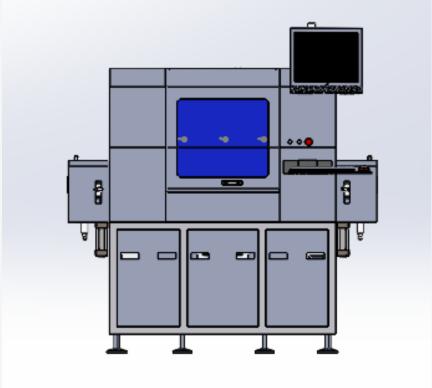


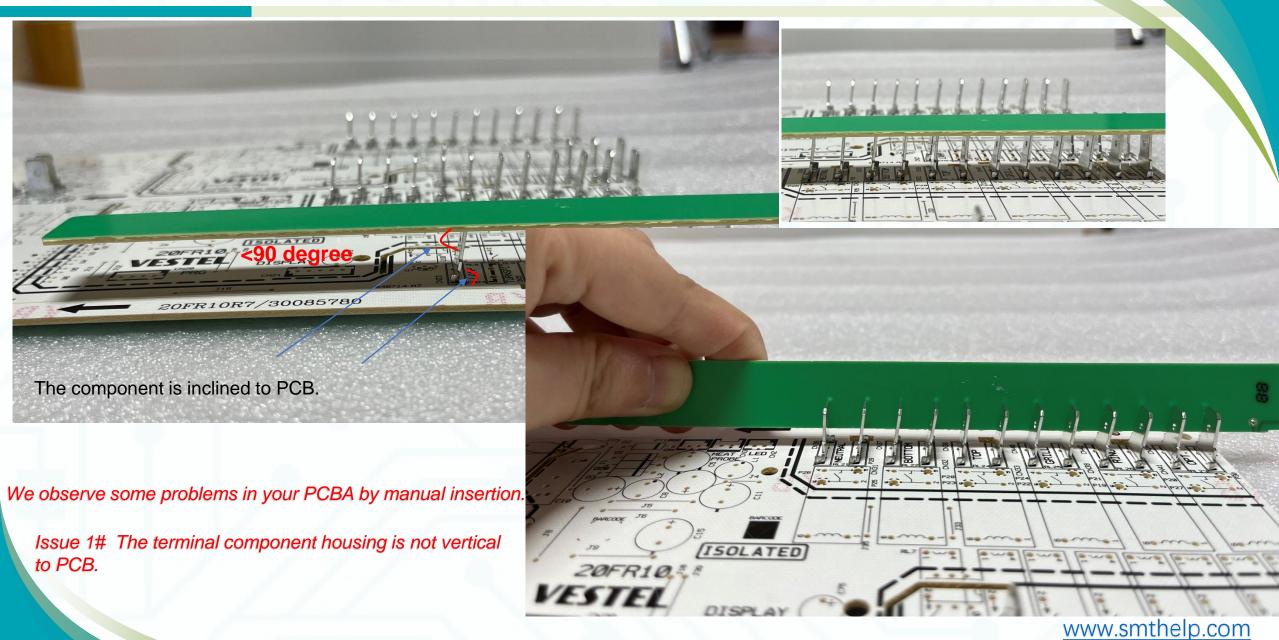
S-7000T Terminal Insertion Machine with 2 sets Vibration Bowl Feeder





