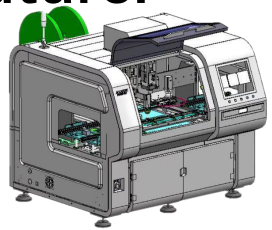
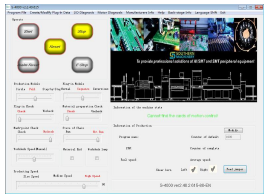
S7020 Series insertion machine

Feature:

S7020 Series Insertion Machine is designed and produced to insert components with special shape and dimension.



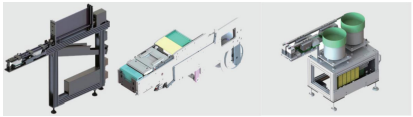
Unified Structure



Unified Software

Super Cost-effective

- You only need to **buy one** to realize a **full series of functions** (just switch the feeder and gripper).



- Easy to operate, **one day** training can be fully mastered.
- The same function, the price is only **one-third** of the Universal machine.

S7020 Series Insertion Machine

Advantages of S7020 Series Insertion Machine

*One machine can replace at least 10 labors

*Price 30% lower than other brands

*Faster speed, lower maintenance cost,$500 monthly spare parts maintenanceother

*Simple operation, grasp with 1 day training

— 7x24 Worldwide Support

— Free Installation/ Training

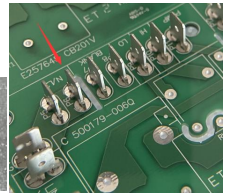
— 1 day lead-time (spare parts)

— 1 Month customize solution

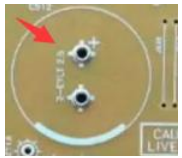
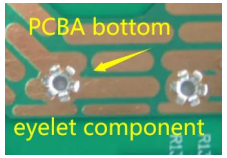
S7020 Series Insertion Machine

S7020 Series Insertion Machine including:

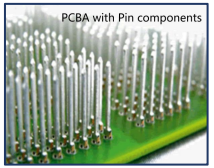
1.S7020T Terminal Insertion machine (2 insertion heads and 2 reel feeders / or 2 bowl feeders)



2.S7020E Eyelet Insertion machine (2 insertion heads and 2 Bowl feeder)

3.S7020P PIN Insertion machine (2 insertion heads and 2 reel feeder / or 2 Bowl feeder)

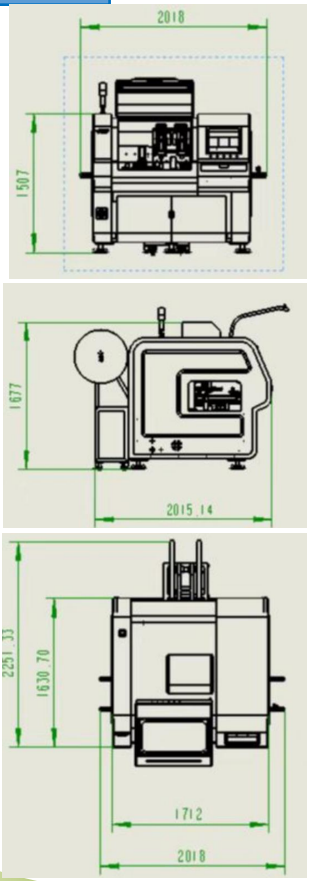


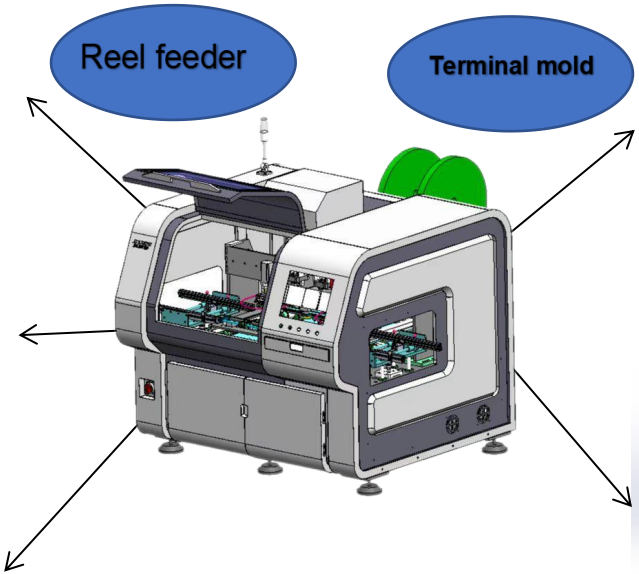
4.S7020S Tact Switch Insertion machine (2 insertion heads and 2 Bowl feeder)

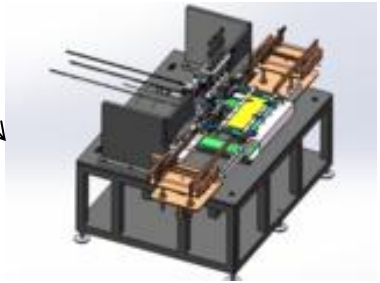
5.S7020F Oddform Insertion machine (2 insertion heads and 2 Bowl feeder /or 2 tube feeder)

