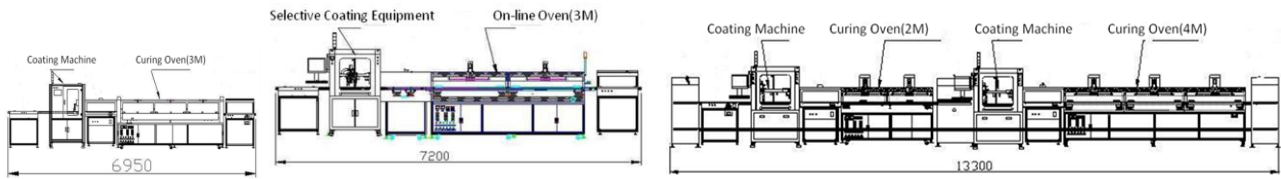


ETA PCBA Coating Line Solution

Coating Solution:








PCBA Coating Machine T550

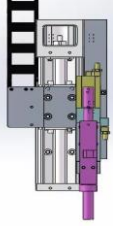
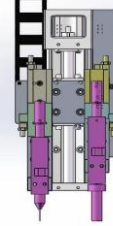
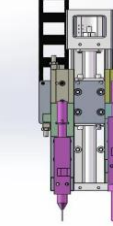




1. PLC control, windows operation, fault acousto-optic alarm and menu display.
2. Continuous surface spraying, automatic detecting initial distance and coated width.
3. Servo motor reciprocating coating, can be arbitrary set about PCB before and after the offset. Special aluminum alloy orbit and stainless steel conveyor chain.
4. Equipped with a fan-shaped spray glue valve, can be automatically.
5. Rubber valve automatically soak, to prevent clogging.
6. Inlet and outlet are equipped with communication socket, can online connection with other machines.
7. Independent paint container barrels
8. Equipped with exhaust gas collection, outfalls.

Value Type:

Value	Photo	Describe
<p>Needle dispensing valve H801</p>		<p>Advantages: Non-atomization, high edge clarity. The glue has a wide range of viscosity and can be used as a supplement to other atomization valves.</p> <p>Disadvantage: The coating is slightly thicker and the coating efficiency is slightly lower.</p> <p>Applicable glue: polyurethane, acrylic acid, silicone, UV glue and other systems of glue.</p> <p>Applicable board type: LED, driving power supply, industrial control, automotive electronics, instruments and other PCBA boards.</p> <p>Nozzle diameter: 0.5-3.0 mm</p> <p>Glue CPS range: 50-3000 CPS</p> <p>Coating Width Range: 2-5mm</p> <p>Coating thickness: 25-500 um</p>
<p>Conical atomization valve H802</p>		<p>Advantages: atomizable, moderate spray line width, moderate edge clarity, the most widely used.</p> <p>Applicable glue: polyurethane, acrylic acid, silicone, UV glue and other systems of glue.</p> <p>Applicable industries: LED, driving power supply, industrial control, automotive electronics, instruments and other PCBA boards.</p> <p>Nozzle diameter: 0.3-0.5mm</p> <p>Glue CPS range: 50-1000 CPS</p> <p>Coating Width Range: 5-15mm</p> <p>Spraying thickness: 25-150 um</p>
<p>Fan-shaped atomization valve H803</p>		<p>Voltage point: atomizable, large spraying area, high efficiency. Glue viscosity has a wide range of applications.</p> <p>Disadvantage: The edge clarity is not high. Non-precision atomization</p> <p>Applicable glue: polyurethane, acrylic acid, silicone, UV glue and other systems of glue.</p> <p>Applicable type: LED, driving power supply, industrial control, automotive electronics, instruments and other PCBA boards.</p> <p>Glue CPS range: 50-1000 CPS</p> <p>Coating Width Range: 10-30 mm</p> <p>Edge clarity: +1mm</p>
<p>Three mode valve H902</p>		<p>Advantages: It can be atomized and has high edge clarity. Moderate efficiency.</p> <p>Disadvantage: Glue viscosity in 200-600 micron edge clear better.</p> <p>Applicable glue: polyurethane, acrylic acid, silicone, UV glue and other systems of glue.</p> <p>Applicable type: LED, driving power supply, industrial control, automotive electronics, instruments and other PCBA boards.</p> <p>Glue CPS range: 200-600 CPS</p> <p>Coating Width Range: 8-15mm</p> <p>Edge clarity: +0.1</p>