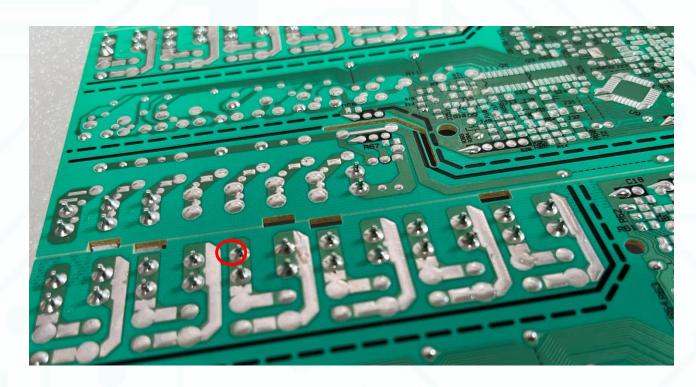


Issues caused by Manual Insertion

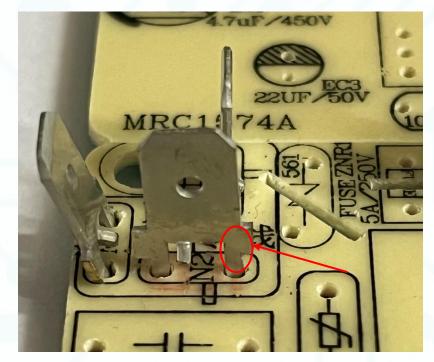




Issues caused by Manual Insertion



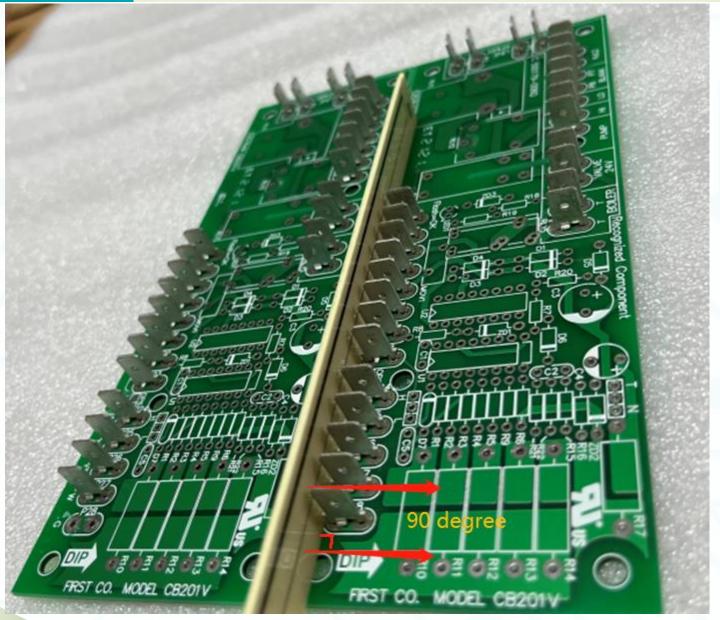
Issue 2# There is no clinching with component lead after it is inserted. Thus, on one hand, components may drop off the PCB.



On the other hand, bad joint appears because there may be a large gap due to wave soldering without clinching.

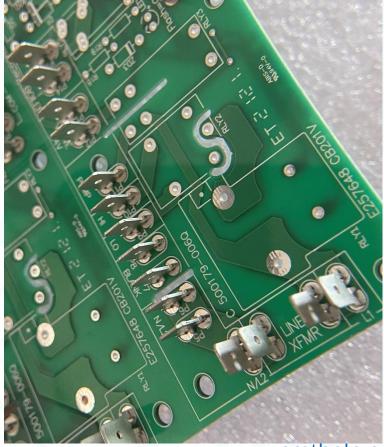


Advantages of Machine Insertion



These terminal components were inserted by S7000T insertion machine.

Advantage 1#. Terminals are vertical to PCB

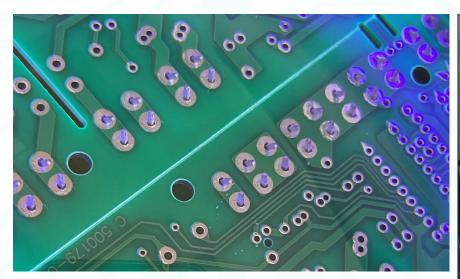


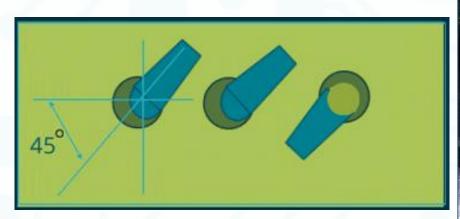
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Advantages of Machine Insertion

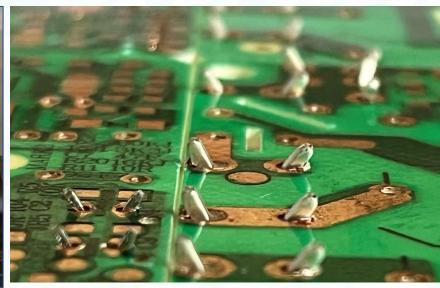
Advantage 2# Clinching unit prevents component from dropping off.