S7020 Series Insertion Machine

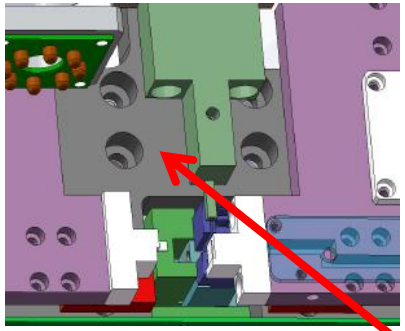
Structure



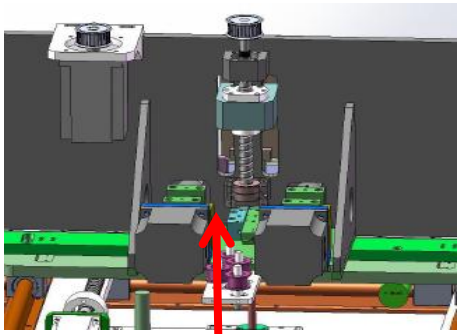




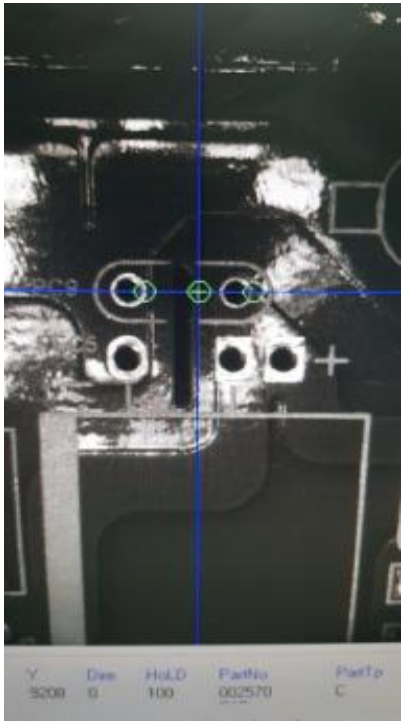
S7020 Series Insertion Machine



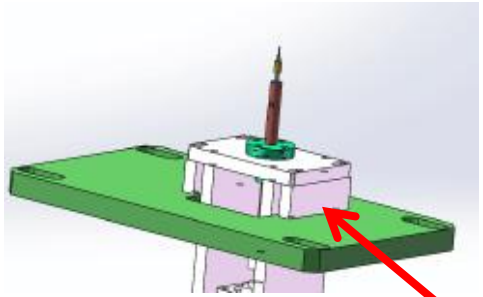
Insertion head



Feeder



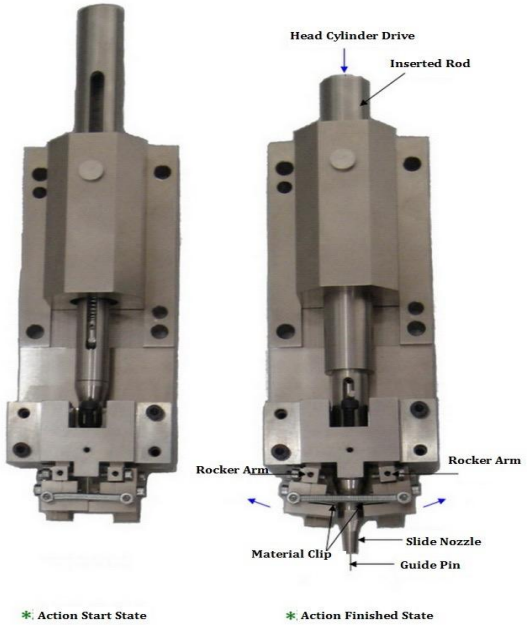
Vision programming



Clinching base(PCB support & miss check)

