



We design and manufacture automatic machine for the PCBA/
SMT and Thru-hole industries in Shenzhen
China. We help companies looking to low cost
equipment with smart, ROI-driven assembly equipment solutions.





**SOUTHERN
MACHINERY**

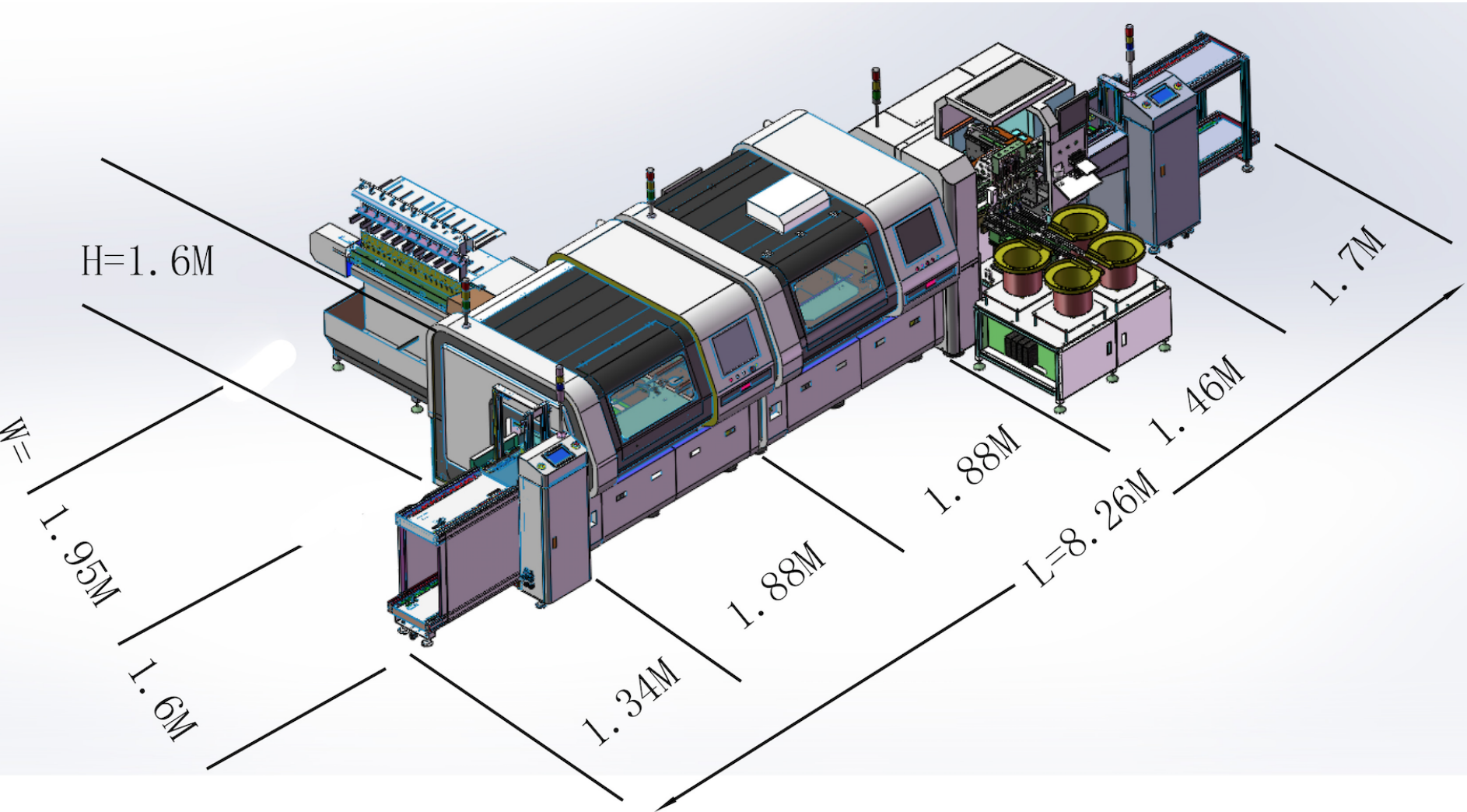
S3010 Radial Insertion Machine





**SOUTHERN
MACHINERY**

S3010 Radial Insertion Machine





Operation Main

S-3000

Program Create/Modify I/O Diagnosis Debug Manufacturers Info Help Back-stage Info Chinese/English Exit

Operate

Start **Stop**

Reset

AlarmReset **Em-Stop**

Mode Of Production
 Circle Full-Step One-Step

Mode Of Plug-in
 Normal Sequence Inversions

Check Of Plug-in
 Check Uncheck

Check Of Stations
 Check Uncheck

Check Mark-point
 Check Uncheck

State of Chain
 Run Not Run

Work desk Speed (Manual)