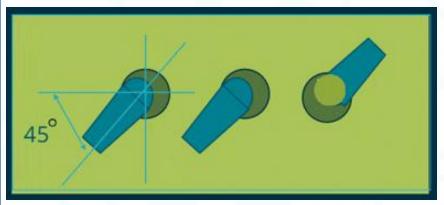










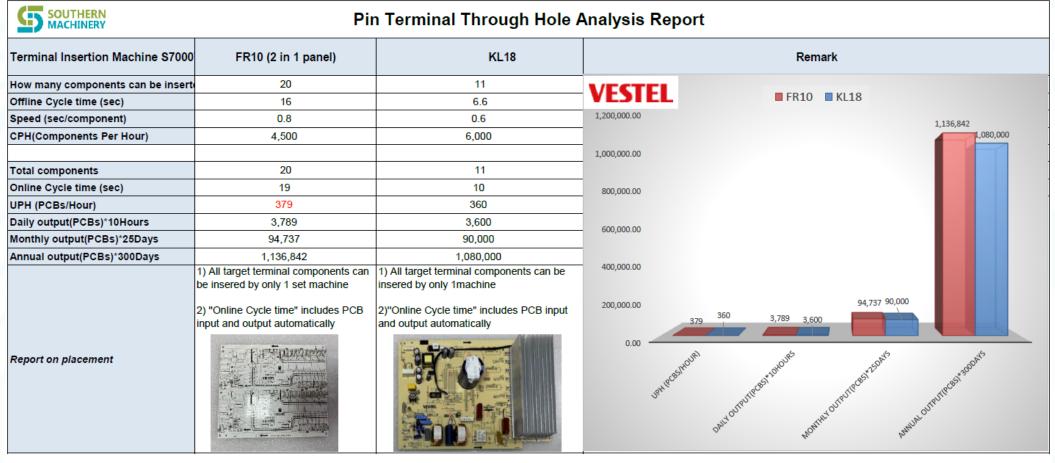


N-type Outward Clinch

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Pin Terminal Through Hole Analysis



Component Code	Quantities on FR10	Quantities on KL18	Comments from Southern Machinery
69663	18	11	
99250	2	none	
80615	none	none	Yes. It can be inserted by our machine.
102944	none	none	It is a non-standard component and we can retrofit some spare parts in the machine to
			make it work with this terminal component.

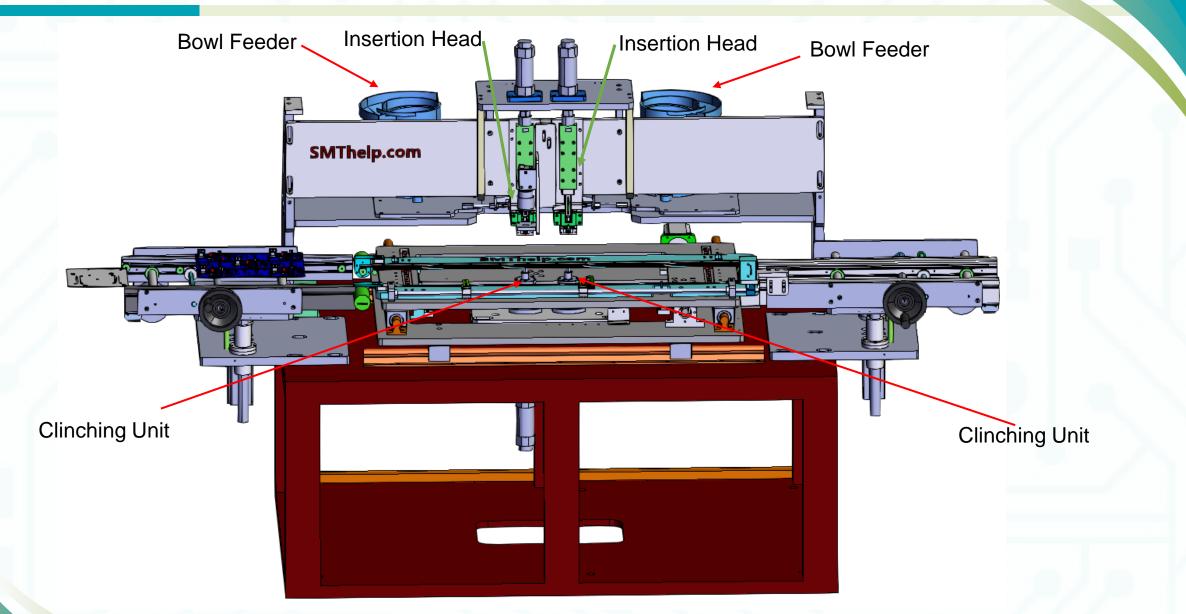


Machine specifications and configuration

Equipment size	1700mm*1300mm*1600mm (2 heads)	
Material packaging	Terminal in bulk package	
Equipment weight	1200KG	
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 ± 0.1 mm larger than the component foot	
Insertion angle	360°(increment 1°)	
Body distance	The distance between the components ≥ 2mm	
Clinch	Inward clinching/Outward clinching/"N"	
Humidity	30%-70%	
Display system	17-inch color LCD monitor	
Feeding system	Vibration Bowl Feeder	
Motion accuracy	0.001mm/pulse	
Motion system	Panasonic controller, motor	
Programming function	Online visual programming, visual correction, EXCEL	
Data import	USB interface import, manual entry	
Communication interface	RS-232C (can be connected to MES system)	
Power	Single 220V/AC, 50/60HZ, 2KVA	

