

- External flux conjunctions
- super energy saving
- Big Board Support
- PCB Width:
Max.50~450mm



Machine Specification			
Model	SWS450M	Solder pot type	4 th adjustable
PCB width	Max.50~450mm	Heating technology	Matrix straight heating, heating efficiency up to 95%
PCB convey height	750±50mm	Solder pot temp.	Room temp.~300°C、 accuracy±1-2°C
Conveyor speed	1500-1800mm / Min	Solder pot temp. accuracy	±10
Angle	3~7 degree	Finger types	Strong dicolpate finger/customized
Component height limit	Max.100mm	Solder bar adding way	Manually
Wave height range	0~18mm keep steady	Temp. control	P.I.D+SSR
Wave quantity	2	Machine control	PLC+PC
Preheating length	1800MM	Width adjust	Manually/motorized
Preheating zone	4 zones	Flux adding way	Automatically
Conveyor direction	Left to right	Flux flow rate	10~100ml/min
Preheat power	8KW	Spray method	Step motor+A-100 nozzle
Preheat temp.	Room temp.~250°C (adjustable)	Flux recycle	Tray to hold
Heating model	Hot air	Electricity	3P 5 wires 380V/3P 220V
Solder bar type	Lead-free	Total power	Max.22kw
Solder pot power	14kw	Normal running power	Approx.3-5kw

SWS450M Wave soldering machine (Big board solutions)

Solder pot capacity	Approx.480kg	Air supply	4~7KG/CM2
Solder pot material	Cast iron	Dimension	3900*1600*1730(Relocation spray Dimension 1500*1350*1550mm)
Weight	Approx.1500kg		
Machine cover			
Structure	Streamline cover design, the frame is made of thick square tube, the cover is made of 2mm steel plate. There are totally 6 wheels to move the machine easily.		
Front door structure	Fully enclosed glass door, transparent, pneumatic holder to support, ensure the operating and repairing space.		
Machine top	Anti-explosion lamp		
Surface treatment	Painted with white color		
Flux spraying			
Spray nozzle	Spray range:20~65mm,adjustable, nozzle height: 50~80mm adjustable, max. flow rate:100ml / min		
Air circuit	Acid and alkali resistant air pipe, the brand is SMC from Japan.		
Nozzle moving system	Step motor to drive, Mitsubishi PLC, with proximity switch and entrance sensor to control, according to the coming PCB's speed and width, the spraying system can detect and starts to work.		
Flux recycle system	Tray to hold the waste water and flux, can be draw out easily, make maintenance very convenient.		
Flux exhaust system	Exhaust system: stainless steel mesh frame+ double layers filter, recycle the flux to maximum.		
Isolated air curtain	Air pressure type knife, blow the redundant flux into the recycling box, to avoid the flux to enter into the preheating zones, ensures the safety.		
Spraying box structure	Made of full stainless steel, easy to clean and repair. Anti-corrosion, very durable.		

Preheating	
Preheating zone quan.	Preheating length is 1800mm, divided into 4 sections, supply abundant adjusting space, very good for big PCB and complicated PCB. Reduce the heat impact on PCB, improve the production efficiency.
Temp. control method	Mitsubishi temp. collecting module, PID is very precise and stable.
Heating parts	The heaters are imported from Taiwan, heat up very fast, with long life, small thermo lag; The heat is even in the zones.
Preheating power	22kw
Install mode	The heating module adopts drawer design, easy to replace and repair, make the maintenance very convenient.
Transmission	
Rail	Made of aluminum, wear resistant and without distortion.
Rail parallelism	Width adjusting accuracy less than 0.2mm
Width adjust	Manually/motorized
C/V speed setting unit	Min.1mm / min 0-1800mm / min
C/V speed variation range	Electric closed-loop control, within 0-10mm / min
Conveying motor	Panasonic motor from Japan