S7020 Series Insertion Machine

Machine Insertion Head ASSY



Connect to motor

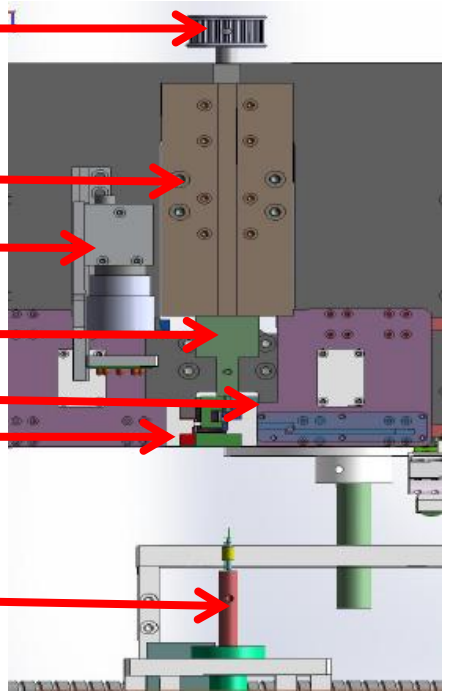
Head driver

Nozzle

R cutter

L cutter

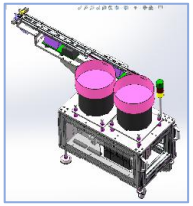
Pedestal

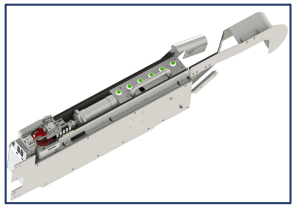


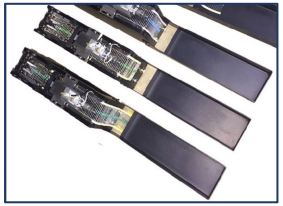
SOUTHERN MACHINERY

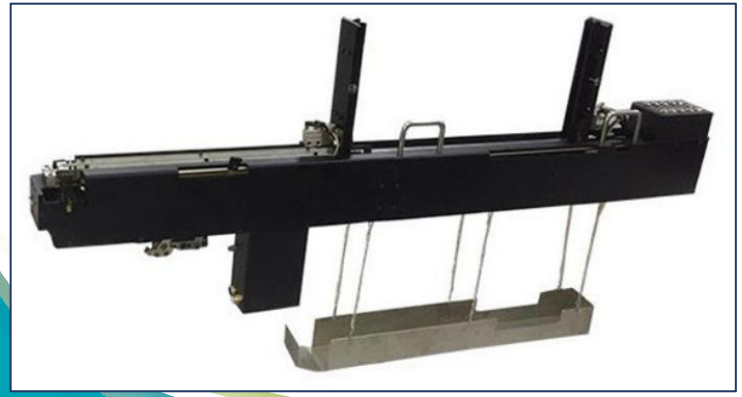
Feeding system

Design different feeders based on component package







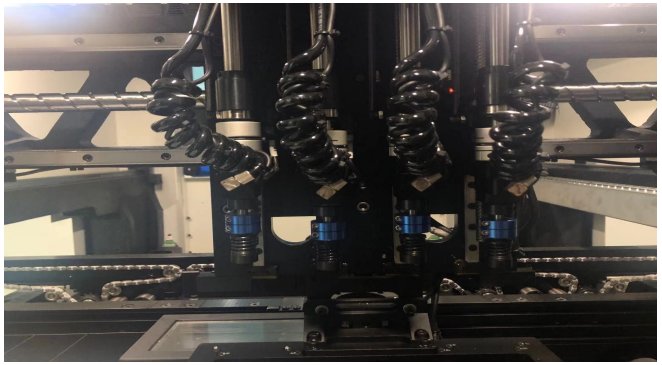


S7020 Series Insertion Machine

Clinching system

If the detection system detects that the insertion has completed successfully Go to the next step, if it is not completed, the machine will stop and report an error.) After that, the X-Y workbench will send the PCB completed by the insertion to the right track

Insertion Head Gripper/Nozzle

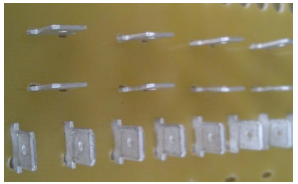


Detail Presentation about S7020T Terminal Insertion Machine

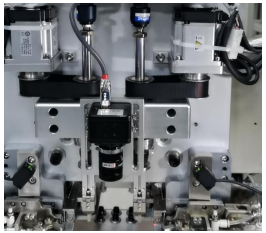
It is used to insert terminal components into a PCB automatically.

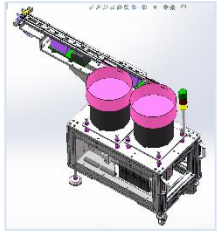
S7020T

- Applicable components: **Terminal**



- 2 insertion heads and 2 reel feeder/bowl feeder





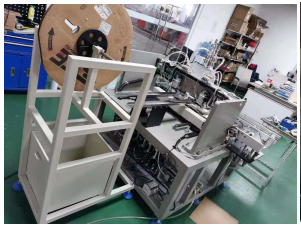
- Speed:**12000CPH**

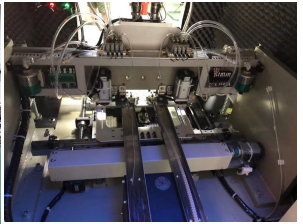
Detail Presentation about S7020T Terminal Insertion Machine

Machine can be equipped with different feeders to transport Terminal Component in different package.