End-of-feed

Work-desk-lamp

Producing Speed
 Slow speed Medium speed High Speed

90

No.	X	Y	Angle	Station	Footprint	element's Name	Direct
2	131.561	35.847	0	1			
3	111.585	35.916	0	1			
4	91.591	35.977	0	1			
5	71.592	36.042	0	1			
6	51.584	36.092	0	1			
7	31.587	36.161	0	1			
8	11.576	36.203	0	1			
9	-8.422	36.276	0	1			
10	-28.431	36.329	0	1			
11	-48.425	36.384	0	1			
12	-68.418	36.431	0	1			
13	-88.431	36.478	0	1			
14	-108.425	36.518	0	1			
15	-128.451	36.586	0	1			
16	-148.456	36.642	0	1			
17	-168.466	36.700	0	1			
18	-168.515	16.683	0	1			
19	-148.534	16.627	0	1			
20	-128.531	16.567	0	1			
21	-108.535	16.512	0	1			
22	-88.534	16.440	0	1			
23	-68.507	16.396	0	1			
24	-48.514	16.347	0	1			

Information Of The Machine State

Information Of Production

Program Name: D:\程序\1.xls Counter of Default: 1000

PPM: Counter of complete:

Real speed: Average speed:

Shear horn Left Right

S-3000 2.40.2.54 version



Program Edit

S-3000

Program Create/Modify

No.	X	Y	Angle	Station	Foc
1	134.103	35.845	0	1	
2	131.561	35.847	0	1	
3	111.585	35.916	0	1	
4	91.591	35.977	0	1	
5	71.592	36.042	0	1	
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13	-88.431	36.478	0	1	
14	-108.425	36.518	0	1	
15	-128.451	36.586	0	1	
16	-148.456	36.642	0	1	
17	-168.466	36.700	0	1	

Matching Parameters

Camera And Plug-shaft Camera And Table

Min radius: 5 Pixel

Max radius: 15 Pixel Binaryzation

Value of binaryzation: 31

Match angle: 0 Degree

Match Width: 2.5MM

Match Roi (radius): 30 Pixel

Add coordinates manually Mark-Point Screen

Adjust Add Insert Move

Clockwise rotation Negative rotation Delete MARK

Auto-Adjust Pause Adjust Add Offset Array module

Read Data Save Data Apply

Offset of Angles:
X: 0.000
Y: 0.000
D: 0.000

Platform speed: 10.0

Platform position: X 0.000 Y 0.000

Exit

Start

Alarm

Mode Of Pro

Circle

Check Of Pl

Check

Check Mark

Check

Work desk S

Producing S

Slow sp

Modify

14:10



Servo Motor Test

Motor Test

Motor param

X Shaft

Param	Action	Status:
Distance: 10.000	Right	EL+ ●
Start-Speed: 200.000	Left	EL- ●
Max-Speed: 600.000	Reset	ORG ●
Position: 0.000		

Y Shaft

Param	Action	Status:
Distance: 10.000	Front	EL+ ●
Start-Speed: 400.000	Back	EL- ●
Max-Speed: 600.000	Reset	ORG ●
Position: 0.000		

D1 Shaft

Param	Action	Status:
Distance: 5.000	Right	EL+ ●
Start-Speed: 500.000	Left	EL- ●
Max-Speed: 700.000	Reset	ORG ●
Position: 0.000		

Emergency stop

D2 Shaft

Param	Action	Status:
Distance: 5.000	Right	EL+ ●
Start-Speed: 500.000	Left	EL- ●
Max-Speed: 700.000	Reset	ORG ●
Position: 0.000		

H Shaft

Param	Action	Status:
Distance: 0.100	Up	EL+ ●
Start-Speed: 80.000	Down	EL- ●
Max-Speed: 400.000	Reset	ORG ●
Position: 0.000		

P Shaft

Param	Action	Status:
Distance: 0.100	Up	EL+ ●
Start-Speed: 500.000	Down	EL- ●
Max-Speed: 1000.000	Reset	ORG ●
Position: 0.000		

D1 D2 Turn(90)

Right	Stop
Left	Restore the default values

L Shaft

Param	Action	Status:
Distance: 12.500	Advance	EL+ ●
Start-Speed: 90.000	Advance	EL- ●
Max-Speed: 230.000	Reset	ORG ●
Position: 0.000		

XY Stop-Position

X: 0.000
Y: 0.000
Set
Test

XY turn-Position

X: 0.000
Y: 0.000
Set
Test

Height Of H(1)

H1: 0.000
Set
Test

Height Of H(2)

