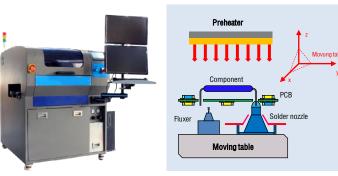
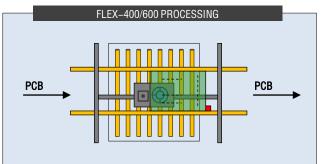
# Compact In line selective soldering module (all in one) FLEX-400/600 (400x400 / 580x580mm Pallet)



#### Descriptions:

FLEX Series compact inline selective soldering machine with most flexibility. It's include spray fluxer & solder pot at same x,y,z servo moving table, optional with top preheat zone, with in-line roller for conveyors. Meanwhile it's with industrial PC for programming & controlling, base on English Window 7 system, it's a best choice for customer looking for flexibility more than production yield.

**Machine working concept:** PCB will be moved in machine with stainless steel wheels conveyor system, after it's stopped by stopper, it will be side clamped by rear clamper cylinder, then the spray fluxer will start to work under setting program, after that the same table will move x,y,z to move solder nozzle under PCB for selective soldering. During whole process, the top preheater can be on to help keep the PCB's temperature.





Servo motor ,ball screw and linear rail for x,y ,z axis motion system, all motion system like ball screw, linear rail from best brand HIWIN in Taiwan.

Motion System



All servo motor, driver are from Japan originally. Panasonic or TAMAGAWA SEKI.



Stainless steel rollers for conveyors, can accomodate for both pallet & PCB. Meanwhile, it can minimize the PCB edge to 3mm. ( all position more than 3mm will be able to solder) Standard with front rail fixed and rear rail movable, both rail are equipped with stepper motor for conveyor individually.

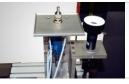


Standard equipped with rear side clamping system. After PCB or carrier arrive position, clamping system at rear conveyor will work to press PCB or carrier to fixed rail. This will enhance the repeatability of PCB positioning.



Cast aluminium for movement parts, providing a light & strong solution so to make sure machine can run at higher speed than competitors.

#### **Spray Flux**



Standard equipped with spray nozzle from Korea, which can meet minium dia 6mm flux dot dimension.and Pressure flux tank with regulating valve to make sure flux is always under same pressure, so to provide stable fluxing performance.

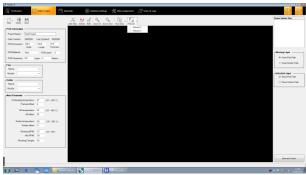
http://www.1clicksmt.com/selective-soldering-machines

# Software System

## Solder It

**"Solder it"** is windows OS 7 based software to create a solder program for each single solder point, with an easy POINT AND CLICK tool a repeatable solder program is done within minutes.

#### Advantages:



Standard equipped with Fiducial point setting, easy to get good repeat-ability of position.Programming under Gerber information,more precision information than picture All PCB information will be set and stock like dimension etc.



#### Production page:

Can see where the fluxer nozzle & soldering's location at path programming on time
Can check fidicious point of PCB so to get a good precision soldering
Can record soldering video or picture



Optional with drop jet valve from Germanny originally, which can meet dia 2mm flux dot dimension.



Pressure flux tank with regulating valve to make sure flux is always under same pressure, so to provide stable fluxing performance.

#### Preheating



Bottom preheat zone, IR & hot air convection optional .



Optional with upper preheating zone, to reduce the temperature drop on PCB during soldering, especially for thick PCB or heat absorber component.

### Soldering



Titanium soldering pot, 100% capable for lead free application. Standard equipped with mechanical pump, easy for maintenance.



The Slectvie Soldering Machine Electric trolley, it can quickly pull the solder pot out for cleaning maintenance

http://www.1clicksmt.com/selective-soldering-machines

# Software System

Solder It

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Strong database system, use machine longer time the more database will build, no worry for changing new operation. It will save flux information, fluxer nozzle information, solder information, solder nozzle information. And all information Will be record under the PCB's project information with the programming path & temperature information. For future same board running, just use the same configuration.

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X Nois Location		X.brs Location:		
Y Jack Location		Y Add Location		
Reset aller cycle :		Pasat alteroptie :		

Machine's setting will be opened for superior engineer.