Reel Feeder

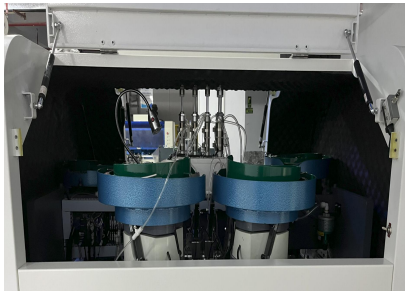
Reel Package





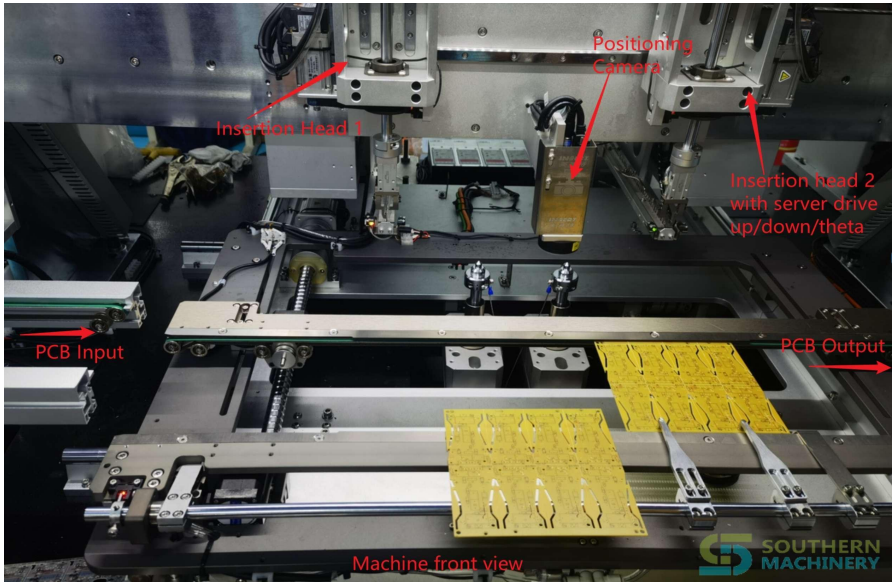
Bowl Feeder

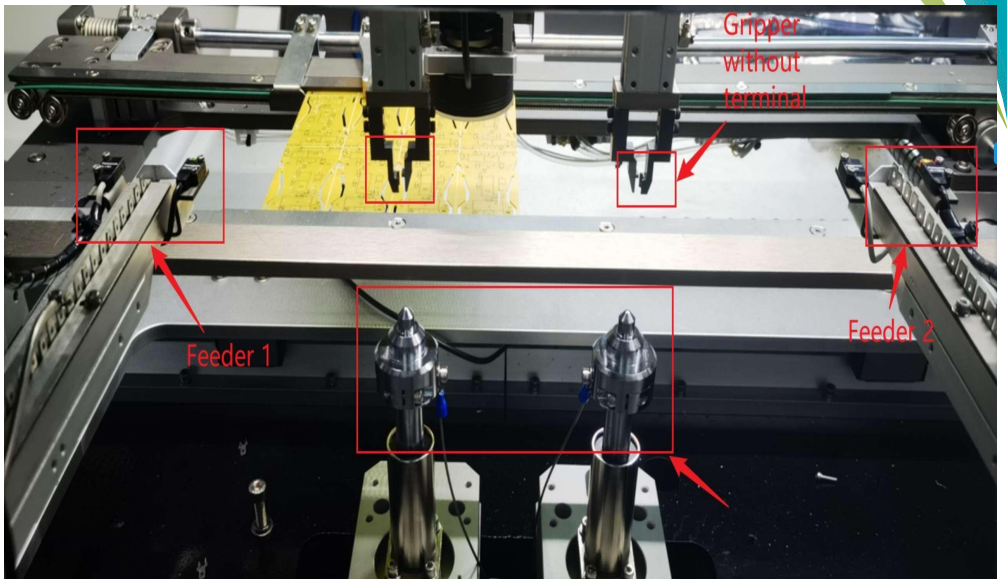
Bulk Package(loose)