<p>Water Curtain Valve (Film Valve) H903</p>		<p>Advantages: Non-atomization, high edge clarity, suitable for thick film coating 150-500 microns. The spraying efficiency is high.</p> <p>Disadvantage: The glue viscosity should be within 100 cps.</p> <p>Applicable glue: polyurethane, acrylic acid, silicone, UV glue and other systems of glue.</p> <p>Applicable industries: LED, driving power supply, industrial control, automotive electronics, instruments and other PCBA boards.</p> <p>Nozzle diameter: 6-12 mm</p> <p>Glue CPS range: 100 CPS</p> <p>Coating Width Range: 10-25mm</p> <p>Coating thickness: 150-500 um</p>
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Model	ETA T500	ETA T550	ETA T550U	ETA T600	ETA T650
Nozzle Number	1	2(atomization valve 1head, precision valve 1head)	2(atomization valve 1head, precision valve 1head)	2 (atomization valve 2head)	3 (atomization valve 2head, precision valve 2head)
					
Axis Number	3-Axis X,Y,Z	3-Axis X,Y,Z	4-Axis X,Y,Z,U	3-Axis X,Y,Z	3-Axis X,Y,Z
Valve Rotation Angle	N/A	N/A	±180°	N/A	±180°
Valve Bevel	N/A	N/A	0~45°	N/A	N/A
PCB Size(mm)	50*50 ~ 450*450				
PCB Thickness	0.4~6mm				
PCB Warpage	<1%				
Transport Height	900±20mm				
Transport Direction	Left-Right; Right-Left				
Transport Speed	Max 3500mm/s				
Width Adjustment	Auto				
Driver System	Servo Motor				
Valve Cleaning Angle	35 (Standard:Automatic cleaning function)				
Material Volume	1set 10L glue bucket + 1set 2L cleaning bucket				
Max. Speed	400mm/sec				
Max. Component Height	100mm				
Smallest Dispense Diameter	0.8mm				
Fan Shape Spray Width	6~8mm				

Smallest Spray Diameter	5mm
Repeate Accuracy	±0.01mm
Product Changeover	<5Mins
Inspect Light	UV Light
Air Pressure	4.5~6Kg/cm2
Power Supply	AC:220±10%,50/60HZ, 2.5Kw
Control Method	PC Control
Dimension(mm)	L1100*W1300*H1700
Weight	Approx:750kg

Materials List:

No.	Item	Brand	Original
1	Linear Guideway	HIWIN, REXROTH	Taiwan, Gemany
2	Servomotor& driver	Panasonic, FUJI	Japan
3	Sensor	OMRON, Schneider	Japan, France
4	Cylinder	SMC, AIRTEC	Japan, Taiwan
5	Software	ETA	China
6	Bearing	NSK	Japan
7	Soft Cable	IGUS	Gemany
8	PC	ADVANTECH	Taiwan

PCBA Coating Loader &Unloader



- 1.Strong,firm and stable design.
- 2.'soft touch' LED control panel or touch screen can be selected.
- 3.Top&bottom pneumatic clamps to secure magazine rack.
- 4.No PCBA breakage guaranty because of special gas circuit design.
- 5.Automatical diagnosing fault code display function.
- 6.Wear-resistant cable and have long service life.
- 7.Compatible SMEMA interface.

