



PRODUCT OVERVIEW

The Standalone Vertical SMT Pick & Place Machine is designed for high-speed and accurate SMT component placement in PCB assembly applications. The machine supports multi-component handling with advanced vision alignment, high precision servo-driven motion control, and intelligent feeder management.

The system is suitable for electronics manufacturing industries, SMT assembly lines, prototype development centers, R&D laboratories, and technical training institutes.

KEY FEATURES

- 4 High-Speed Mounting Heads
- Support for 44 Feeders
- Servo Motor Driven Motion System
- Precision Ball Screw Guide Rail Mechanism
- High Accuracy Component Placement
- Advanced Vision Alignment System
- Automatic Fiducial Recognition
- Support for Multiple SMT Component Packages
- User-Friendly Windows-Based Software
- Compact Standalone Vertical Structure
- Suitable for Medium Scale SMT Production

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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TECHNICAL SPECIFICATIONS

Parameter	Specification
Mounting Heads	4
Number of Feeders Supported	44 Nos
Maximum Circuit Board Area	350 × 280 mm
Maximum Z-Axis Movement Range	20 mm
Positioning Accuracy	0.01 mm
Mounting Angle	0 – 360°
Suction Nozzle Buffering Range	4.5 mm
Mounting Speed	5000 – 7000 Components/Hour
Drive Motor	Servo Motor
Guide Rail	Ball Screw
Nozzle Type	Juki Type
Supported Components	0201, 0402, 0603, 0805, 1206, SOT, SOD, SOP, SSOP, QFN, VCQFN, BGA etc.
Number of Cameras	6
Mark Camera	1
HSPD Camera	4
HD Camera	1
Maximum Chip Size	40 × 40 mm
Maximum Component Height	≤ 7 mm
Minimum Pin Spacing	0.5 mm
Feeder Types Supported	Pneumatic Feeder 8/12/16/24 mm, Vibrator Feeder, Electrical Feeder, IC Tray
PC System	Windows 10
Compatible File Format	.csv / .txt
Compressed Air Requirement	0.5 – 0.6 MPa
Power Consumption	600 Watts
Power Supply	230 V / 50 Hz or 110 V / 60 Hz
Machine Dimensions (L × W × H)	900 × 1140 × 1130 mm
Machine Weight	280 kg

SOFTWARE FEATURES

- Auto Feeder Adjustment
- Camera Algorithm for Different Packages
- Auto Fiducial Mark Adjustment for PCB Editing
- Individual Mark Setting for Array Boards

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- Individual Component Placement
- Group Component Placement
- Nozzle Dirty Warning Function

APPLICATIONS

- SMT PCB Assembly
- Electronics Manufacturing Units
- PCB Prototype Production
- LED PCB Assembly
- Industrial Electronics Production
- Research & Development Laboratories
- Educational & Technical Training Institutes

STANDARD CONFIGURATION

- SMT Pick & Place Machine
- 4 Mounting Heads
- Vision Alignment Camera System
- Feeder Support Mechanism
- Servo Motion Control System
- Ball Screw Guide Rail System
- Industrial PC with Software
- Power Cable & Standard Accessories

ADVANTAGES

- High Placement Accuracy
- Compact and Space Saving Design
- Fast Component Placement Speed
- Stable Servo Driven Motion System
- Easy Operation and Programming
- Wide Component Compatibility
- Suitable for Continuous Production
- Low Maintenance Requirements

OPERATING REQUIREMENTS

Electrical Requirement

- Input Supply: 230 V AC / 50 Hz

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- Power Consumption: 600 Watts

Pneumatic Requirement

- Clean & Dry Compressed Air
- Air Pressure: 0.5 – 0.6 MPa

INDUSTRIAL USAGE

Widely used in:

- SMT Manufacturing Industries
- PCB Assembly Facilities
- Electronics Production Units
- Technical Training Laboratories
- Industrial Automation Projects
- Research & Development Centers

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