Siemens D4i Pick and Place Machine

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: ASM/SIEMENS
- Model Number: D4i
- Minimum Order Quantity: 1 PCS
- Price: USD+negotiable+pcs
- Packaging Details: 2100*2800*1800mm
- Delivery Time: 5-15 days
- Payment Terms: T/T
- Supply Ability: 1+pcs+per days

Product Specification

- Placement Head Model Placement Area 1: C&P12/C&P12
- Placement Head Model Placement Area 2: C&P12/C&P12
- Placement Speed (CPH) IPC Value: 57000
- PlacePlacement Speed (CPH) Benchmark Valuement Speed (CPH): 66000
- Placement Speed (CPH) Theoretical Value: 81500
- Component Height(mm): 6
- Component Dimensions (mm) mm : 01005-18.7×18.7
- Placement Accuracy (mm)@3°: ±0.05
- Component Feeding: 8mm/Max.148
- PCB Max (mm): 610×508

More Images

Product Description

Unleashing Efficiency: The Siemens D4i Precision Pick and Place Machine

The Siemens D4i Precision Pick and Place Machine represents a significant advancement in the field of surface mount technology (SMT). This article explores its features, benefits, and applications in modern manufacturing, emphasizing its role in enhancing productivity and precision.

Introduction to Siemens D4i

The Siemens D4i Machine is engineered for high-speed component placement, making it an essential tool for manufacturers aiming to optimize their production lines. With capabilities to handle a wide range of components from 01005 to 18.7x18.7 mm², this machine is designed to meet the demands of various industries, including electronics, automotive, and telecommunications.

Siemens D4i Machine

Key Features of the Siemens D4i Machine

1. High Speed and Precision
- The D4i boasts an impressive IPC speed of up to 57,000 components per hour (cph) and a theoretical speed of 81,500 cph. This makes it one of the fastest machines available in the market today.
- It achieves a mounting accuracy of ±50µm/3σ, ensuring that components are placed with extreme precision.
2. Advanced Placement Heads
- Equipped with four gantries and four 12-nozzle Collect&Place heads, the D4i can perform multiple placements simultaneously, significantly reducing cycle times.
3. Flexible PCB Handling
- The machine can accommodate PCBs ranging from 50x50 mm² to 610x508 mm² and supports thicknesses from 0.3 mm to 4.5 mm, allowing for versatility in production.
4. Enhanced Feeder Capacity
- The feeder capacity allows for up to 144 feeders, which can be customized according to production needs.
5. Digital Imaging System
- The integration of a digital imaging system enhances the machine's ability to verify component placement in real-time, ensuring quality control throughout the manufacturing process.

Benefits of Using Siemens D4i

- Cost Efficiency: By maximizing throughput and minimizing errors, the Siemens D4i Machine helps reduce production costs while maintaining high-quality standards.
- Flexibility: Its ability to handle a variety of components makes it suitable for both high-volume and low-volume production runs.
- User-Friendly Interface: The intuitive software interface simplifies operation and reduces training time for new users.

Applications in Various Industries

The versatility of the Siemens D4i Machine allows it to be utilized across different sectors:
- Electronics Manufacturing: Ideal for assembling smartphones, tablets, and other consumer electronics.
- Automotive Industry: Used for placing components on circuit boards found in vehicles.
- Telecommunications: Essential for producing communication devices that require high-density PCB assembly.

Conclusion

The Siemens D4i Precision Pick and Place Machine stands out as a leader in SMT technology due to its speed, precision, and versatility. As industries continue to evolve towards more automated solutions, machines like the D4i will play a crucial role in shaping the future of manufacturing.

Frequently Asked Questions (FAQs)

1. What is the maximum speed of the Siemens D4i Machine?
- The maximum theoretical speed is 81,500 components per hour.
2. What types of PCBs can the D4i handle?
- It can accommodate PCBs ranging from 50x50 mm² to 610x508 mm².
3. How accurate is component placement with the D4i?
- The machine achieves a mounting accuracy of ±50µm/3σ.
4. Can the D4i be used for low-volume production?
- Yes, its flexibility allows it to handle both high-volume and low-volume production runs effectively.
5. What industries benefit from using the Siemens D4i?
- It is widely used in electronics manufacturing, automotive industry, and telecommunications.

Siemens D4i Pick and Place Machine | GSSMT, Siemens D4i Machine, Precision Pick and Place, Surface Mount Technology, High-Speed SMT Machine, PCB Assembly Solutions, Automated Component Placement, SMT Equipment Manufacturer, Electronic Manufacturing Services, Advanced Placement Technology, Industry 4.0 Automation, High-Volume Production Systems, Flexible PCB Handling, Digital Imaging Systems, SMT Production Efficiency, Component Mounting Accuracy, Multi-Gantry Systems, High-Capacity Feeders, Real-Time Quality Control, Electronics Assembly Line, Cost-Effective Manufacturing Solutions

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