

ODD-FORM COMPONENT

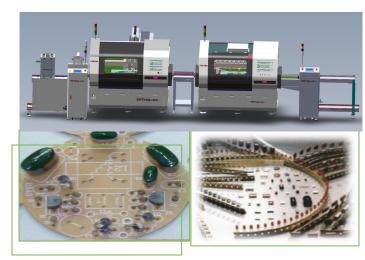
INSERTION MACHINE





PCBA MANUFACTURING PROCESSES

Component assembly processes





Standard Auto Insertion



SMT

Surface Mount Technology









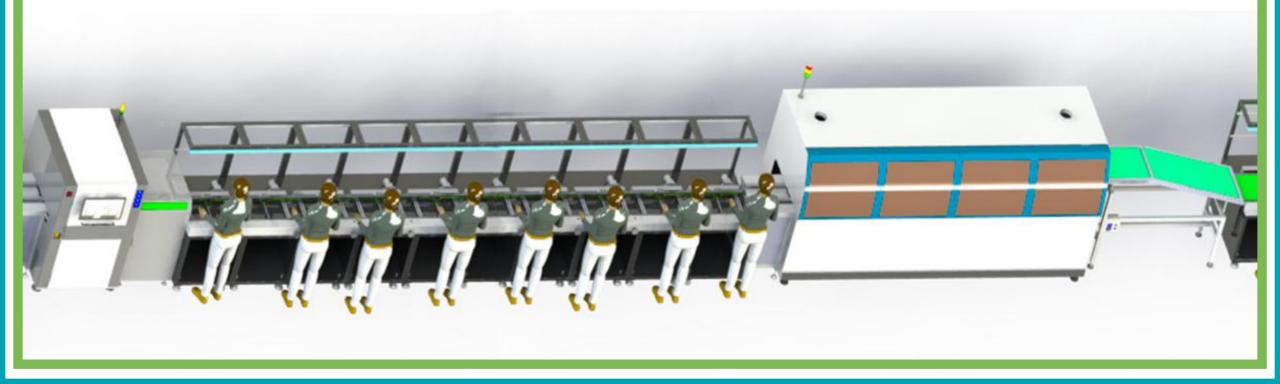
MI

Manual Insertion



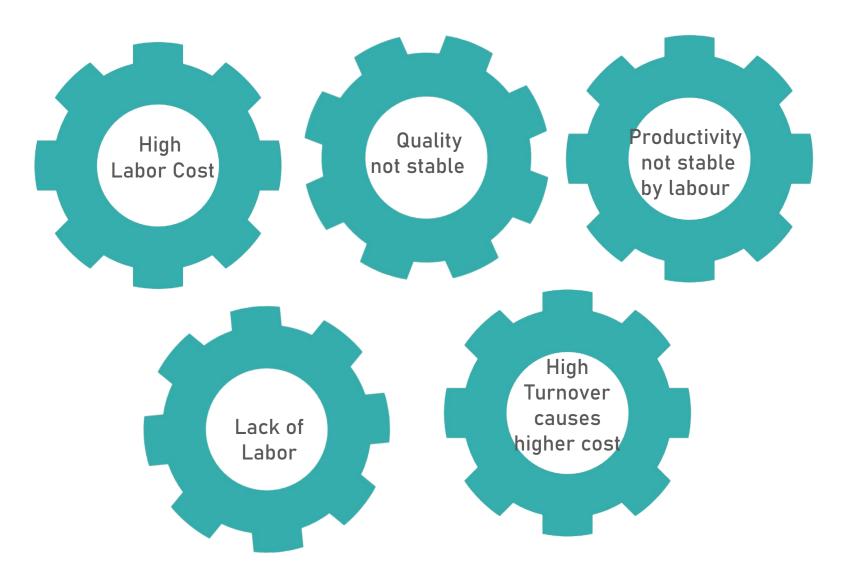
PCBA MANUFACTURING PROCESSES

Operator for manual processes





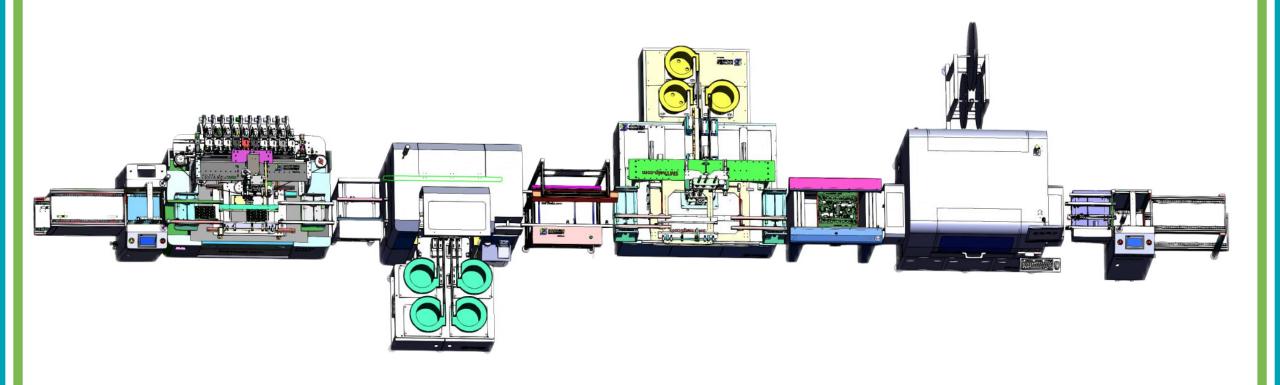
THE PROBLEMS WITH MANUAL INSE





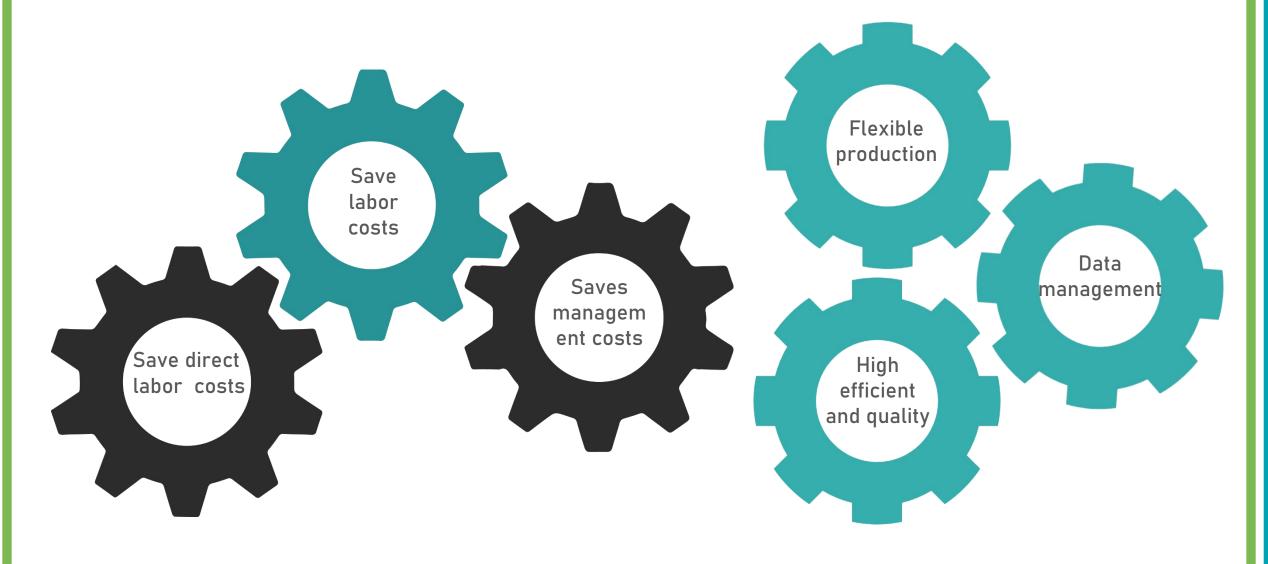
PCBA MANUFACTURING PROCESSES

Automatic Insertion Machines





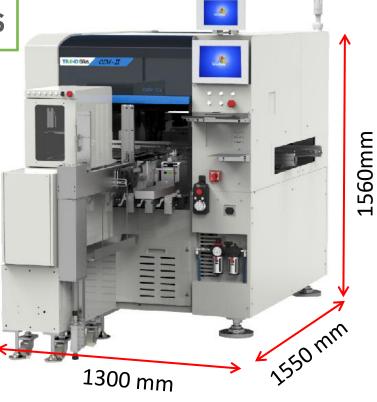
ADVANTAGES FOR AUTO INSERTION





MACHINE APPEREANCE

OIM Series



Multi Mounter

TRAIND ENILS - 1550 mm 850 mm

EIM Series

1560mm

Modular Mounter



SPECIFICA

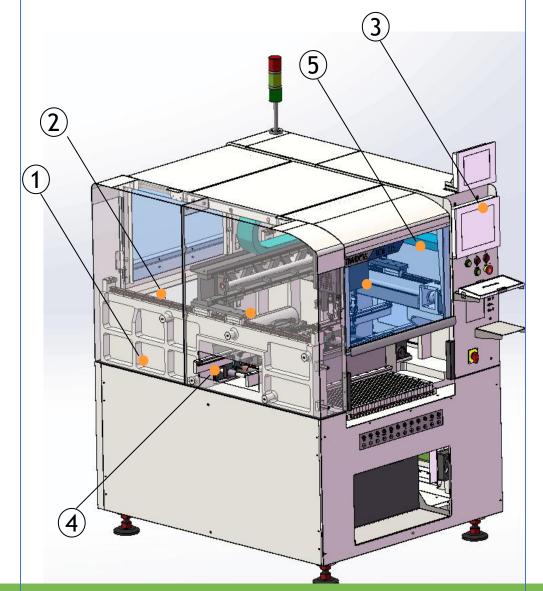
			TION			
	Specification			Mode1		
Specification			OIM-3S	OIM-2FS	EIM-2	
o. of Insertion Heads			6	4	2	
CB Size (LxW)			50x50mm to 300x350mm	50x50mm to 500x500mm	50x50mm to 300x550mm	
