

## S-800s Auto Pick&Place production line

**ROI < 9 Months !**



Semi-Auto Screen Printer → Semi-Auto Pick and Place → Buffer Conveyor → Reflow Oven → Buffer Conveyor  
 1200mm                      2000mm                      1500mm                      3000mm                      1500mm

Whole Line length: 1.2M → 2M → 1.5M → 3M → 1.5M = 9.2M (Total Length)

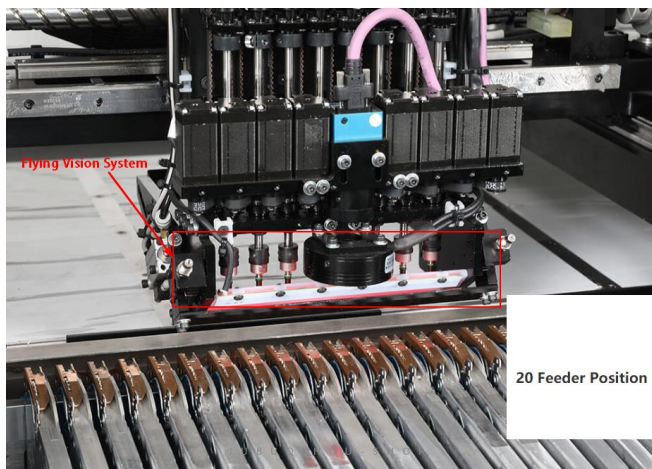
# S-800S Pick&Place machine



## • Product Features

- Vision On the Fly Alignment
- Bottom Vision Alignment System for big components/IC
- Fiducial recognition and coordinate correction
- Three-section conveyor system with SMEMA interface and automatic width-control
- Magnetic levitation linear motor in X and Y axis for high repeatability and stability
- Smart Nozzle System provides automatic nozzle checking and replacing
- Perfect for medium & high volume production
- Strong and rigid mechanical design
- Optimized pick / place routing design, ensures precision and speed
- Each mounting head has its own Z- direction step-servo motor, which is designed for vertical motion
- Works with different types of high-precision nozzle
- For different PCB , FPC, MCPCB, PSB, etc.;
- Suit for variety of SMD components: resistors, capacitors, IC, QFP, CFP, etc.

# High speed placement with 8 heads



Model		S-800S
Number of Heads	Flying vision system	8
Placement Rate	Under the optimum condition	32000CPH
Feeder Capacity	IPC9850	26800CPH
	Front and Back	20 Tape Feeders (8mm/12mm Electric Standard) <b>20+20 Tape Feeders (Optional)</b>
IC Tray Capacity IC	325 x 135mm	2
Component Alignment		Vision Detection
Component Sizes	Handled by Head Camera	Smallest: 0402 (inch)
		Largest: 10 x 8 (mm)
Resolution	Handled by Fixed Bottom Camera	Smallest: 1206 (inch)
		Largest: 30 x 30 (mm)
Rotation	X/Y Axis	Magnetic Levitation Linear Motor
	Z Axis	Step-Servo Motor
Placement Accuracy		0 to 360°
		±0.05mm

# Machine Details

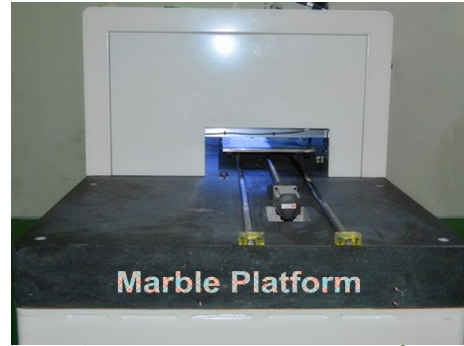
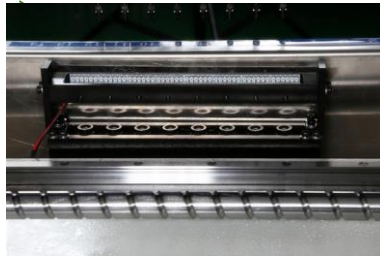


## Visual System

Each of the S-520A's eight pick-up heads is equipped with a vision alignment camera.

## 8 pick and place heads

- 1, 360-degree orientation.
- 3, Gang pick & Gang place available
- 4, Auto Vacuum detection
- 5, innovative visual recognition



## Marble Platform

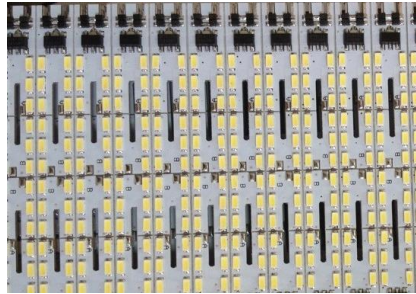
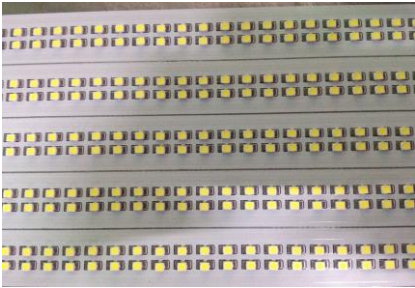
- 1, Prevents deformation for at least 100 years
- 2, High accuracy
- 3, Stable for high speed

20 feeder stations  
Motor-driven feeder slots.



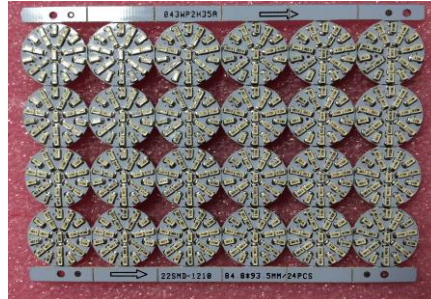


# Actual Throughput



**LED Tube:**  
**35000 CPH**

**583** tubes / Hour (60 chips/tube)



**LED Bulb:**  
**30000 CPH**

**3000** Bulbs / Hour (10 chips/Bulb)

# Return of Investment

SMT Assembly earning **\$0.001** /chips  
line throughput : **30000** Chips Per Hour

Profit(30000CPHx20Hx30D): **\$18K** per month

One line equipments Investment: **About \$70K**  
Monthly cost(consumption+salary): **\$10K**



ROI < **9** Months

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