

# **A & A Global Resources Pvt. Ltd.**



**RESOURCES**

**Creating Future Together**

## **CONFORMAL COATING CATALOGUE**

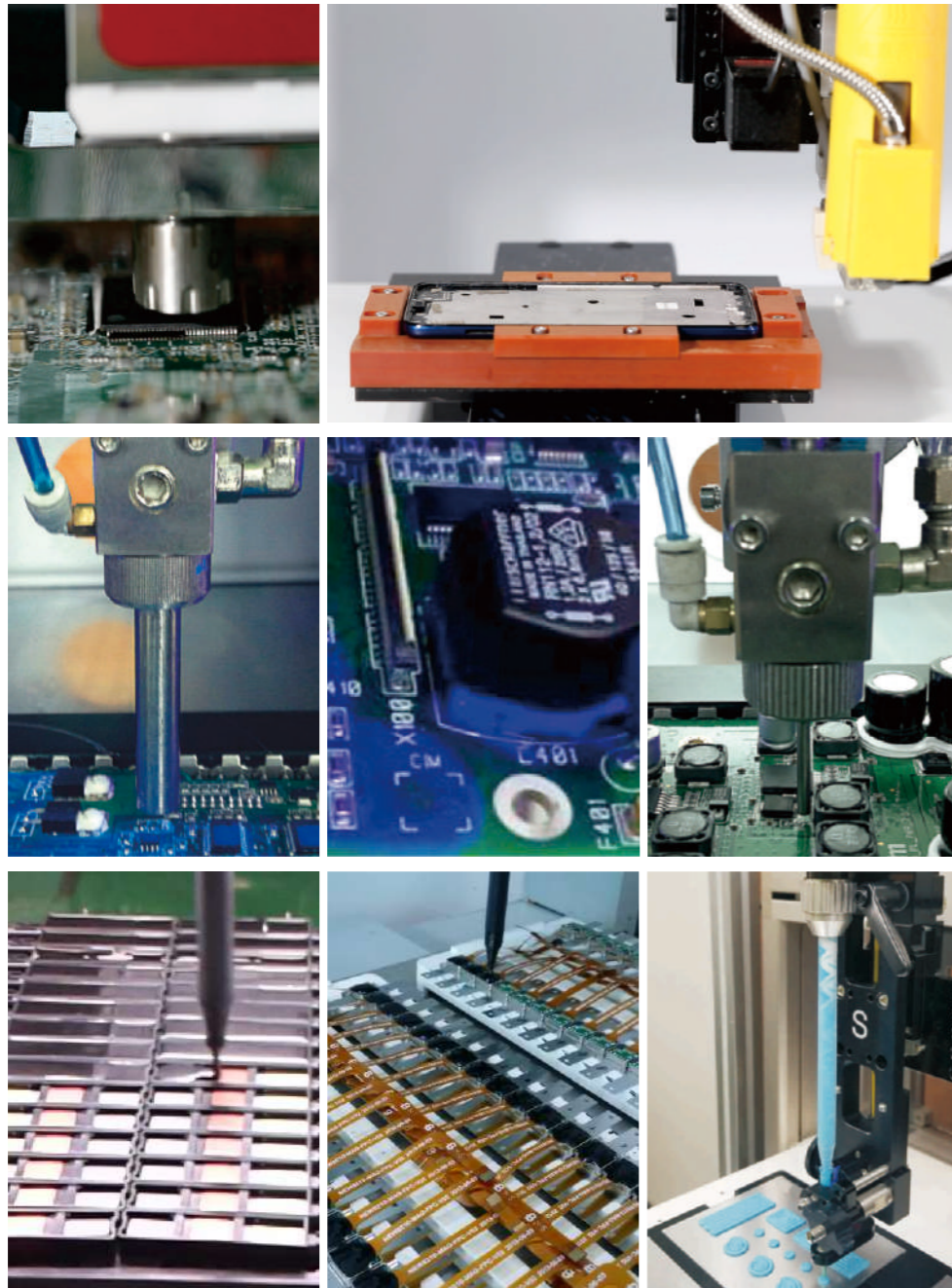
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## MULTIFUNCTIONAL FLUID APPLICATION SYSTEM



