

**Machine Specification**

Model	KTU-450	Solder pot type	4 <sup>th</sup> 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.~350°C, accuracy ±1-2°C
Conveyor speed	1500-1800mm / Min	Solder pot temp. accuracy	±1°C
Angle	3~7 degree	Finger types	Strong titanium 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 (dual waves)	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	10KW	Spray method	Step motor+A-100 nozzle
Preheat temp.	Room temp.~250°C (adjustable)	Flux recycle	Tray to collect
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
Solder pot capacity	Approx.480kg	Air supply	4~7KG/CM2
Solder pot material	Cast iron	Dimension	4500*1600*1730
Weight	Approx.1500kg		

<b><i>Machine cover</i></b>	
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
<b><i>Flux spraying</i></b>	
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.

<b><i>Preheating</i></b>	
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.
<b><i>Transmission</i></b>	
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
<b><i>Solder pot</i></b>	
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.
<b><i>Cooling</i></b>	
Cooling method	Adopts high power centrifugal fan, reduce the air bubble and solder pad stripping
<b><i>Automatic finger cleaning</i></b>	
Imported premium pump, can wash the fingers from both sides. Propyl alcohol to clean and can be recycled.	
<b><i>Control software</i></b>	
★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 stops are in front, rear of the machine, press them in case of any emergency.	