Solder pot	
Low oxidization design	High quality solder pot, the heat is very steady. Adopts liquid solder flow design, reduce the impact oxidization, especially for small PCB.
Economical running	Reduce the power consumption
Moving method	Motorized
Wave adjustable height	0-18mm
Wave motor	TCG motor from Taiwan , adjust the wave height with frequency conversion.
Preheating parts	Adopts the stainless steel heaters from Taiwan, with long life and power saving up to 40% daily.
Cooling	
Cooling method	Adopts high power centrifugal fan, reduce the air bubble and solder pad stripping
Automatic finger cleaning	
Imported premium pump, can wash the fingers from both side. Propyl alcohol to clean and can be recycled.	
Control software	
★Automatic alarm function for failure:: thermocouple abnormal, temp. too high or too low; if preheating system or solder pot is abnormal,the heating stops.	
★Preheating temp., solder pot temp., conveyor speed, spraying and cooling can be controlled separately.	
★One week automatic power on/off setting (three times one day)	
★The emergency stop are in front, rear of the machine, press them in case of any emergency.	

- Titanium finger with ball structure
- No frictional resistance
- No jitter
- Heavy board support



- 4 preheating zone
- Stainless steel room
- Improving soldering quality
- Stable processing



- Stable transport guide
- Design by best quality of aluminum profile
- Long life-cycle



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- DI (Ductile Iron) Solder pot
- or Titanium alloy solder pot
- Titanium alloy nozzle



- Spiral vacuum oxidation-proof sleeve
- Saving solder tin
- Improving Anti-oxidation function



- The 6mm cylindrical etching nozzle
- Turbulent wave
- Enhances the impact force of the tin
- Improving soldering quality for density SMT



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Comparison SWS450M vs JT SE350

Model	SWS450	JT SE-350M
1, Flux spray system	<p>The spray box has a modular design, which can be extracted as a whole, and is more convenient for maintenance and maintenance. The frame body structure is adopted in the box body to ensure the uniformity, stability and longevity of the spray for long-term use.</p> <p>2. The spray system is driven by the tank chain of the placement machine, and the operation is more stable.</p>	<p>The spray box has a modular design, which can be extracted as a whole, and is more convenient to maintain and maintain. The hardware of the box is made of metal bending parts (3MM stainless steel plate bending). The long-term uniformity of spray uniformity, stability and service life of the equipment is not used for a long time.</p>
2, Preheating system	<p>The standard configuration of 4 sections of micro-hot air (customizable) can be customized without any cost.</p> <p>Preheating system insulation around the insulation layer, more energy saving</p>	<p>The spray system is driven by traditional transportation methods and is unstable for a long time.</p> <p>Standard configuration of 3 sections of hot air.</p> <p>Preheating system part of the insulation layer insulation, non-four-sided insulation, power consumption</p>

Comparision SWS450M vs JT SE350

Model	SWS450	JT SE-350M
3 Transportion System	The patented design does not shake, does not jam, and the guide rail is invariant. The rail accessory replacement only needs to replace the steel strip on the inner side of the guide rail, and the guide rail has no wear. The conveyor chain does not need to be refueled.	The heavy plate will shake and become stuck. The transportation chain needs to be regularly heated with high temperature. Maintenance and replacement of the butter will not cause the card to die. Long time will wear the rail
4, Solder pot system	The peak level is like a mirror, the peak height is 15MM, and the peak shape can be adjusted arbitrarily. The function of the tin slag is automatically collected. The patented design of the wave nozzle (large impact force, better tin) is used to reduce welding defects such as continuous welding.	The traditional nozzle design, the peak is not stable above 10MM, the shape of the peak is not adjustable, and there is no automatic collection of dross.
5, Board input connection	Double-wave tin slag for about 10 hours 1.5KG (below 10MM), a wave of about 0.7KG / 12 hours	Double-wave tin slag for about 10 hours 4KG (below 10MM), a wave of about 1.5KG / 12 hours
6, Others	Combined with Taiwan's design, Lite-On specifies the use of this structure, no card board, stable connection, no gap here	using the traditional structure, easy to board
	1, The bottom of the stove is also made of stainless steel for easier maintenance. 2, Patented portable anti-oxidation cover design, can be completed in 5 minutes during production	Traditional oxidizer design, 4-8 hours of disassembly in production (requires discontinuation).

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