errier Size (LxW)			300x350mm	500x550mm	450x550mm	
B thickness			0.6~2.0mm	0.6~2.0mm	0.6 ² .0mm	
ax. PCB weight			2Ks	5Kg	2Kg	
x. Component height			20mm	30mm	25mm	
x. Component Width			28mm	50mm	50mm	
eed / Component		*1	0. 6S-3. 0s	0.7s ~ 3.0s	1s ~ 3.0s	
lacement Accuracy			3 ∘, ± 0. 050mm	3 □ , ± 0.050mm	3 □ , ± 0. 050mm	
Vision System	Mark CCD (Top)		1	1	1	
	Component CCD (Bottom)		3	4	2	
apporting Mechanism			Servo	Servo	Servo	
nveyor Type			Chain	Chain	Belt	
nveyor PCB Mounting			Edge Clamping	Edge Clamping	Edge Clamping	
nveyor Section			3	3	i	
nveyor Adjusting			Auto	Auto	Auto	
nveyor Height		*2	900 ± 20mm	750 ± 20mm	750±20mm	
Max. Stations *3	Tape Feeder (SMT)		12	6	2	
	Tape Feeder (AI)		12	6	2	
	Tube Feeder		12	6	2	
	Bowl Feeder		6	2	2	
	Tray Feeder		1	1	i	
peration system			Windows	Windows	Windows	
Monitor Display (Operation Side)			2	2	i	
o. of Door			2 (Double Side)	1 (Single Side)	1 (Single Side)	
ze(Lwwh)			1300x1550x1560mm	1300x1550x1560mm	850x1550x1560mm	
ight			1730Kg	1650Kg	800Kg	
uto Nozzle Changer Unit		*4	Option			
ead Clinching Unit *5		*5	Option			
rogramming		Vision Teaching System				
Power			380V 20A 50/60HZ		220V 20A 50/60HZ	
pparent power			4. SKVA		3. 5KVA	
r Supply				4.0~8Kg/m2		
B direction			L to R (R to L)			
nsertion direction				O-360 Degree		
oplicable Component			Connector, switch, socket transformer coils, ports, capacitors, Resistors, etc			
ИЕМА.		1	Standard Configuration			
ES Connection		*6	Standard Configuration			
			Standard Configuration			

- *1 depands on different components
- *2 Conveyor height of 750 and 900 are available
- *3 No. of feeder depands on the combination
- *4 Conditional
- *5 Lead Clinching Unit will replace the PCB Supporting Mechanism
- *6 Only provided the original data format, the rest should be customer made



- ✓ Modular Design: Flexibility, small foot print.
- ✓ Precise design for high speed and high accuracy.
- ✓ Independent Feeder system for universality and installation.
- ✓ Advance pickup head: Vacuum Nozzle and Air Gripper for high stability.

