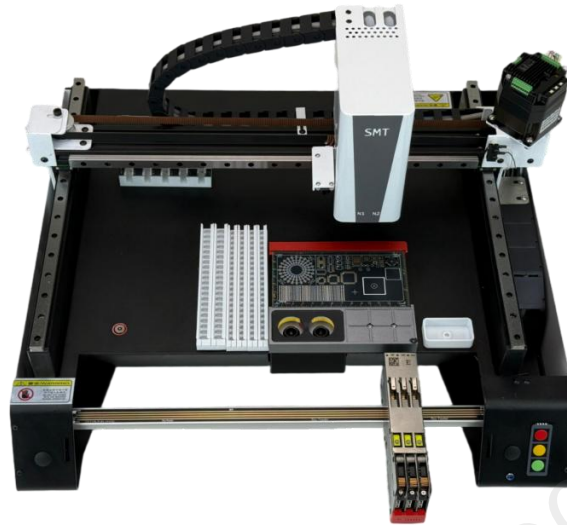


## Mini Pick & Place Machine - Desktop SMT V6 Pro Intro



### 1. Overview

It is an advanced desktop pick-and-place machine designed for precise and efficient PCB assembly. With a three-vision camera system, automatic feeders, and dual placement heads.

Its compact design suits both home and professional environments, offering intelligent, high-speed features for small-scale prototyping and diverse production needs.

\*Workflow: 1) Solder paste printing/Dispensing solder paste 2) SMT 3) Reflow soldering.

### 2. Feature

- 2.1. **High Precision:** Simultaneous top and bottom camera capture, with up to three cameras on the machine. Closed-loop stepper motor control ensures stability with no missed steps. Custom nozzle motor is durable, and the linear guide structure ensures smooth movement.
- 2.2. **Fast & Efficient:** Thanks to powerful S-curve motion control, speed is 80% faster than similar machines, with a maximum placement speed of up to 3000 CPH, ensuring stability and minimal vibration.
- 2.3. **Easy Operation:** Proprietary intelligent placement software with a simple interface and clear logic. Guided tutorial-style help files are available. Supports passive automatic head change and multiple types of Mark recognition.
- 2.4. **Versatile Feeding:**① Vision-assisted loose part feeder, capable of handling polarized components with ease.② Electric feeder with automatic barcode marking, driven by all-metal gears, compact and supports 0402 components.③ Loose part feeder.④ Tray feeder.
- 2.5. **Sturdy & Stable:** Integrated welded sheet metal frame, stable at high speeds with no vibration. Linear guide ensures smooth and steady motion.

### 3. Specs

<b>Carton Size</b>	W65×D55×H42 cm	<b>*Packaging Weight</b>	24 kg(G.W)
<b>Machine Size</b>	W53×D45×H33 cm	<b>Machine Weight</b>	18.4 kg(N.W)
<b>XYZ Stroke</b>	X350×Y300×Z20 mm	<b>Max PCB Area</b>	W300×D200 mm
<b>Vision Camera</b>	One Top&Dual Bottom	<b>Frame</b>	Integrated Sheet Metal
<b>Placement Head</b>	Dual	<b>Feeder Capacity</b>	12×8mm Tri-tape E- Feeder 20× Strip Feeder
<b>Position Accuracy</b>	0.05mm	<b>Nozzle Recoil Range</b>	5mm
<b>Drive Motor</b>	57 Closed Loop Stepper	<b>Light Source</b>	LED
<b>OS</b>	Windows 7 and above	<b>Software</b>	SMTEZ
<b>Power Supply</b>	220V/110V	<b>Average Power</b>	150W
<b>XY Axis Rotation</b>	Timing Belt + Linear Guideway	<b>Max Speed</b>	3100 mm/s
<b>Tripe Vision Mounting Speed</b>	2500 CPH	<b>Vision-less Mounting Speed</b>	3000 CPH
<b>Vacuum</b>	External vacuum pump	<b>Electric Feeder</b>	Tri-tape Auto Feeder 485 Communication
<b>Programming</b>	CSV coordinate file import or manual entry		
<b>SMT Range</b>	0402/0603/0805/1206/LED lamp beads Diode, transistor, SOT/Within the range of 15×15mm QFP, BGA, etc. with a pin count of less than 100 and a pitch of more than 0.3mm.		

