

Seamark Coating Machine Whole line Specifications

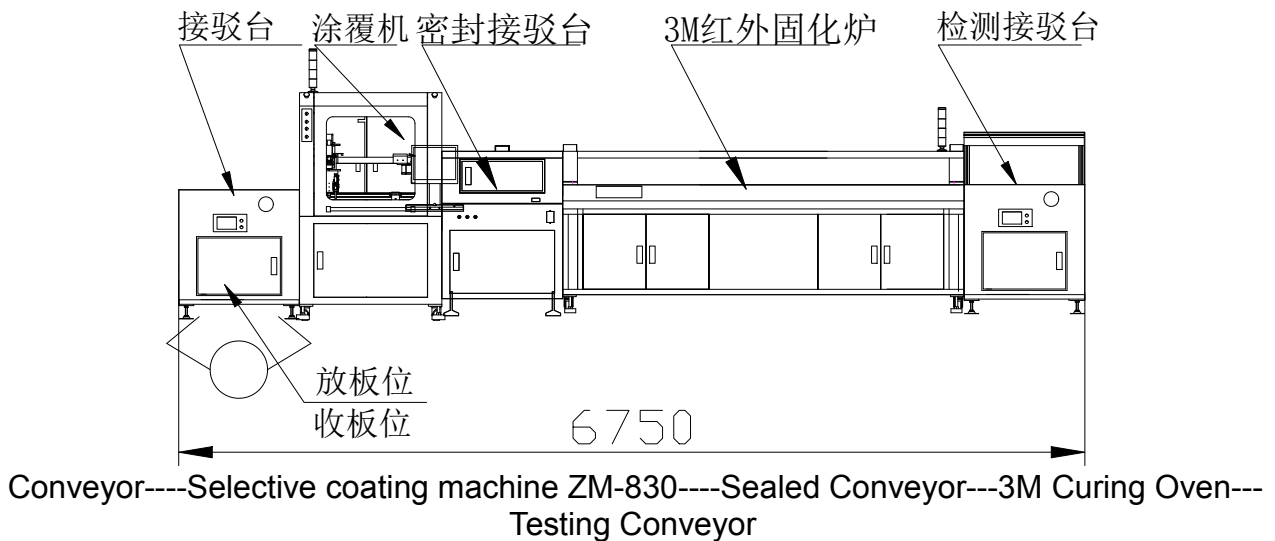
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The first part: Schematic and explanation of coating scheme:

1. Device Configuration

Items	Model Name	数量
1	Automatic Conveyor (ZM-201)	1set
2	Selective coating machine (ZM-830)	1set
3	Sealed Conveyor (ZM-202)	1set
4	Curing oven(ZM-300C)	1set
5	Testing Conveyor (ZM-203)	1set

2. Scheme diagram



3. Production line requirements and capacity description:

- 1). Venue: 7M*3M
- 2). Operators: 1-2;
- 3) glue range: acrylic, polyurethane, silicone, UV and other coatings;
- 4). The customer provides 220V/380V power supply interface, air supply, and exhaust ducts and fixtures.

The Second parts: Specifications

1、Automatic Conveyor (ZM-201)

1)、Photo:



2): Specifications

Machine Size L*W*H	L900mm*W890mm*H980mm
PCB Transmission height:	920±20mm
Transportation speed	0-3500mm/min adjustable
Transmission direction:	L→R (R→L)
Transmission motor power	AC220V 40W
Delivery method	Chain Conveyor (35B5mm Long Pin Stainless Steel Chain)
Conveyor rail width	50—450mm
PCB Size	MAX: L600*W450
PCB board component height	Height MAX120mm
control method	Button control
power supply	AC220V
Total power	0.1KW

3): Function Description:

- 1, the control part: button-type control, simple and easy to understand;
2. Rack part: The frame is made of high-grade aluminum profile galvanized sheet, strong and durable; the process of sheet metal using electrostatic powder baking powder is completed, and it is beautiful and easy to clean.
3. Conveying part: The power adopts the motor with deceleration box, the transportation speed

is 0-3.5 meters per minute; The self-developed conveyor line aluminum is convenient and beautiful, the transmission mode is chain transmission, the conveying width can be adjusted manually, and the adjustment accuracy is higher. The adjustment range is 50-450mm; the chain is 3 points with a baffle and a long pin stainless steel chain, and the conveying mode is divided into online and straight type.

2、Selective coating machine (ZM-830)

1).Image:



2) . Parameters:

Dimension L*W*H	L1060mm*W1200mm*H1700mm
Equipment platform	T20 mm steel plate chrome plated
control method	Industrial Control + Board
Operation method	Computer control
Programming method	Manual teaching
Running program storage quantity	1000pcs above
PCB transfer height:	920±20mm
Transportation speed:	0-5000mm/min
Delivery direction:	L→R (R→L)
Transmission motor power	2 stepping motors
PCB width range	50-450mm
Adjustment method	Intelligent automatic adjustment
Adjust the drive	Stepper motor + double precision screw drive
X.Y.Z triaxial drive	Japan Fuji servo motor + precision screw module driver
X.Y.Z three-axis maximum operating speed	800mm/s

Number of valves:	2pcs
Valve type:	1 small spray valve, 1 valve
PCB size	MAX:W450mm*L450mm
PCB board component height	MAX70mm
Drum capacity	A 10L stainless steel inner barrel with stirring function pressure barrel + A small cleaning pressure barrel with stainless steel pressure tank for cleaning
Cleaning function	The device comes with cleaning function
Lighting section	The device comes with lighting
Detection section	The device comes with UV detection light source
Power	AC220V
Gas source	4-6kgf/cm ²
Total Power	1. 7KW

