



## High Speed Samsung Pick And Place Machine SMT Pick And Place System SM431

### Our Product Introduction

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#### Basic Information

- Place of Origin: China
- Brand Name: Samsung
- Model Number: SM431
- Minimum Order Quantity: 1 PCS
- Price: USD+negotiable+pcs
- Packaging Details: 1350\*1750\*1550mm
- Delivery Time: 1-7 days
- Payment Terms: T/T
- Supply Ability: 1+pcs+per days



#### Product Specification

- Model: SM431
- Centering Method: Flight Vision
- Positioning Speed: Chip 55K CPH (optimal Conditions)
- Positioning Range: Max.0402 ~12mm(Component Height H = 7mm)
- Mounting Accuracy:  $\pm 50 @m+ 3ip$
- PCB Size: Max.460mm(L)\* 460mm(W)
- Number Of Shelves: 8\*4mm 84pcs
- Operation System: Windows XP
- Power Consumption: MAX 5.0KVA
- Overall Dimension: L 1240×w 1660×h 1420 Mm
- Machine Weight: 1500KG
- SMT Components Range: Max.0402 12mm (H=7MM)
- Machine Size: 1240(L)\*1660mm(D)\*1420mm(H)
- Condition: Original New/Used Original



## Product Description

# Samsung Pick And Place Machine High Speed SMT Pick And Place System SM431

## Exploring the Samsung SM431 Pick and Place Machine: A Comprehensive Guide

### Introduction

The Samsung SM431 Pick and Place Machine is a state-of-the-art solution designed for surface mount technology (SMT) applications. With its impressive capabilities, including high-speed placement and advanced image recognition systems, the SM431 is a preferred choice for manufacturers looking to enhance their production efficiency. This article provides an in-depth exploration of the SM431, detailing its specifications, operational features, and advantages in the manufacturing process.

### Overview of the Samsung SM431

The Samsung SM431 is engineered to meet the demands of modern electronic manufacturing. Below are some key specifications that highlight its capabilities:

- Speed: The SM431 can achieve a maximum placement speed of 55,000 components per hour (CPH) under optimal conditions[1][4].
- Dual-arm System: It features a dual-arm Y-axis dual servo drive system, allowing for efficient and precise component placement[1][7].
- Placement Heads: The machine is equipped with a total of 16 placement heads, enhancing its ability to handle various components simultaneously[1][8].
- Component Compatibility: It can accommodate components ranging from 0402 mm chips to 12 mm ICs, making it versatile for different applications[1][4].

### Key Features of the SM431

#### High-Speed Performance

The SM431's ability to operate at high speeds is one of its most significant advantages. With a top speed of 55,000 CPH, it significantly reduces production time while maintaining accuracy. This speed is critical in high-volume manufacturing environments where efficiency is paramount.

#### Advanced Image Recognition

Equipped with a high-speed flight image recognition system, the SM431 ensures precise placement of components. This technology enhances the machine's ability to identify and position components accurately, reducing errors and improving overall production quality[1][2].

#### User-Friendly Interface

The SM431 features an LCD display that allows operators to monitor the machine's performance easily. The interface is designed for both front and rear operation, facilitating ease of use in various manufacturing setups[1][4].

#### Operational Efficiency

The operational efficiency of the Samsung SM431 is enhanced by several factors:

- Automatic Changeover: The machine includes an automatic mouth change device, which streamlines the process of switching between different component types[1][4].
- Feeder Capacity: It can hold up to 84 8mm feeders, allowing for a diverse range of components to be loaded simultaneously[1][8].
- Safety Features: The SM431 is designed with safety in mind, featuring covers that protect operators during operation[1].

### Applications of the Samsung SM431

The versatility of the Samsung SM431 makes it suitable for various applications in electronic manufacturing:

- Consumer Electronics: Ideal for assembling smartphones and other consumer devices where high precision and speed are required.
- Automotive Components: Used in the production of automotive electronics, ensuring reliability and performance.
- Industrial Equipment: Suitable for manufacturing complex industrial systems that require precise electronic components.

### Conclusion

In conclusion, the Samsung SM431 Pick and Place Machine stands out as a leading solution in SMT technology. Its combination of speed, accuracy, and user-friendly features makes it an essential tool for manufacturers aiming to optimize their production processes. As technology continues to evolve, machines like the SM431 will play a critical role in meeting the growing demands of electronic manufacturing.

### Frequently Asked Questions (FAQ)

1. What is the maximum speed of the Samsung SM431?
  - The maximum speed is 55,000 components per hour under optimal conditions.
2. What types of components can be placed using the SM431?
  - The machine can handle components ranging from 0402 mm chips to 12 mm ICs.
3. How many feeders can the SM431 accommodate?
  - It can hold up to 84 8mm feeders.
4. Does the SM431 have any safety features?
  - Yes, it includes safety covers to protect operators during operation.
5. Is there an automatic changeover feature?
  - Yes, it has an automatic mouth change device for efficient switching between component types.

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