### 4. Warranty

- 4.1. 12-month warranty for quality problems caused by non-human factors
- 4.2. After the warranty period expires, parts will be replaced and repaired at cost price.

### 5. Default & Optional

#### 5.1. Default Delivery List

Sort	Name	Quantity	Mark
Machine	Desktop SMT V5 Pro	1	Dual placement heads, Triple Vision
Nozzle Feeder	CN065	1	0603, 0805
	CN140	1	1206, Sop8
	Strip Feeder	3	8mm×2、12mm×1
	8mm Tri-tape Auto Feeder	1	Supports 0402 to SOP16, Positioning accuracy 0.01mm
Others	Nozzle Change Holder	1	5 workstations, providing 4 nozzle replacements
	Calibrate PCB	1	Calibration Position
	Vacuum Pump	1	Provides vacuum power to the nozzle



5.2. Optional

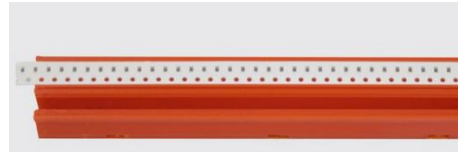
Sort	Name	Applicable Component	OD/mm	ID/mm	Price
Nozzle	CN030	0201	0.7	0.28	\$4
	CN040	0402	0.7	0.4	
	CN065	0603, 0805	1.2	0.6	
	CN140	1206, Sop8, sop8	2.2	1.1	
	CN220	Sop8 sop16	3.6	2.2	
	CN400	Sop8 & above large components	6.2	4.0	
Feeder	8mm Strip Feeder	8mm Wide Tape, 3D Printed	\$1.8		
	12mm Strip Feeder	12mm Wide Tape , 3D Printed			
	16mm Strip Feeder	16mm Wide Tape , 3D Printed			
	Vision Feeder	Uniform luminescence, clear component outline recognition rate of 99% *Can' t be used for square component *Only one can be mounted on the magnetic base power supply	\$13		
	8mm Tri-tape Auto Feeder	Tape Wide 8mm, positioning accuracy 0.01mm	\$40		
	12mm Dual-tape Auto Feeder	Tape Wide 12mm, positioning accuracy 0.01mm	\$30		
	16mm Dual-tape Auto Feeder	Tape Wide 16mm, positioning accuracy 0.01mm			
Solder Paste Stencil Printing Station		Effective size 170×170mm	\$52		

### 6. Details

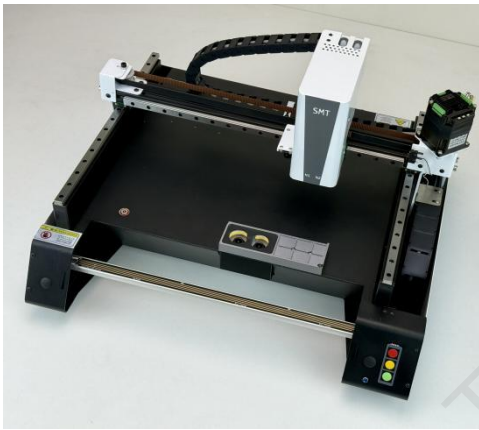
Auto Feeder



Strip Feeder



Machine



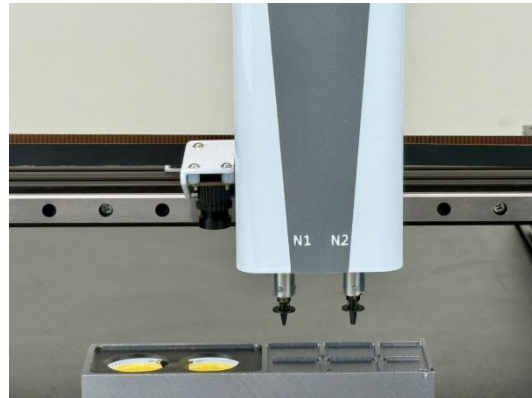
New Vision Feeder



Vision



Dual Nozzle



Samsung Nozzles



New Nozzle Changer