H2: 0.000
Set
Test

Height Of P

P: 0.000
Set
Test

Offset D1D2P

D1: 0.000
D2: 0.000
P: 0.000
Set

Note:
distance: mm
speed: mm/s
time : s

Apply

Exit



IO Diagnostic

S-300 IO & TurnTable Test

Program: Other IO | DistributionHead DI | DistributionHead DO | TurnTable Test

DI	DO
[IN06 -01] Forflex ●	<input type="checkbox"/> OUT01 -01] CTA ●
[IN15 -01] Forflex-Manual ●	<input type="checkbox"/> OUT26 -01] Paper-Cut ●
[IN01 -01] Left-Check ●	<input type="checkbox"/> OUT02 -01] Forflex-Seat ●
[IN02 -01] Right-Check ●	<input type="checkbox"/> OUT03 -01] Forflex ●
[IN03 -01] Forflex-Seat Down ●	<input type="checkbox"/> OUT05 -01] Clockwise rotation ●
[IN04 -01] TurnTable-Target ●	<input type="checkbox"/> OUT06 -01] Negative rotation ●
[IN05 -01] TurnTable-Origin ●	<input type="checkbox"/> OUT04 -01] Lock-Left ●
[IN10 -01] Start ●	<input type="checkbox"/> OUT07 -01] Lock-Right ●
[IN11 -01] Stop ●	<input type="checkbox"/> OUT08 -01] Camera-Light ●
[IN12 -01] Em-Stop ●	<input type="checkbox"/> OUT12 -01] Work-Desk-Light ●
[IN13 -01] CTA-Target ●	<input type="checkbox"/> OUT09 -01] Red-Light ●
[IN14 -01] CTA-Origin ●	<input checked="" type="checkbox"/> OUT10 -01] Yellow-Light ●
[IN08 -01] H-Return-Origin ●	<input type="checkbox"/> OUT11 -01] Green-Light ●
[IN32 -01] Paper-Cut ●	
[IN30 -01] Stations-Left ●	
[IN31 -01] Stations-Right ●	

Interval time: 100 ms

Model: Single action Consecutive action

OK EXIT APPLY HELP

Windows Taskbar: 开始 | IST-3000-EN | IST-3800S | S-3000 | S3000 VIC ma... | Microsoft Ex... | 13:55



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S3010 Radial Insertion Machine

IO
Diagnostic

S-3000

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D1D2 Debug

CTA On

Forflex-Seat Up

H move to height1

D1D2 turn 90 degree

Left

Right

Platform: 20.0

Exit

Notes:
The keyboard direction key can move platform XY
H can reset automatic after on power

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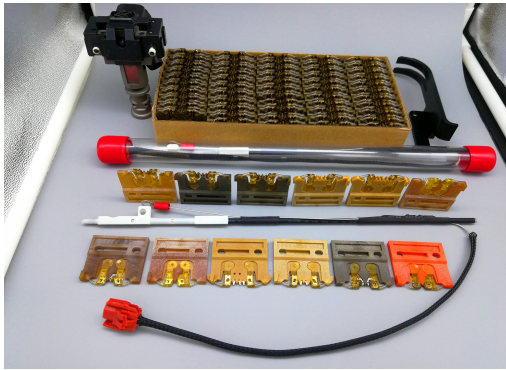


**SOUTHERN
MACHINERY**

S3010 Radial Insertion Machine



- 1) Dual span 2.5/5.0mm**
- 2) 18000 CPH, actual speed 10000 CPH**
- 3) Insert direction: 0° -360°, 1° increment**
- 4) Servo motor driven insertion head (13.0mm) and clinch base "N" type. -**
- 5) Components available: Capacitor, Transistor, LED lights, Key Switch, standard tape packed radial leads components**
- 6) Core Machine Size (LxWxH) 1900x2200x1800mm,**
- 7) Machine Weight: 1000KG -**
- 8) Power supply: 220V, AC (single phase) 50/60 HZ -**
- 9) Air pressure: 0.6MPa; 0.3M³/MIN -**
- 10) Circumstance temperature: 10° C. to 35° C. -**
- 11) PCB Size: (Min) 50 mm x 50mm, (Max) 400mm x 400mm -**
- 12) PCB thickness: 0.79-2.36MM -**
- 13) Clinch Length: 1.5-2.2MM -**
- 14) Clinch degree: 10-35 degree -**
- 15) Coordinate correction: Machine vision systems -**
- 16) Non rotary table -**
- 17) Machine vision calibration systems**
- 18) Control System: English or Chinese version interface**



Panasonic

Universal Instruments



FUJI XP142/143


yamaha YG200

HA099

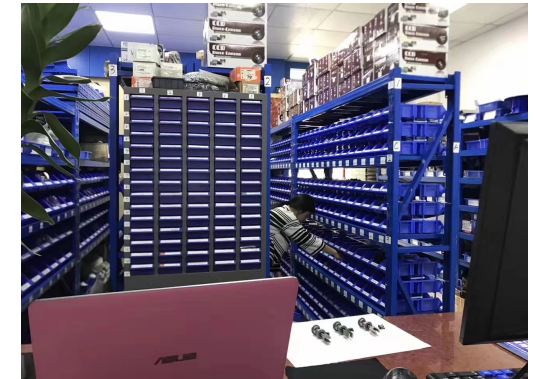
CN 110

FUJI NXT/H08M
0.7

FUJI NXT/H04
10.0



55USD 13USD 15USD 18USD 24USD 23USD



Best After-sales service

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



Welcome inquiry

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2, Find us more: <https://www.facebook.com/autoinsertion>

3, Know more our team: <https://cn.linkedin.com/in/smtsupplier>

4, Welcome to our factory in Shenzhen China

5, Google : Auto+Insertion

6, See machine working video: youtube - Auto Insertion

7, Looking forward to your email: jasonwu@smthelp.com