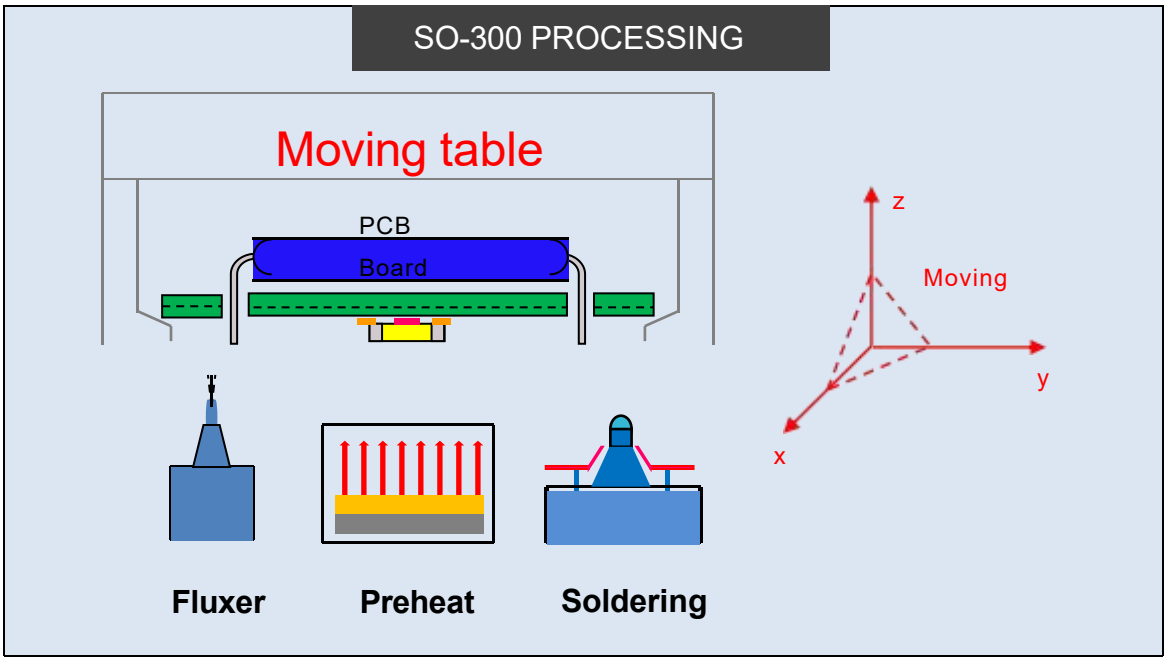
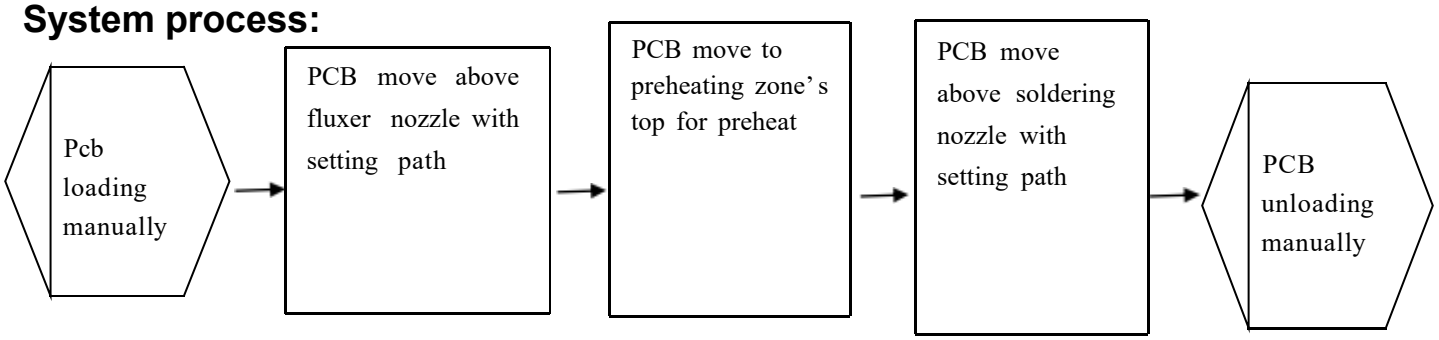
SO-300
Specification：

Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road, Baoan District, Shenzhen CN 518102
Tel:0755-83203237 E - m a i l : info@smthelp.com Website: www.SMThelp.com



System process:



Advantageous:

a All in one machine, in same XYZ motion table combine selective fluxing and soldering, compact & full function.

b PCB board movement, fluxer nozzle and solder pot fixed.

c High quality soldering.

d Can used beside production line, flexible for production line forming.

Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road, Baoan District, Shenzhen CN 518102
Tel:0755-83203237 E - m a i l : info@smthelp.com Website: www.SMThelp.com

e Full PC control. All parameters can set in PC and saved to PCB menu, like moving path, solder temperature, flux type, solder type ,n2 temperature etc, best trace-ability and easy to get repeat soldering quality.

Standard machine include:

Serial	Item	Content	Quantity
1	Controlling system	PC & monitor	1 set
		Live on monitor camera	
		motion control	
2	PCB Motion table	xyz motion table	1 set
		3 axis equipped with ball screw & linear guild rail	
		3 axis equipped with servo motor & driver	
3	Fluxing system	Imported fluxing jetting valve	1 set
		flux tank	
		flux pneumatic system	
4	preheating system	IR heater at bottom	1 set
5	Soldering pot	15kg capacity solder pot, impeller, tunnel, servor motor	1 set
		solder temperature controlling system	
		n2 inline heating system	

Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road, Baoan District, Shenzhen CN 518102
Tel:0755-83203237 E - m a i l : info@smthelp.com Website: www.SMThelp.com

		（ 4mm x 3pcs, 5mm,6mm ） Standard equipped solder nozzle	
6	Machine chassis	machine frame/cover & painting	1 set

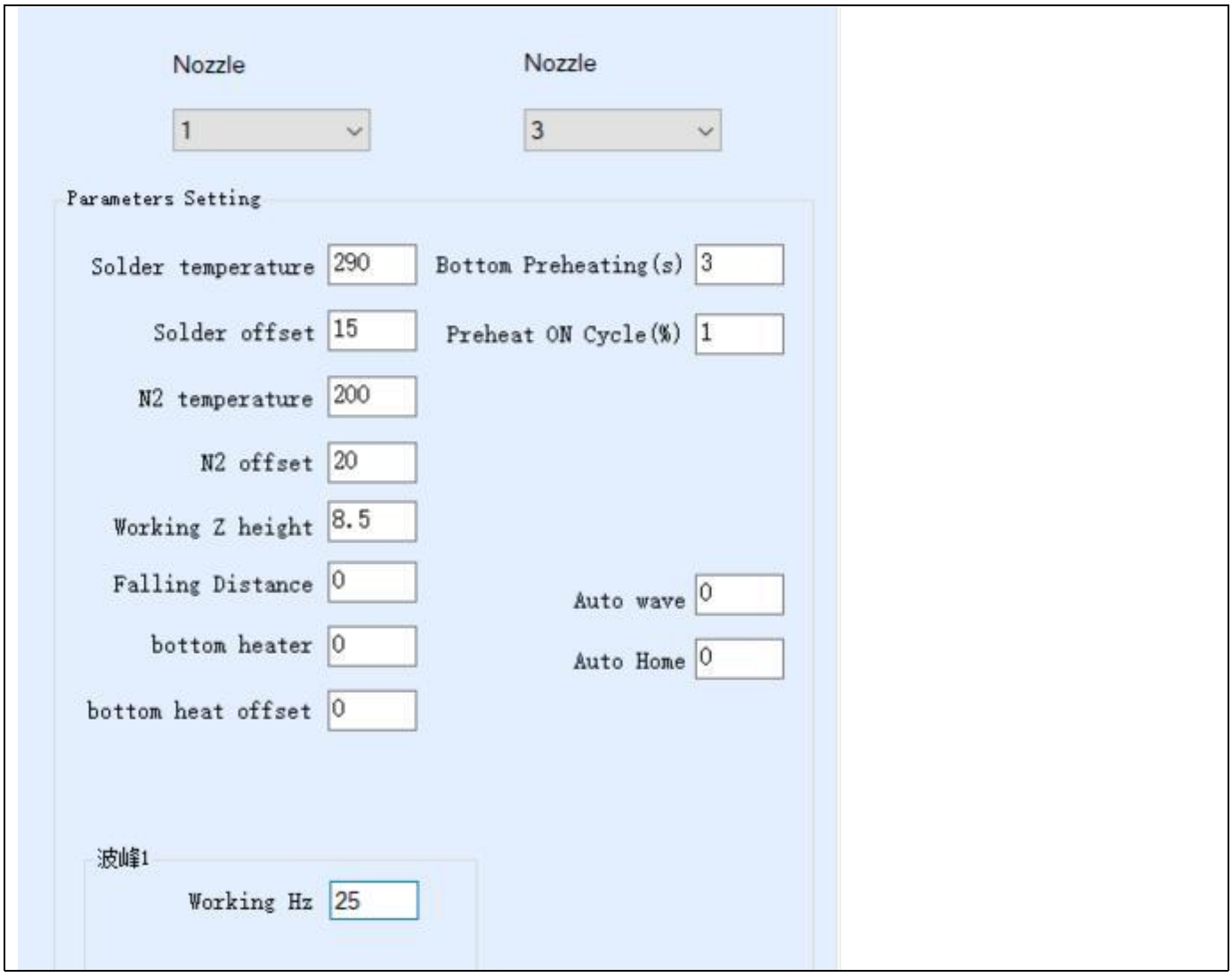
Machine explanation

Part1: Software

f All software system developed by base on Windows7 system, with good trace-ability.

Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road, Baoan District, Shenzhen CN 518102
Tel:0755-83203237 E - m a i l : info@smthelp.com Website: www.SMThelp.com

g Use scanned picture as background for path programming, moving speed, dwell time, empty move speed, Z height , wave height etc all programmed for different solder site.

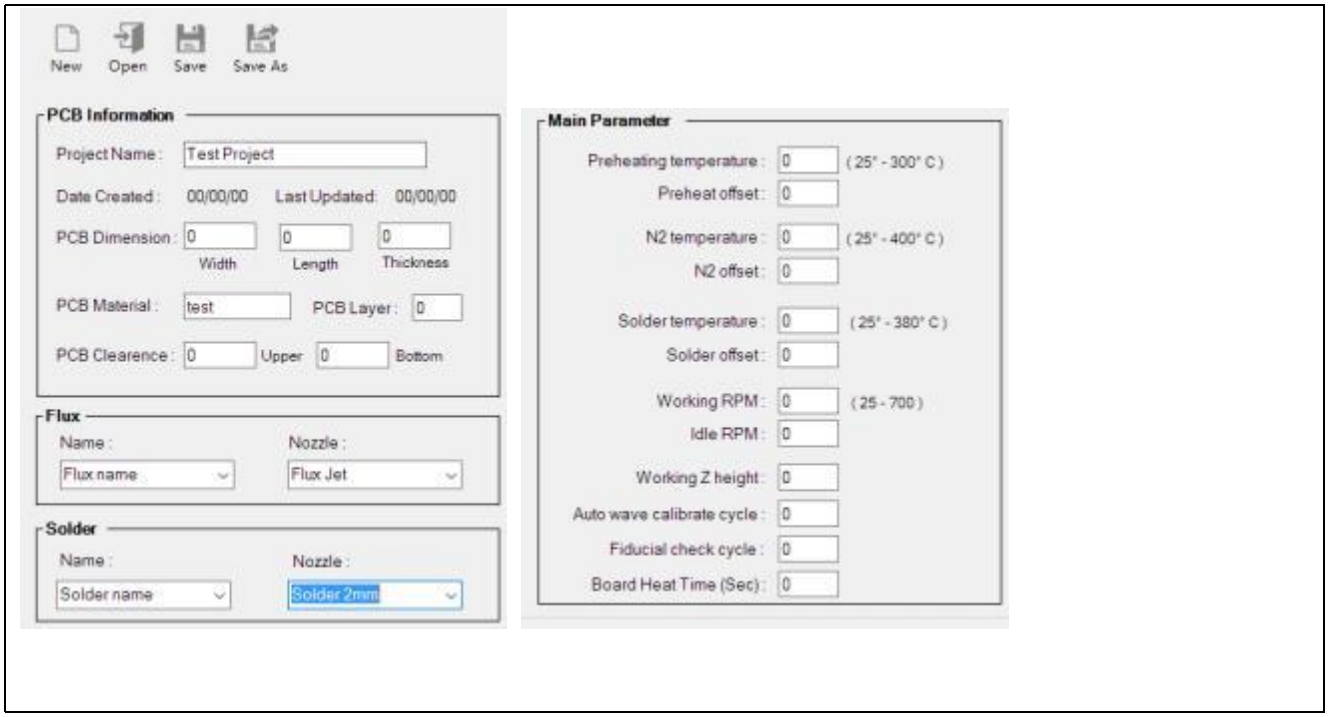


h Show solder process with live on camera.

i Critical parameters are totally under monitoring by PC software, like temperature, speed, pressure etc.

Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road, Baoan District, Shenzhen CN 518102
Tel:0755-83203237 E - m a i l : info@smthelp.com Website: www.SMThelp.com

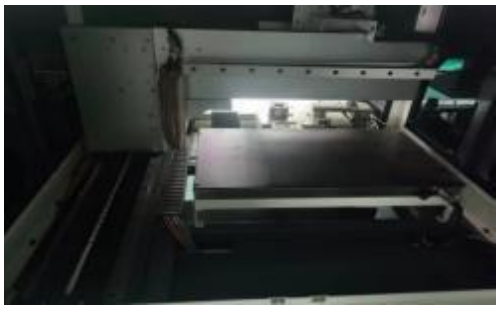
**Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road,
Banan District, Shenzhen City
Jason Wu(CEO) Mob: 13602562576 Tel:0755-83203237
E - m a i l : jasonwu@smthelp.com**



Part2: motion system

j Motion table was designed base on lighting concept.

k Panasonic servo motor & driver provide stable driving power, screw pole & linear guild rail for guidance. Precious position, less noise, stable movement.



**Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road,
Banan District, Shenzhen City
Jason Wu(CEO) Mob: 13602562576 Tel:0755-83203237
E - m a i l : jasonwu@smthelp.com**

Part 3: fluxing system

l Japan original injection valve, adapt to various flux

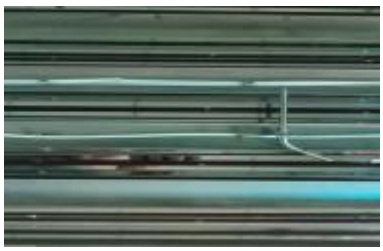
m Flux is stocked by PP plastic pressure tank, make sure pressure stable without influenced of amount of flux.



Part 4: Preheat

n Bottom preheating is standard equipped in machine, Position is adjustable.

o Heating ratio is adjustable by PC, from 0 ---100%



**Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road,
Banan District, Shenzhen City
Jason Wu(CEO) Mob: 13602562576 Tel:0755-83203237
E - m a i l : jasonwu@smthelp.com**

Part 5: solder pot

p Solder temperature, N2 temperature, wave height, wave calibration etc all able to set in software.

q Solder pot is made of Ti, not leakage. With cast iron heater outside, robust & quick heat up.

N2 online heating system, to wet the soldering perfectly and reduce the solder dross.

Part 6: PCB conveyor：

r Load board manually and unload board manually

**Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road,
Banan District, Shenzhen City
Jason Wu(CEO) Mob: 13602562576 Tel:0755-83203237
E - m a i l : jasonwu@smthelp.com**

Part 7: machine chassis

s Metal welding structure, with thick metal plate as base, so to reduce vibration and make machine more stable.

Machine specs

Machine name	SO-300
General	
dimension	L1220mm X W1000mm X H1450mm
general power	5kw
consumption power	1--3kw
power supply	Single-phase 220V 50HZ
net weight	380KG
reuiqred air source	3-5 Bars
required air flow	8-12L/min
required N2 pressure	3-4 Bars

required N2 flow	greater than 2 m^3/hour
required N2 purity	》99.998%
required exhausting	500--800CMB/H
carrier or PCB	
carrier	Using by requirement
max solder area	L300 X W300MM (Size customized able)
PCB thickness	0.2mm-----6mm
Pcb edge	3mm
Controlling & conveyor	
Controlling	**Industrial PC**
PCB Loading board	Manual
PCB Unloading board	Manual
Operating height	900+/-30mm
PCB conveyor up clearance	50MM
PCB conveyor bottom clearance	30MM
Motion table	
motion axis	X, Y, Z
motion control	闭环伺服控制 Servo control
position accuracy	+ / - 0.1 mm
Chassis	Steel structure welding
Flux management	
flux nozzle	jet valve
flux tank capacity	1L

Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road, Baoan District, Shenzhen CN 518102
Tel:0755-83203237 E - m a i l : info@smthelp.com Website: www.SMThelp.com

flux tank	Soldering flux container
Preheat	
preheat method	Bottom infrared preheating
heater's power	3kw
temperature range	25--240c degree
solder pot	
standard pot number	1
solder pot capacity	15 kgs /Furnace
solder temperature range	PID
melting time	60--90 Minutes
max solder temperature	350 C
solder heater	1.2kw
solder nozzle	
nozzle dim	Customized shape
material	alloy steel
standard equippednozzle	Standard configuration of 5 pieces per furnace (inner diameter of 3mm, 4mm, 5mm, 6mm, and 8mm)

Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road, Baoan District, Shenzhen CN 518102
Tel:0755-83203237 E - m a i l : info@smthelp.com Website: www.SMThelp.com

N2 management	
N2 heater	standard configuration
PID Control N2 temp range	0 - 350 C
N2 consumption	1-2m^3/h/pot

Add: Rm1806,Block3,Jinyun COFCO,Qianjin 2nd Road, Baoan District, Shenzhen CN 518102
Tel:0755-83203237 E - m a i l : info@smthelp.com Website: www.SMThelp.com