Model	CLD	CULD
Dimension(mm)	850*865*1250	
PCB Size(mm)	50*50-450*450	

Time Feed PCB	Seconds 8 Approx. or Specify	
Control System	PLC	
Power	Max 400 VA	
Air Supply	4-6bar, 10ltr/Min Max	
Transport Height	900±20mm (or Customer Specified)	
PCB Direction	L to R or R to L	
Communication	SMEMA for Both In & Out	
Power Supply	1 PH AC 220V 50/60Hz (Option:110V to 380V)	
Weight	220 Kg	220 Kg

PCBA Coating Conveyor



- 1.Modular design, optional assembly as per client’s requirement.
- 2.Rugged steel design, improves equipment stability .
- 3.Smooth stainless steel screw to adjust the width of the rail.
- 4.Variable speed control.
- 5.Circuit board testing mode.
- 6.Using a dedicated aluminum slot for transfer orbit to prevent PCB stuck.
- 7.Heavier bottom design, not easily shift.





Model	Conveyor	UC-1000(UV Inspection Conveyor)	SC-1000(Seal UV Conveyor)
Photo			
Rail Length(mm)	1000(Size can customized)		
Dimension(mm)	1000*700*950		
PCB Width	50 to 350 mm		
PCB Direction	L to R or R to L		
Speed	Adjustable		

Switch	Foot Switch		
Control System	Industrial Control Module System		
UV Inspect Lighting	N/A	Standard	Standard
Sealing Cover	N/A	N/A	Standard
Conveyor Chain	Stainless Steel Chain		
Communication	SMEGA		
Power Supply	1 PH AC 220V 50/60Hz (Option:110V to 380V)		
Weight	75 Kg	85 Kg	95 Kg

PCBA Coating IR Oven



1. Control system: Instrument or plc+touch screen or PC control optional, make sure machine working steadily.
2. IR heating: top zones IR heating, good heater compensatory, High thermal efficiency, energy saving, speedy heating, Temperature Accuracy $\pm 1.5\text{ }^{\circ}\text{C}$, room temperature settling time less than 20 minutes.
3. PID intelligent precision controller, automatically control heating volume, fuzzy control function changes the external heating fast, and by internal control ensures more balanced temperature.
4. Use imported big current solid relay, without touch point output, safe, reliable, with special SSR radiator, greatly improve thermal efficiency and lifetime.
5. ETA using third-party over-temperature protection, multiple layers protection to ensure safe operation.
6. Products comply with CE, CCC, UL and other standard or specifications.
7. Independent cooling area ensures the low temperature when PCB comes out.
8. Transmission system use imported motors, speed adjuster, smoothly running, adjustable speed at 0-2000mm/min.
9. ETA design makes temperature from each zone is not influenced by neighbour to ensure accurate temperature curve, to achieve high adaptability.
10. Using zero gas source design, furnace cover with motor lifting, safety rod support, providing significant security.
11. Special durable Rail not out of shape. Central support, dual transmission, external water cooling system is optional.

Specifications	IR3	IR4	IR8	Customized
Photo				
Transport	Rail	Rail	Rail	Mesh or Rail
Control System	Touch screen	Instrument or PC	Instrument or PC	PC
Heating Mode	IR(Hot air Optional)	IR(Hot air Optional)	IR(Hot air Optional)	IR(Hot air Optional)