S7020T Terminal Insertion Machine

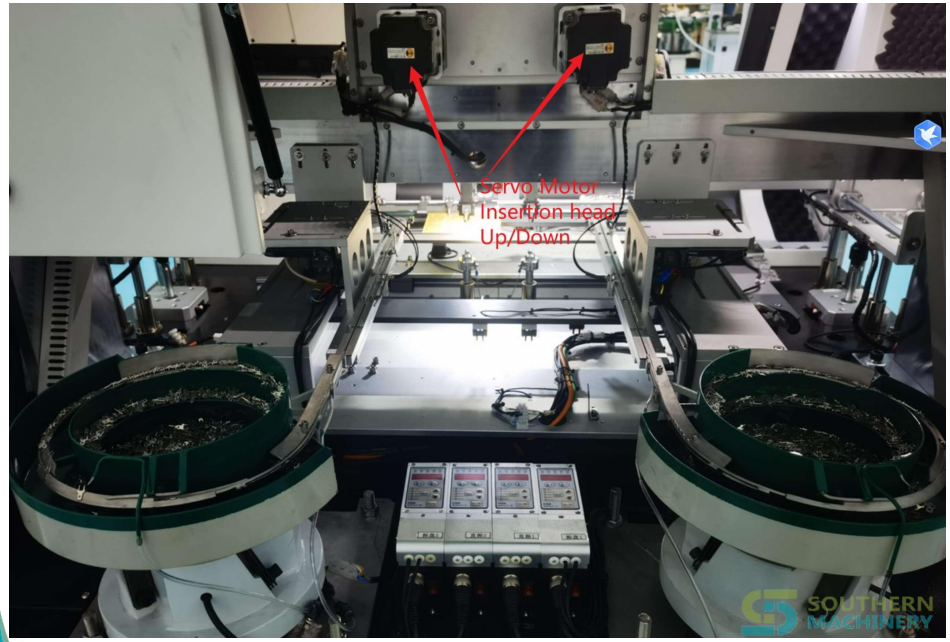
Machine main sub-assembly

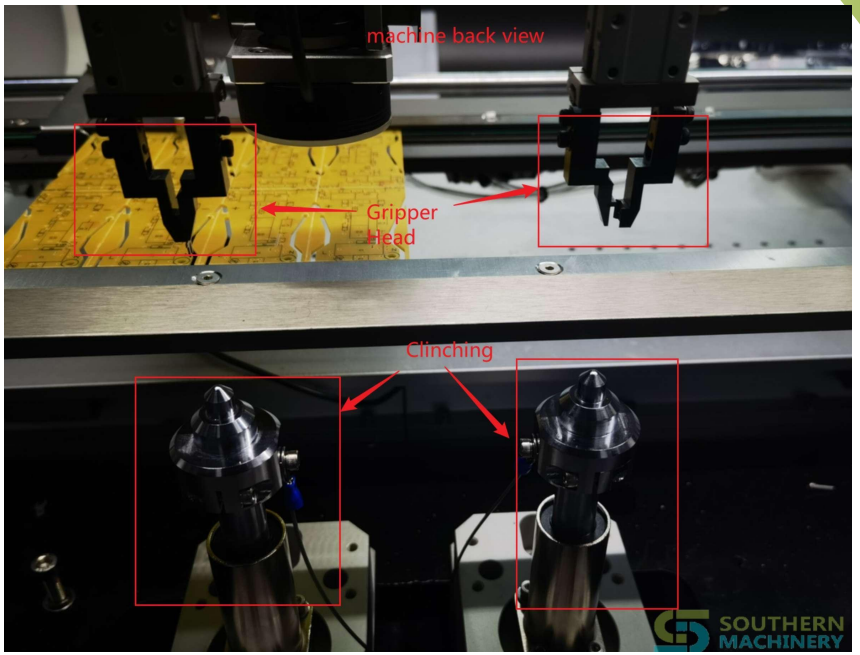




S7020T Terminal Insertion Machine

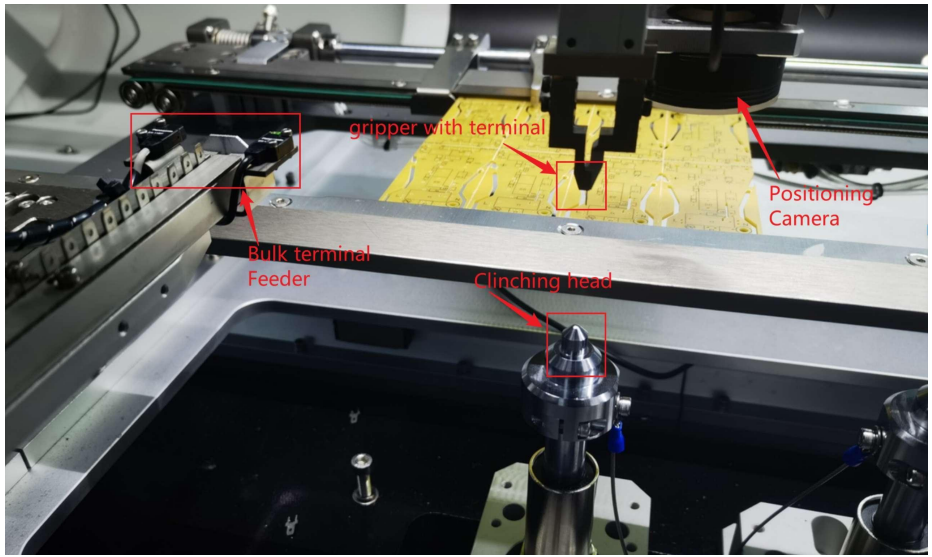
Machine main sub-assembly

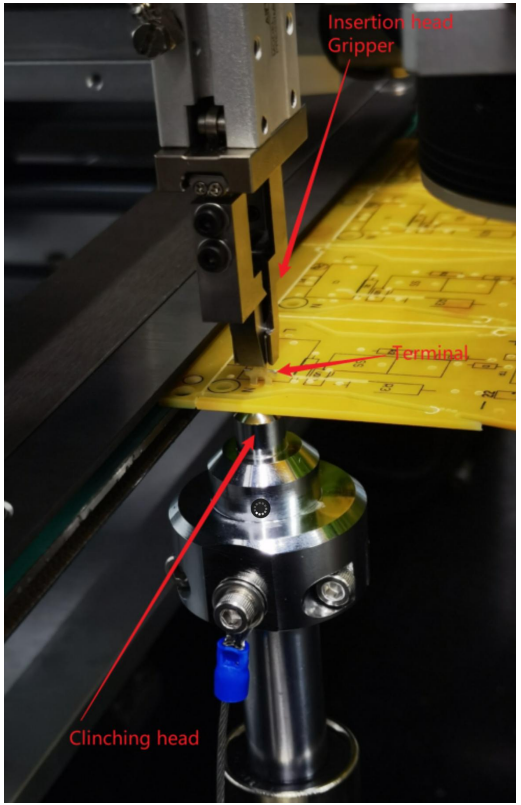




S7020T Terminal Insertion Machine

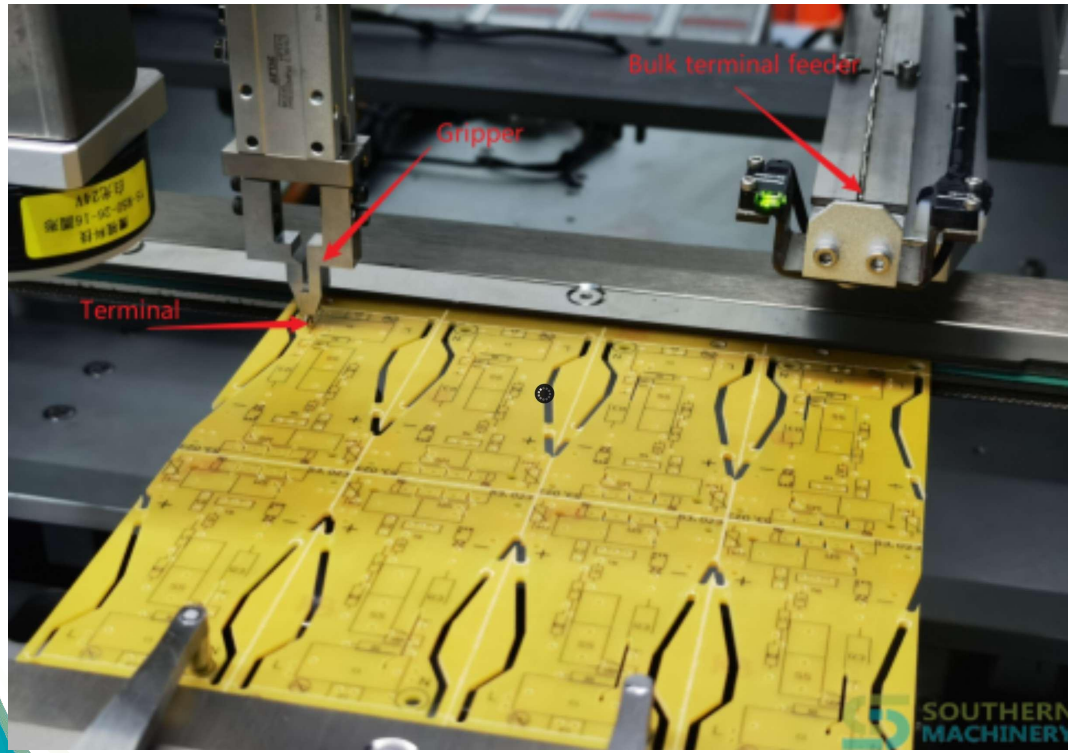
Insertion processing

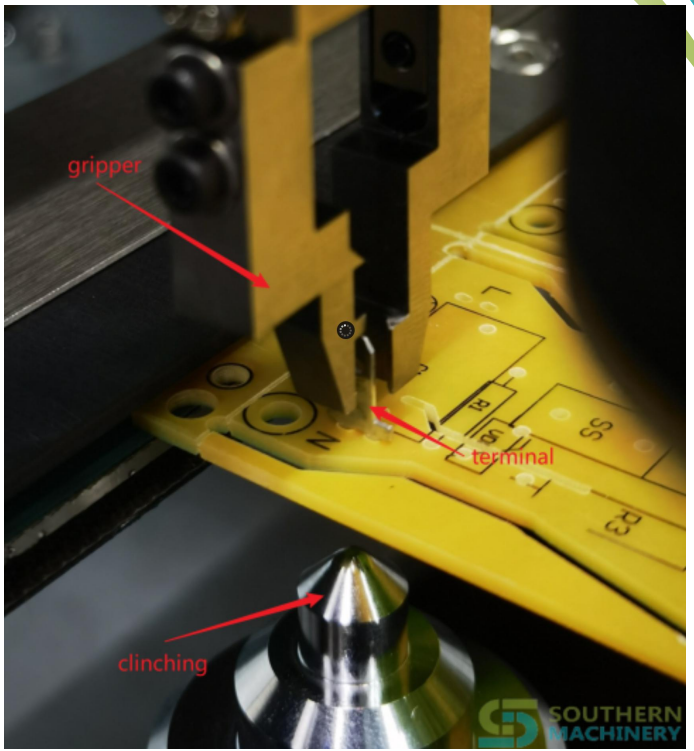




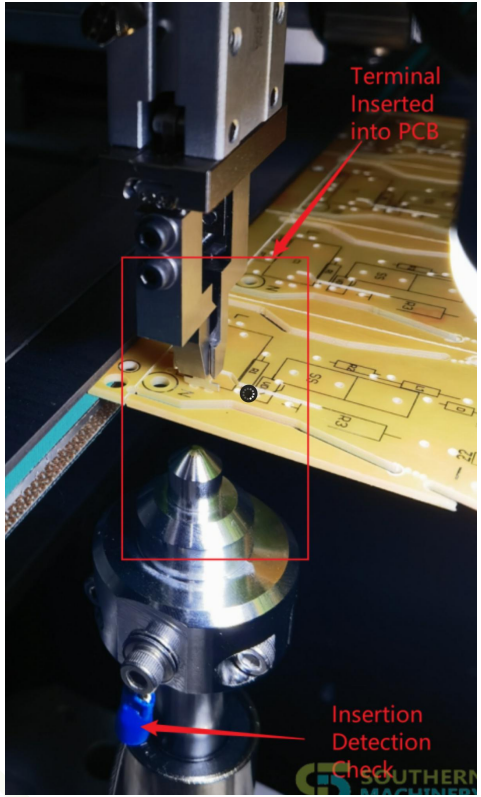
S7020T Terminal Insertion Machine

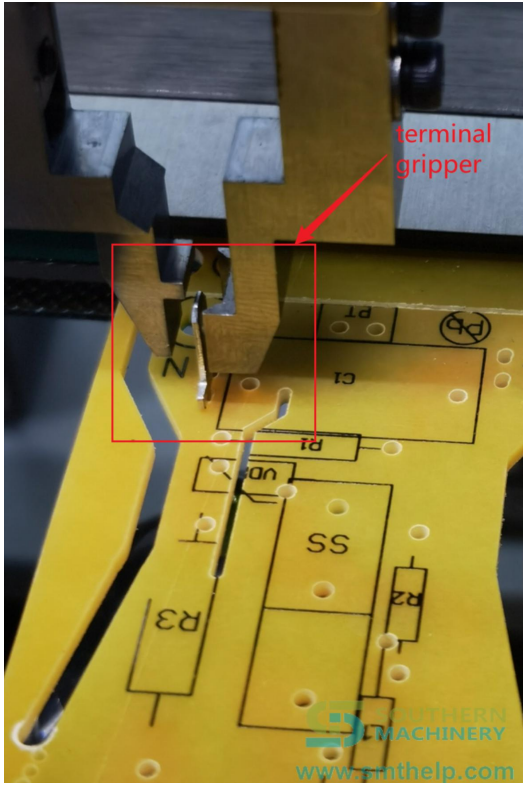
After Insertion

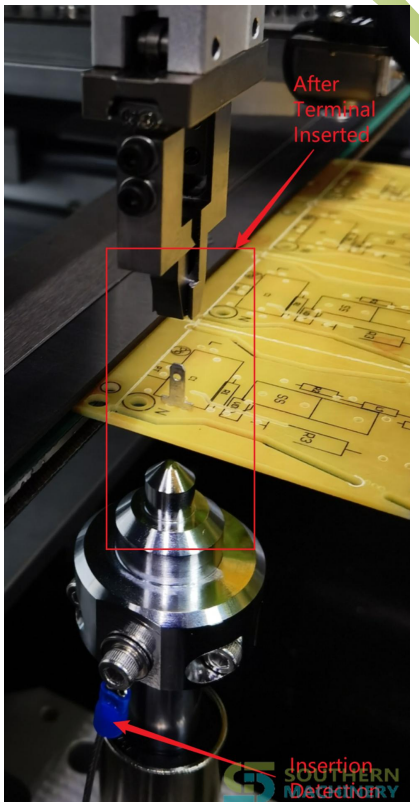




S7020T Terminal Insertion Machine







SOUTHERN MACHINERY

S7020T Terminal Insertion Machine Specification

Equipment size	1700mm*1300mm*1600mm (2 heads)