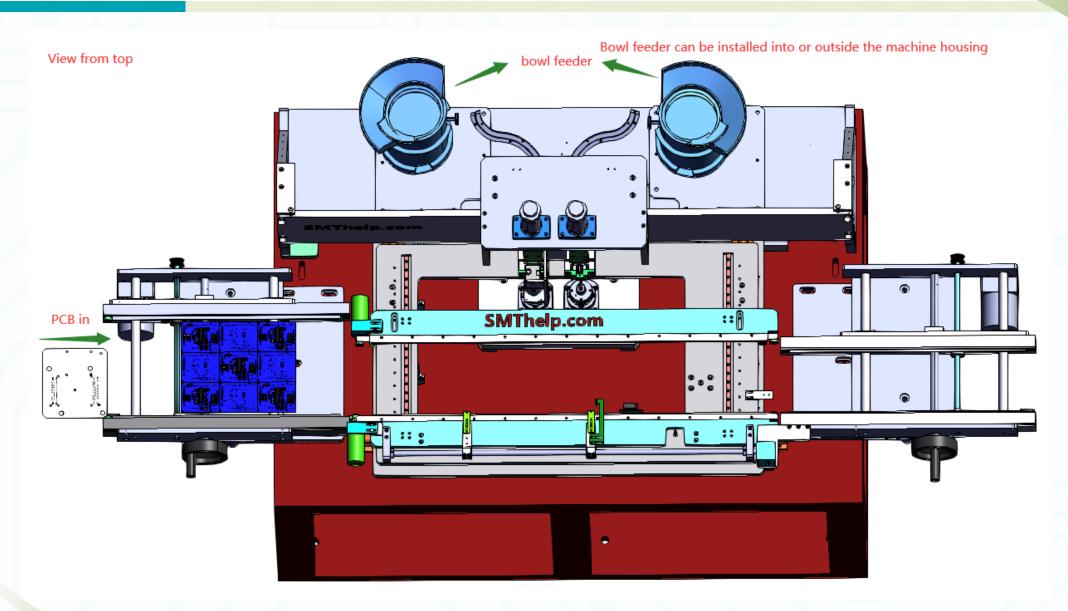


3D program on machine structure from all views



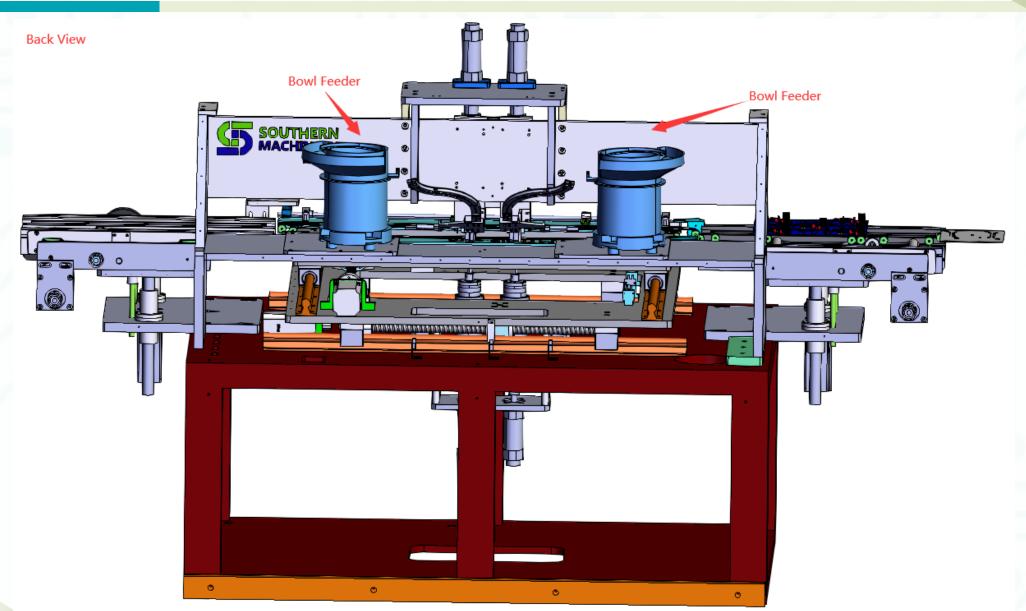


3D program on machine structure from all views

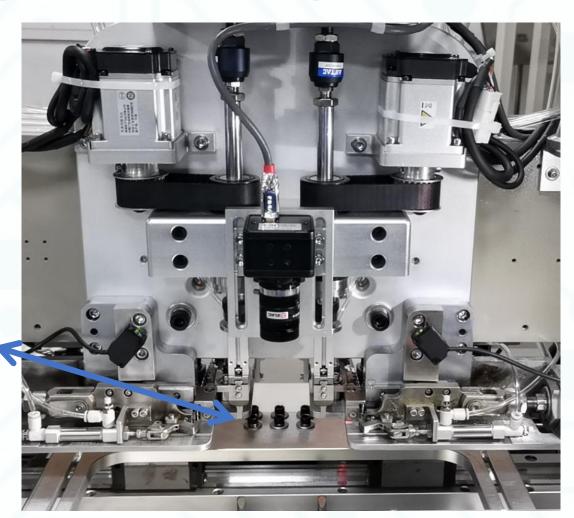




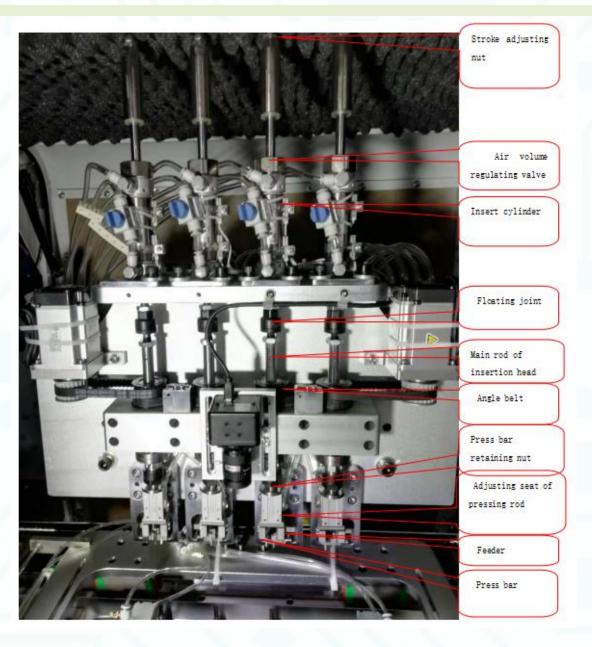
3D program on machine structure from all views



Design insertion head according to the terminal thickness



Different terminal thickness(0.80mm /0.50mm) designs different grippers



(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