- Can determine the wave calibration location, how often, very useful & necessary function to get a uniform soldering quality.
- Can determine location to feed solder wire, protection to feed too much solder and overflow the tank.



Optional with electro-meganetic pump, with coils from Germanny originally. No impeller, no bearing required. A real trouble free pot.



wave height calibration system. Can set in software after how many PCB soldering, the machine will calibrate the wave height automaticlly.



N2 direct heating system is standard equipped, can heat N2 to 350 c degree, enhance the wetting ability for lead free sodlering.



live camera can monitor soldering process in real time.



Can specially design solder nozzle for cusotmer's application, refer below samples. And specially designed groove for nozzle, can get a high & stable solder head, especially usually for fine pitch soldering. With right application, it can handle 0.5mm clearance pad.

#### Controlling system



All brand electrical parts, such as Panasonic servo & driver , Mitsubishi breaker , Schneider contactor, invertor etc , all wiring cetificated by CE .

http://www.1clicksmt.com/selective-soldering-machines

Item	FLEX-400	FLEX-600	Applications:		
General Operating power/Max power Machine dimension Net weight Power supply Exhausting required	4KW/6.5KW 1180(L)*1250(W)*1180(H) 330KG 1PH 220V 50HZ 200M3/h	4KW/6.5KW 1460(L)*1500(W)*1450(H) 380KG 1PH 220V 50HZ 200M3/h			
Robotic Platform Axes of Motion Motion Control Position Accuracy Frame Type Conveyor	X, Y, Z Closed Loop Servo + / – 0.05 mm Welded Steel	X, Y, Z Closed Loop Servo + / – 0.05 mm Welded Steel	Wire Soldering	Mixed PCB	
Inline SMEMA Auto Load Conveyor Minimum Board Size Maximum Board Size Edge Clearance Conveyor motor Conveyor speed Conveyor direction Width adjustment Conveyor type PCB clamping system Solder Management	Standard 50 x 50mm W400 x L400 4 mm stepper motor 200MM–1800MM/Min Left to right Auto (Set width in touchscreen) Rollers Side clamping	Standard 50 x 50mm W580 x L580 3 mm stepper motor 200MM-1800MM/Min Left to right Auto (Set width in touchscreen) Rollers Side clamping			
Solder Management Standard Solder Stations Solder Pot Capacity Solder Temperature Control Heat–Up Time Max Temperature Solder Pot heater Wave height close loop control Solder Nozzles	1 15 kgs PID 35 Minutes 380 C 3kw standard	1 15 kgs PID 35 Minutes 380 C 3kw standard	Automotive Senser	Mini SUB Connector	
MiniWave Nozzles MiniWave Nozzles Customized nozzle Nozzle Material Nitrogen (N2) Inertion Management N2 heater N2 Temp PID Control Range	Dia 2mm8mm Available Proprietary Alloy standard equipped 0 - 350 C	Dia 2mm8mm Available Proprietary Alloy standard equipped 0 – 350 C	Mixed PCB, tall components	Flex PCB to platic cover	
N2 Consumption per Nozzle Required N2 Purity   Oxygen Software   Control Typical Path Program Time	1.2m3/H 02 < 20 PPM 10 Minutes	0.51.2m3/H 02 < 20 PPM 10 Minutes	beside soldering pad	Flex PCB to platic cover	
Programming method Controlling system Flux Management(Optional)	Industrial PC programming with PCB scanned picture Touchscreen and PLC	Industrial PC programming with PCB scanned picture Touchscreen and PLC	1 CLICK M	ACHINE CO.,LIMITED	
Spray Flux Nozzle Spray Flux Durability Flux Capacity Flux Tank	Self designed spray valve (4mm – 10mm Coverage) High Durability Stainless Steel 2L Constant pressure tank	Self designed spray valve (4mm – 10mm Coverage) Or drop jet valve High Durability Stainless Steel 2L Constant pressure tank	Tel:+0086–0 Skype:onecli Mailbox:sale	AT TECHNOLOGY CO.,LIMITED 769–85303739 ckmachine s@1clickmachine.com sales@1clicksmt.com w.1clicksmt.com www.1clickmachine.com	