Material packaging	Terminal in bulk package or reel package
Speed	12000 CPH
PCB size	380mm*280mmm (enlarged size can be customized)
Number of insertion heads	2 insertion heads
terminal thickness	≥0.5mm ≤1.2mm
Vertical error	≤0.8°
PCB requirements	The insertion hole is 0.5±0.1mm larger than the component lead
Insertion angle	360°(increment 1°)
Body distance	The distance between the components ≥ 2mm
Clinch	Inward clinching/Outward clinching
Feeding system	Vibration Bowl Feeder/Reel feeder
Motion accuracy	0.001mm/pulse
Programming function	Online visual programming, visual correction, EXCEL
Data import	USB interface import, manual entry
Power	Single 220V/AC, 50/60HZ, 2KVA
Equipment weight	1200KG

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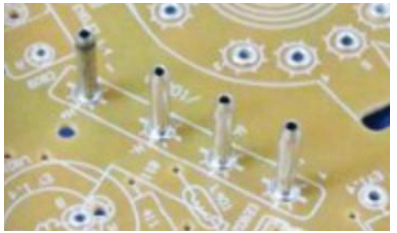
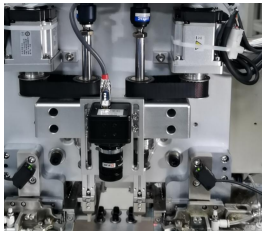
S7020P Pin Insertion Machine

S7020P

- Applicable components: **Pin**



- 2 insertion heads and 2 reel feeder



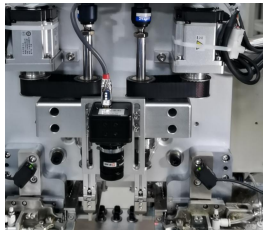
- Speed:**12000CPH**

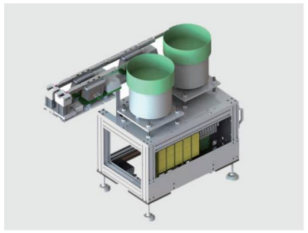
S702E Eyelet Insertion Machine

S7020E

- Applicable components: **Eyelet**

- 2 insertion heads and 2 bowl feeder



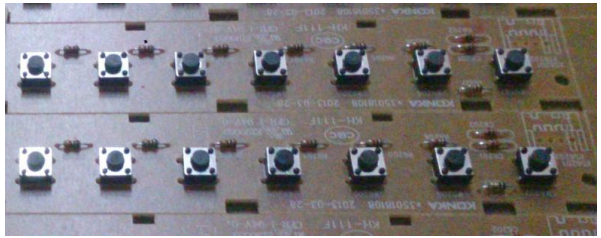


- Speed:**12000CPH**

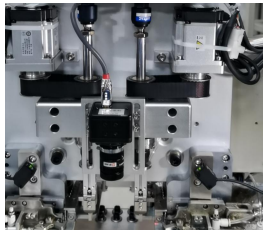
S7020S Tact Switch Insertion machine

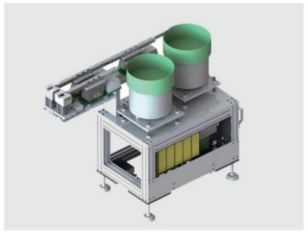
S7020S

- Applicable components: **Tact Swich**



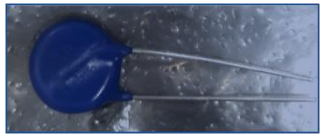
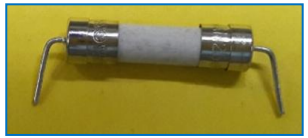
- 2 insertion heads and 2 bowl feeder