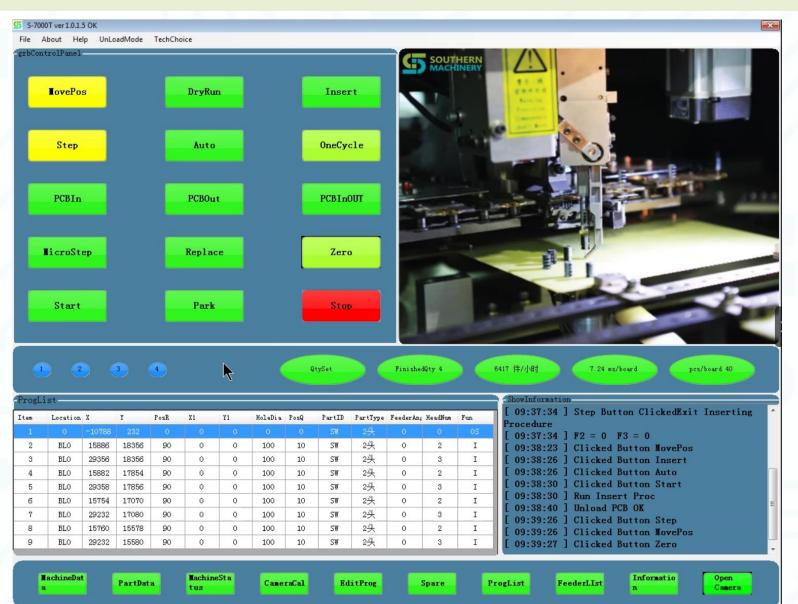




SOUTHERN MACHINERY Software programming system

The main operation interface is divided into the following six areas from top to bottom, left and right.

- Operation panel area
- Image and video area
- Production data area
- Program display area
- Status prompt area
- Set up ribbon





Application industry

Home appliance industry
The car industry
The power industry
Other electronics industry: digital
watches, electronic components, etc











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