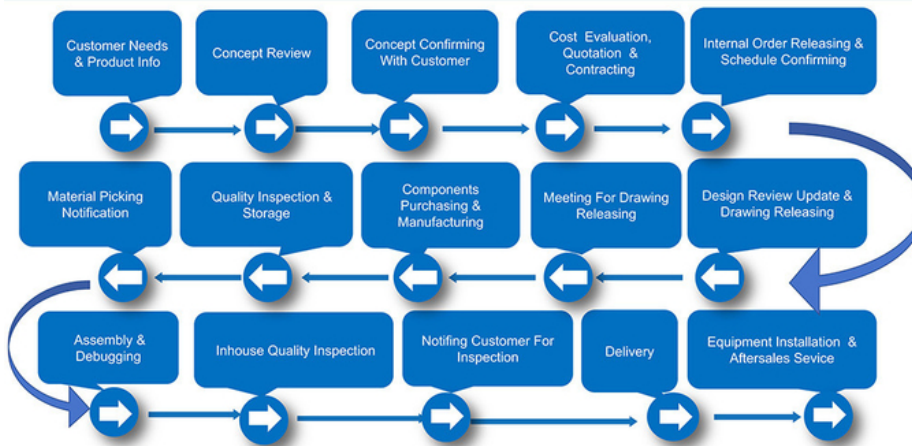
Business Global Service



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.



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