Conveyor Speed	100~3000mm/min	100~3000mm/min	100~3000mm/min	100~5000mm/min
Number Of Heating Zones	Up3 / Bottom0	Up4 / Bottom0	Up8 / Bottom0	Up9~24 / Bottom9~24
Bottom Heating	Optional	Optional	Optional	Optional
Length Of Heating Zones	2200mm	2800mm	3900mm	Customized
Number of Cooling Zones	1	1	1	1 or 2
Warming Time	Approx.20 minute	Approx.20 minute	Approx.20 minute	Approx.20 minute
Power For Warm Up	15Kw	18Kw	24Kw	Customized
Power Consumption	6Kw	8Kw	10Kw	Customized
Temperature Deviation	± 1.5℃	± 1.5℃	± 1.5℃	± 1.5℃
Transport high	900 ± 20mm	900 ± 20mm	900 ± 20mm	900 ± 20mm
Maximum PCBA Height	± 110mm	± 110mm	± 110mm	Customized
Max.Width Of PCBA	350mm	350mm	350mm	Customized
Conveyor Direction	L→R (Option: R→L)	L→R (Option: R→L)	L→R (Option: R→L)	L→R (Option: R→L)
Cooling Method	Air fan	Air fan	Air fan	Air fan or chiller
Exhaust Volume	10M3/min x 2 Exhausts	10M3/min x 2 Exhausts	10M3/min x 2 Exhausts	10M3/min x 2 Exhausts
Electric Supply	3phase,380V 50/60Hz	3phase,380V 50/60Hz	3phase,380V 50/60Hz	3phase,380V 50/60Hz
Dimension (L*W*H)mm	3000x950x1400	4000x950x1400	5000x950x1400	Customized
Weight	Approx.550KG	Approx.850KG	Approx.1150KG	Customized

UV Curing Oven



1. Control system: Instrument or PLC+touch screen control, make sure machine working steadily.
2. UV lamp lifetime can reach 1000-1200 hour, the energy of UV is higher and the penetration ability of the coating is stronger. abnormal lamp protection device.
3. Conveyor belt made by Teflon materials, has no pole speed regulation, and speed is stable and adjustable.
4. Focus design, import high light reflector lamp shade, instant drying, fast speed..
5. Independent cooling area ensures the low temperature when PCB comes out.
6. Transmission system use imported motors, speed adjuster, smoothly running, adjustable speed at 0-2000mm/min.
7. Stainless steel chain transportation, the effective width is 50-450mm, the width can be adjusted.
8. The equipment has the function of in and out board detection, which can observe the number and transportation of the boards in the equipment.

9. It is equipped with transformer, reflector, lamp tube, trigger, UV reflective device and reflector at the bottom, which greatly improves the utilization rate of UV light. Each group of UV lamps can be controlled separately, and the height can be adjusted up and down.

Specifications	U1	U2	U3
Photo			
Transport	Teflon mesh belt	Stainless steel chain	Stainless steel chain
Control System	Instrument	PLC+touch screen	PLC+touch screen
Conveyor Speed	100~3000mm/min	100~3000mm/min	100~3000mm/min
UV light quantity	1set	2 set	2 set
UV light power	2Kw/set	3Kw/set	3Kw/set
UV light source	UVA band	UVA band	UVA band
Main wave length	365nm	365nm	365nm
UV light height adjustment	Adjustable	Adjustable	Adjustable
Transport high	750+/-20mm	900+/-20mm	900+/-20mm
Maximum PCBA Height	+80mm	+/-100mm	+/-100mm
Max.Width Of PCBA	350mm	450mm	450mm
Conveyor Direction	L→R (Option: R→L)	L→R (Option: R→L)	L→R (Option: R→L)
Cooling Method	Fan	Forced-Air	Forced-Air
Exhaust Volume	10M3/minx1 Exhausts	10M3/minx2 Exhausts	10M3/minx2 Exhausts
Electric Supply	3phase,220V	3phase,380V 50/60Hz	3phase,380V 50/60Hz
Power Consumption	5KW	7KW	7KW
Dimension (L*W*H)mm	1950x770x1700	1950x1000x1500	3000x1000x1500
Weight	Approx.350KG	Approx.420KG	Approx.520KG

Application:





Customers:

Special Oven Customers	Application
	Test and verification for components
	Glue curing for automobile battery module
	Test and verification for components(inductor and Modular),SMT
	Huawei Duplexer soldering,HISILICON BGA test and verification
	Test and verification for components
	Test and verification for components
	Test and verification for components
	Test for special materials
	Glue curing for power source and motor

Thanks for choosing ETA.
ETA looks forward to win-win cooperation.