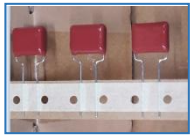




- Speed:**12000CPH**

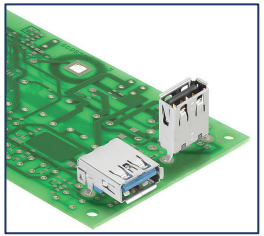
S7020F Odd Form Insertion Machine

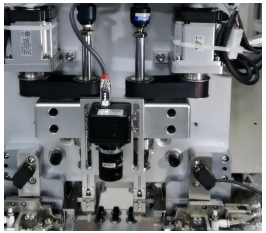


S7020F

- Applicable components: **Odd form components**



- 2 insertion heads and 2 reel feeder



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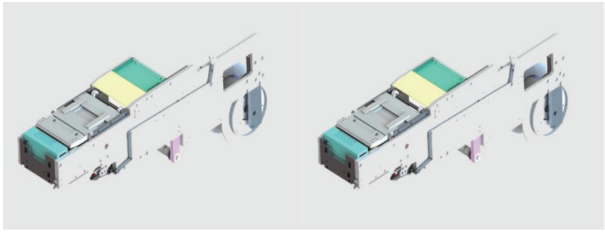
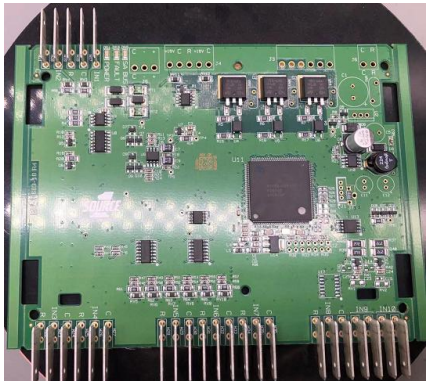


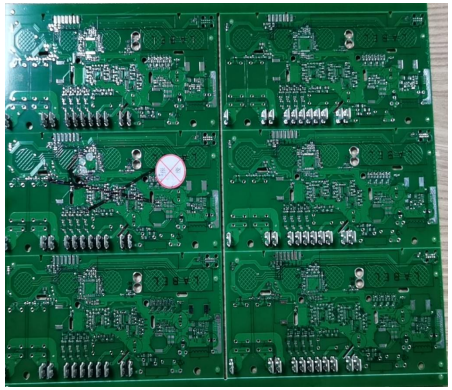
- Speed:**5000CPH**

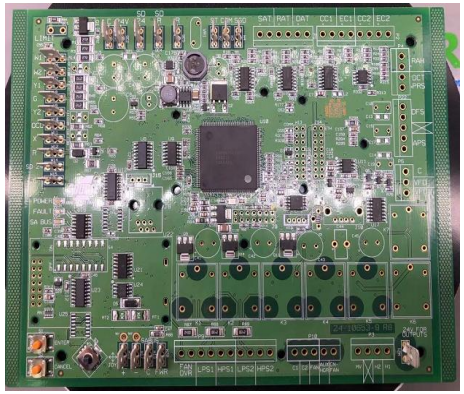
S7020 Series Insertion Machine

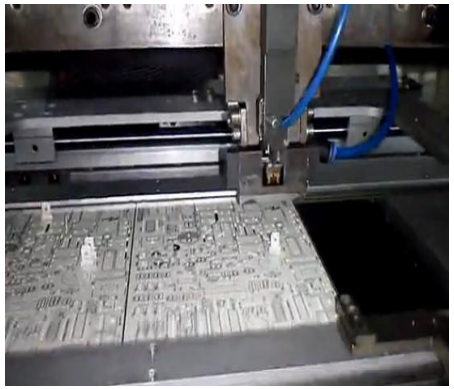
Application industry

Home appliance
Car
Power
Digital watches
Electronic components, etc









SOUTHERN MACHINERY

Working Video

- THT Odd form insertion machine working for Smart EMS factory PCB assembly：
  https://youtu.be/aOihpenVfNQ
- S7000T TE reel terminal insertion machine for Smart EMS factory PCB assembly:
  https://youtu.be/mi1Pf6ZfLWg
- Automatically insert bulk FASTON Terminals's solution:
  https://youtu.be/XLjedTqB__k
- 2 heads Bulk or Reel PIN Eyelet Terminal Insertion Machine for Smart EMS factory PCB assembly
  https://youtu.be/njBt_XLwvLI
- High-speed automatic bulk/tape terminal insertion solution:
  https://youtu.be/OD8e-Wx5JcA

Machine 3D drawing:
http://file.autoinsertion.com/SMT%20machine%203D%20Drawing%20in%20Html/S-7020T_Terminal_insertion.html

SOUTHERN MACHINERY

Working Video - Bulk Terminal Insertion

SOUTHERN MACHINERY

Working Video - Bulk Terminal Insertion

SOUTHERN MACHINERY

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Google Auto+insertion, to get more informations

Looking forward to your email info@smthelp.com