3: Function description of the device:

- 1) X, Y, Z, and triaxial movements to accurately achieve selective spraying of various circuit boards avoiding uncoated areas such as connectors.
- 2) Accurately achieve selective spraying of various circuit boards.
- 3) It can realize multi-track spraying such as spot coating, line spraying and curve spraying, and can complete the spraying process of high density and complex circuit board.
- 4) It can effectively and evenly coat the edge of the device, and it can eliminate the coating shadow effect.
- 5) The system accuracy is ± 0.02 mm.
- 6) High-speed, high-reliability, high-stability drive and control system.
- 7) The standard equipment carries two valves at the same time, and the two valves can realize the automatic switching and cooperation of the spraying action and can realize the high-density circuit board spraying process.
- 8) The device automatically narrows and narrows the function with the intelligent (input board width can be automatically adjusted in place).
- 9) Programming mode: The software program has data input automatic programming; the handle manually enters any track automatic programming mode.

三: Sealing inspection table (ZM-202)

1、Image:



2: Parameter:

Dimensions : L*W*H	L900mm*W850mm*H1230mm
PCB Transmission height:	920±20mm
Transportation speed	0-3500mm/min(adjustable)
Delivery direction:	L→R (R→L)
Transmission motor power	AC220V 40W
Delivery method	Chain Conveyor (35B 5mm Long Pin Stainless Steel Chain)
AM method:	Hand-type adjustment
PCB Size:	MAXW450*L450
illumination	incandescent lamps
Inspection	The device has a UV detection light source
Power	AC220V
Total power	0.1KW

3: Function Description:

- 1, the control part: button-type control, simple and easy to understand;
2. Rack part: The rack adopts full sheet metal welding and electrostatic dusting baking powder to complete the design and manufacture, which is strong, durable and beautiful.
- 3, the transport part: power using a motor with a gear box, transport speed 0-6 m / min; self-developed conveyor line aluminum convenient and beautiful, the transmission mode for the chain drive, the transmission width can be manually adjusted, the adjustment accuracy is higher, The adjustment range is 50-450mm; the chain is 3 points with a baffle and a long pin stainless steel chain, and the conveying mode is divided into online and straight type.
- 4, the detection part: the device comes with lights, the device comes with fluorescent lights, can detect UV glue and other fluorescent liquid.

4 : Curing oven (ZM-300C)

1: Image:



2: Parameter:

Dimensions L*W*H	L3000mm*W1100mm*H1300mm
PCB transfer height:	920±20mm
Transportation speed	0-3500mm/min
Delivery direction:	L→R (R→L)
Transmission motor power	AC220V 120W
Delivery method	Chain Conveyor (35B5mm Long Pin Stainless Steel Chain)
PCB width	MAX450mm
Number of heat pipes:	18 个
Number of temperature	Upper three heating zones

zones:	
Temperature adjustment range:	Room temperature - 100 degrees
Heating time	< 10mins
PCB Size	MAXW450*L450
PCB board component board height	MAX70mm
Open way	Pneumatic lift
AM method:	Automatic narrowing
control method	Touch screen control
Power	AC380V
Total Power	9.5KW

3: The device works:

1, the transport system:

1) Adopting the chain transportation method, the width between the chains can be arbitrarily adjusted in the range of 50-450mm to meet the customers' various connection methods. The chain uses stainless steel and long pin chain. The speed of transportation is adjustable.

2) Special reinforced aluminum alloy guide rails, which can withstand high temperatures and cooperate with the support adjustment mechanism to ensure the minimum amount of deformation and eliminate the phenomenon of board dropping.

2, curing system

1) The equipment is divided into three infrared heating zones. Infrared heating in each temperature zone can independently control the temperature and control the maximum temperature of 100°C.

4) PLC + touch screen control, to achieve precise control of temperature in 3 temperature zones,

5、Testing Conveyor (ZM-203)

1、Image:



2: Parameter:

Dimensions L*W*H	L900mm*W890mm*H1350mm
PCB transfer height:	920±20mm
Transportation speed	0-3500mm/min adjustable
Delivery direction:	L→R (R→L)
Transmission motor power	AC220V 25W
Conveyor rail width	50—450mm
PCB size	MAX: L450*W450
PCB board component height	Up/down MAX70mm
AM method:	Hand adjustment
illumination	The device comes with a light source
Inspection	The device has a UV detection light source
Power	AC220V
Total Power	0.1KW

3: Function Description:

- 1, the control part: button-type control, simple and easy to understand;
2. Rack part: The frame is made of high-grade aluminum profile galvanized sheet, strong and durable; the process of sheet metal using electrostatic powder baking powder is completed, and it is beautiful and easy to clean.
- 3, the transmission part: power using a motor with a gear box, transport speed 0-3.5 m / min; self-developed aluminum conveyor line convenient, beautiful, the transmission mode for the chain drive, the transmission width can be manually adjusted, the adjustment accuracy is higher, The adjustment range is 50-450mm; the chain is 3 points with a baffle and a long pin



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stainless steel chain, and the conveying mode is divided into online and straight type.

4, the detection part: the device comes with lights, the device comes with fluorescent lights, can detect UV glue and other fluorescent liquid.