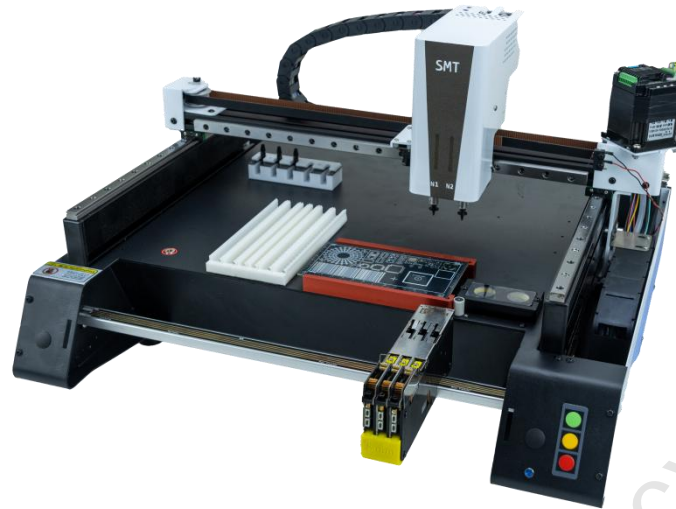


## Mini Pick & Place Machine - Desktop SMT Ultra Intro



\$1599

### 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.

\*Work flow: 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>Equip Size</b>	W530×D450×H330mm	<b>Equip Weight</b>	18.4 kg(N.W)
<b>Packaging Size</b>	W647×D545×H390mm	<b>*Packaging Weight</b>	24 Kg(G.W)
<b>XYZ Stroke</b>	X260×Y370×Z20mm	<b>Max PCB Area</b>	W220×D300mm
<b>Vision Camera</b>	Triple, 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/50HZ	<b>Average Power</b>	150W
<b>XY Axis Rotation</b>	Timing belt + Linear Guideway	<b>Max Speed</b>	3100 mm/s
<b>Tree-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/45×45mm range pins QFP, BGA, etc. with pitch greater than 0.3mm		

### 4. Default & Optional

#### 4.7. Default Delivery List

Sort	Name	Quantity	Mark
Equip	Desktop SMT Ultra	1	High-speed dual placement heads, Triple Vision, automatic head change
Nozzle	CN065	1	0603, 0805
	CN140	1	1206, Sop8
Feeder	Strip Feeder	3	8mm、12mm、16mm one of each
	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

## 4.8. Optional

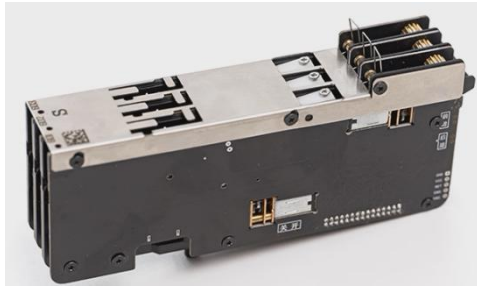
Sort	Name	Applicable Component	OD(mm)	ID(mm)	Price
Nozzle	CN040	0402	0.7	0.4	\$8
	CN065	0603, 0805	1.2	0.6	\$8
	CN 140	1206, sop8	2.2	1.1	\$8
	CN220	Sop8 sop16	3.6	2.2	\$8
	CN400	Sop8 & above large components	6.2	4.0	\$8
Feeder	8mm Strip Feeder	8mm Wide Tape, 3D Printed			\$4
	12mm Strip Feeder	12mm Wide Tape , 3D Printed			\$4
	16mm Strip Feeder	16mm Wide Tape , 3D Printed			\$5
	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			\$15
	8mm Tri-tape Auto Feeder	Tape Wide 8mm, positioning accuracy 0.01mm			\$49
	12mm Dual-tape Auto Feeder	Tape Wide 12mm, positioning accuracy 0.01mm			\$40
	16mm Dual-tape Auto Feeder	Tape Wide 16mm, positioning accuracy 0.01mm			\$40
Solder Paste Stencil Printing Station		Effective size 170×170mm			\$52

## 5. Warranty

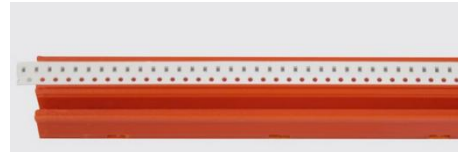
- 5.1. 12-month warranty for quality problems caused by non-human factors
- 5.2. After the warranty period expires, parts will be replaced and repaired at cost price.

## 6. Details

Auto Feeder



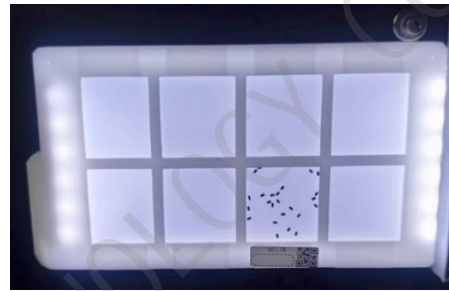
Strip Feeder



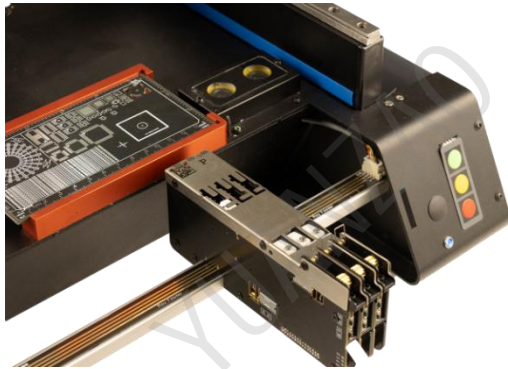
Machine



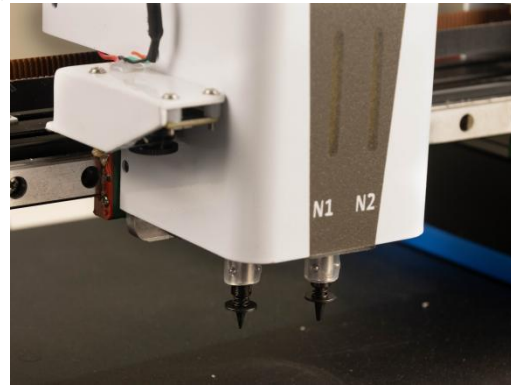
Vision Feeder



Triple Vision



Dual Nozzle



Samsung Nozzles



Nozzle Tip Changer