MAIN FEATURES



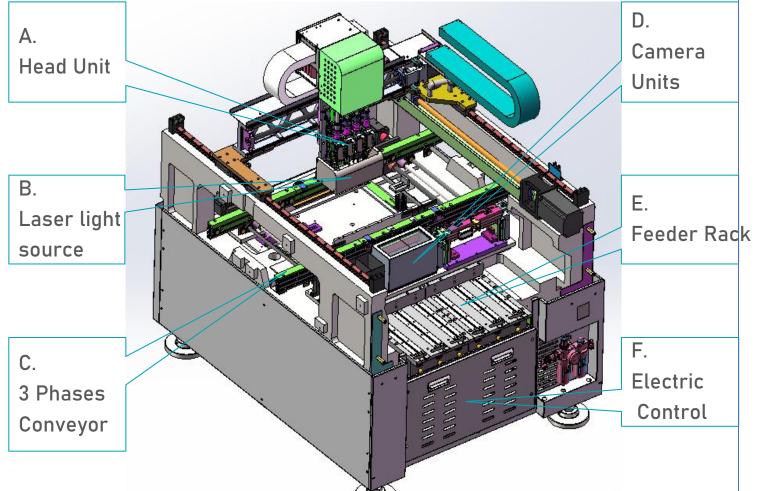
REMARKS:

- One-piece cast frame body for Stability and Accuracy.
- (2) Imported major parts eg. ball screw, sliding block, motor, servo, etc. and ensure the accuracy in +/-0.03mm.
- ③ OS under Windows platform with multi language, Touch screen panel control for more user friendly
- 4 3 phases conveyor system for faster transportation of PCB, to increase the productivity.
- 5 Machine with advance safety assurance like door sensor, safety light curtain and



HARDW

ARE

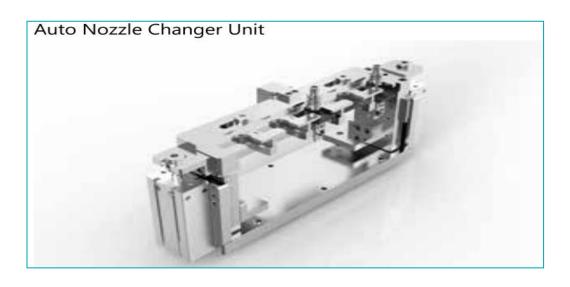


REMARKS:

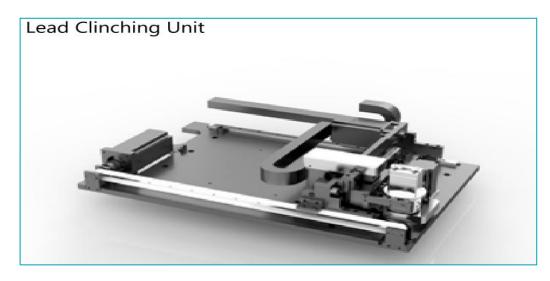
- A. Head Unit be divided into three kinds, 2 heads/4 heads/6heads.
- B. The Laser light ensure the high light source for camera unit.
- C. 3 phases conveyor to ensure the high speed and stability for PCB transportation.
- D. Camera Units : All models consist of 1 top camera, and 2 to 4 bottom cameras depends.
- E. Feeder Rack for fast and easy installation of all kind of feeders.
- F. All Electric devices and control units are inside the basement which easy for maintenance.



SOUTHERN SPECIAL HARDWARE UNIT



Auto Nozzle Changer Unit: Programmable to automatically change the pickup head nozzle.



Lead clinching Unit: realizes the lead bending after insertion.



