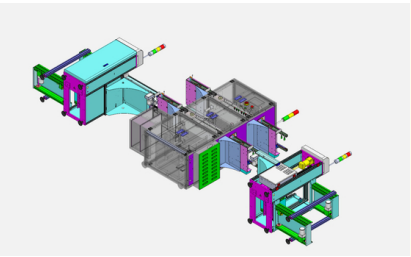
SMT On-line ICT And FCT Double-layer Multi-function Automatic Testing Machine Automation Assembly Line

Our Product Introduction

Basic Information

- Place of Origin: ShangHai
- Brand Name: QuanStar
- Certification: International Organization for Standardization
- Model Number: ICT and FCT double-layer multi-function automatic testing machine
- Packaging Details: wooden box
- Payment Terms: letter of credit, T/T



Product Specification

- Plae Of Origin: Shanghai
- Function: Automate Assembly Process
- Flexibility: High
- Cost: Cost-effective
- Application: Manufacturing
- Assembled Products: Electric Power Steering (EPS) System
- Reliability: High
- Highlight: **SMT ICT FCT automatic testing machine**, **Multi-function Automatic Testing Machine**

Product Description

Functional Features

- **Multifunctional Integration**:
  It integrates two important test functions, ICT and FCT, into one device. It can not only complete the detection of the basic circuit connection and component performance of circuit boards and other electronic products (ICT function), but also quickly verify whether the final function meets the standards (FCT function). It avoids the cumbersome operations such as transportation and calibration caused by using multiple different devices for separate testing and the possible connection problems.
- **High Degree of Automation**:
  It is equipped with an automatic loading and unloading device. The circuit boards and other products to be tested can be accurately sent to the test area through conveyor belts, robotic arms, etc., and then automatically taken out and placed in the corresponding good or defective product areas after the test is completed. Moreover, the entire test process is automatically carried out according to the preset program. Test parameters and processes can be flexibly set through the software interface, reducing human intervention and improving the accuracy and consistency of the test.
- **High Test Precision**:
  For the ICT part, it can accurately detect small changes in resistance and capacitance values and slight conduction abnormalities of the lines; for the FCT part, it can accurately simulate various complex actual working condition signals and accurately judge whether the product functions are normal. It can effectively identify some intermittent faults, soft faults and other problems that are not easy to detect, ensuring the quality of the product.
- **Data Recording and Analysis**:
  During the test process, various test data will be recorded in real time, including the specific values of each test point, test time, test results and other information. Through the supporting data analysis software, a large amount of test data can be statistically analyzed, such as calculating the defective product rate, analyzing the common fault types and their distribution positions, etc., which is convenient for manufacturing enterprises to timely discover problems in the production process and make targeted improvements and optimizations.

Advantages and Significance

- **Improving Production Efficiency**:
  Due to its double-layer layout and the characteristics of automatic operation, compared with the traditional single-function and single-station test methods, more products can be tested in unit time, shortening the test cycle of products and accelerating the progress of the entire production process. It helps enterprises to bring products to the market faster.
- **Enhancing Product Quality**:
  Through comprehensive and accurate ICT and FCT tests, various potential problems existing in products, whether at the circuit level or the functional level, can be detected in advance, avoiding defective products from flowing into the subsequent assembly, packaging, and final sales links, improving the overall quality level and brand reputation of enterprises' products.
- **Reducing Costs**:
  It reduces the costs of after-sales maintenance, returns and exchanges caused by the outflow of defective products. At the same time, by analyzing the test data to optimize the production process, it can also reduce the costs of raw material waste and rework in the production process, improving the economic benefits of enterprises.

FAQs

Q: Are you a trading company or a manufacturer?

A: We are a manufacturer with over 10 years of experience in production and development.

Q: What are your main products?

A: We are an assembly automation solution provider specializing in customized automated production machinery. For example, we provide customized assembly lines, testing, and packaging solutions for various electric vehicle (EV) manufacturers, such as component-level production lines for battery packs, thermal management systems, steering systems, etc.

Q: What is your delivery time?

A: Generally, 3 months is a production cycle, and the specific delivery date should be arranged according to the complexity of the product and the real-time production plan. Please contact us for the latest delivery date.

Q: What about your prices?

A: Show us your parts, and we'd be happy to find a solution, provide a suitable proposal, and offer you the most competitive pricing.

Q: What are your payment terms?

A: A 40% deposit is required before delivery, with the remaining 60% as the balance.

Q: What kind of packaging do your machines come with?

A: We have standard wooden crate packaging.

Q: How long is the warranty period?

A: Our after-sales service includes a one-year free warranty and a guarantee of lifelong maintenance.

Q: Which partners do you collaborate with?

A: We can collaborate with customers' designated partners or recommend other component partners based on customers' requirements.

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