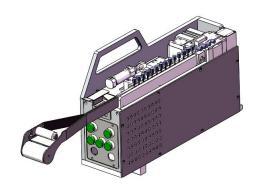








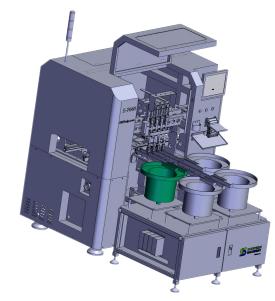
FULL SERIES OF FEEDER UNITS

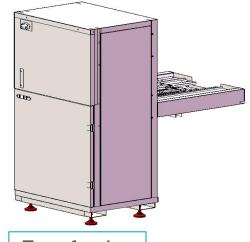


Tape feeder - Radial Type



Bowl feeder

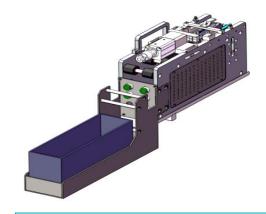




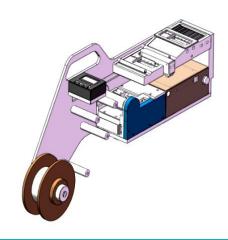




Tube feeder



Tape feeder - Axial Type



Label (Roll Type) feeder



VIBRATION BOWL FEEDER Fit

Connector and Terminal







Metal plug-in



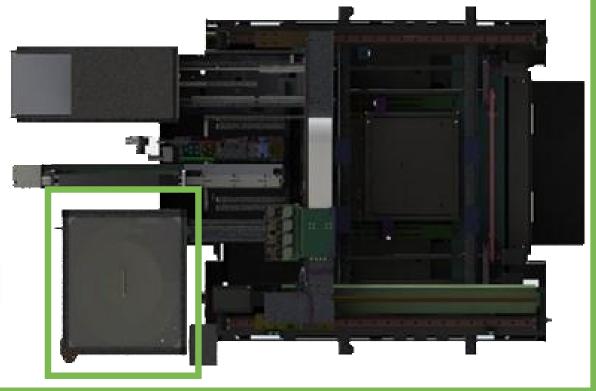








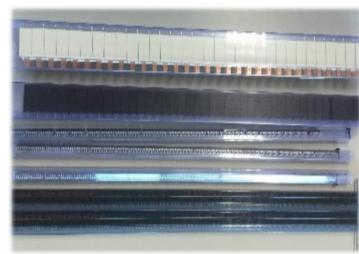
Fit for most bulk packing materials, can identify polarity, lead preform, etc.





Tube Feeder For Small-Size Material





TUBE FEEDER

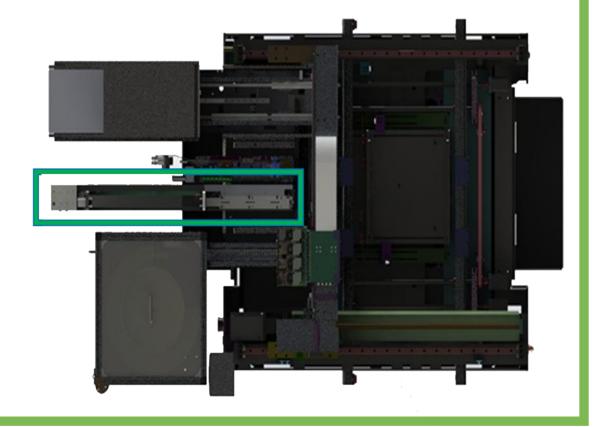


Fit for most

IC,Relay,Inductor,

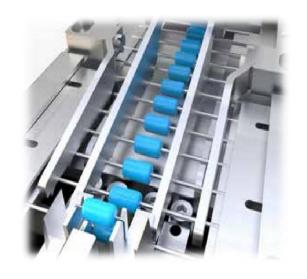
transformer with

multi tube operation.





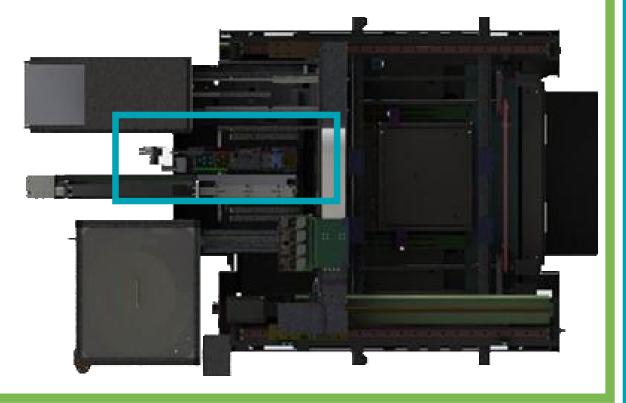
TAPE FEEDER







Axial Type and Radial type,
With cut and preform
function.





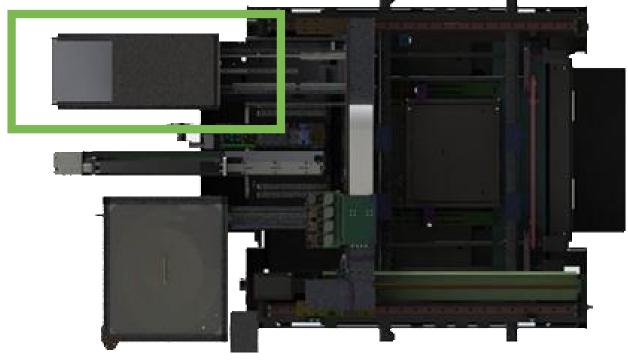
TRAY FEEDER







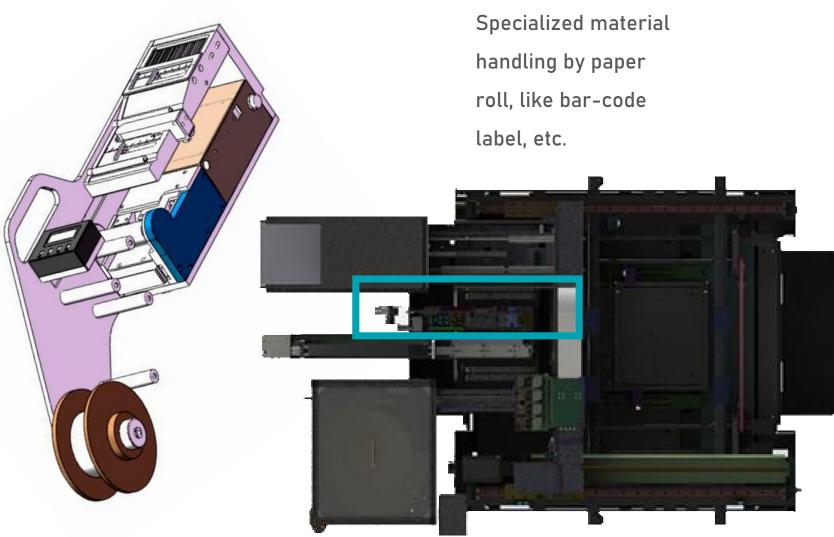
Specialized material handling by tray form packing, like IC, transformer, choke coil, large capacitor, connector, etc.





LABEL FEEDER







SOUTHERN VACCUM NOZZLES AND AIR GRIPPERS MACHINERY

All Nozzles and Grippers are designed with a fast change mechanism.

Vacuum Nozzle

Air Gripper



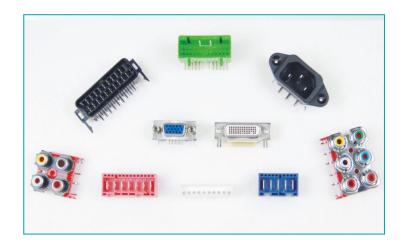


Can handle over 97% of odd-form component on the n

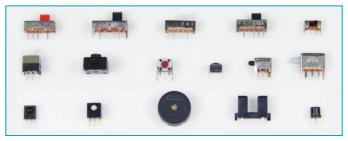
Capacito



Terminal



Switch & Buzzer



Transformer & Choke Coil



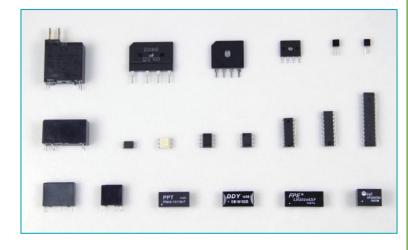
Plug and Socket



Connector and Pin header

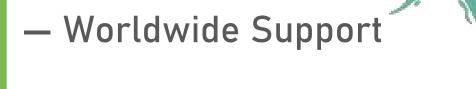


IC and Transistor





BEST AFTER-SALES SERVICE



- Free Installation/ Training
- 1 day lead-time (spare parts)
- 1 Month customize solution



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See more machine working video on YouTube

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