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# High Speed Dispenser



## Application:

- Thermal adhesive
- Component packaging
- Red glue
- Semiconductor packaging
- SMT underfill
- Solder paste
- Black glue
- Wafer fixing

## Features:

1. Using computer control, WINDOWS operating system, fault sound and light alarm and menu display
2. CCD Vision Positioning System
3. Using servo motor + motion control card
4. Professional motion control and high-quality module structure lay a solid foundation for high-speed and high-precision operation
5. The cast iron chassis and gantry provide a strong guarantee for the stability of operation
6. Can be equipped with: pneumatic injection valve, piezoelectric valve, screw valve, etc.
7. Automatic constant temperature system of valve body to ensure consistent fluidity of paint
8. Directly import any brand of placement machine files, or online visual programming
9. Optional laser height detection system, the Z-axis height can be automatically calibrated after the workpiece is deformed
10. Optional workpiece heating system to enhance the fluidity of the paint during underfilling

## Technical Parameter:

Item	Specification and description		
Model No.	HSD200	HSD300	HSD450
Dimension	L=700mm W=1000mm H=1600mm	L=750mm W=1200mm H=1600mm	L=850mm W=1350mm H=1600mm
Net weight	500kg	700kg	800kg
Control	IPC+Motion control card		
Software	Sanco software+Windows		
Program	SMT file or online vision programming		
Number of spindles	X Y Z		
Spindle drive	Servo motor X Y servo motor Z		
Distance Range	X:250mm Y: 250 Z: 50mm	X:300mm Y: 300 Z: 50mm	X:450mm Y: 450 Z: 50mm
Valve quantity	1 pcs(Standard)		
Maximum Speed	1000mm/s		
Repeatability accuracy	±0.01mm		
Paint volume	300CC		
Paint detect	Auto detection		
Interface	SMEMA		
Direction	left→right(Standard) □right→left		
Valve cleaning device	Vacuum cleaning		
Alarm	Menu + sound and light alarm		
Conveyor	Belt conveyor		
Speed	stepper motor 2-5m/min		
Delivery modulate	50-250mm	50-350mm	50-450mm
Power supply	220V 50/60HZ		
Air pressure	≥0.65Mpa		
Safety standard	CE		
Total power	2.5KW		
Standard function	CCD visual positioning		
	LED		
	Electrostatic interface		
	232 interface		
	Jacking device		

# Desktop Visual Dispenser

The desktop visual dispenser adopts special operating software, supporting a new type of vision system technology, and special glue dispensing vision software to ensure the accuracy of the dispensing process.



## Application:

- Camera module
- Under filling
- Surface mounting
- Pin encapsulation
- Filling and Daming
- Solar Cell/Photovoltaic Packaging
- Mobile phone speaker receiver
- PCB soft board dispensing
- Semiconductor/New Energy Battery Packaging
- VCM Motors and Vibration Motors

## Features:

1. With the jet valve, it can realize non-contact jet dispensing, achieve a smaller dispensing diameter, and a wider application field
2. Template matching, edge recognition and other visual recognition methods, which can adapt to products of different shapes, colors and materials
3. Optional all stainless steel mirror case to meet the requirements of 100-level dust-free production
4. Professional motion control and high-quality module structure lay a solid foundation for high-speed and high-precision operation
5. Automatic calibration and visual programming, suspended graphic track preview
6. Valve control enables direct pulse control for on-the-fly dispensing, point count and glue volume control
7. With the rotation module, it can realize tilting or rotating dispensing
8. Optional linear motor drive, positioning accuracy up to  $\pm 10\mu\text{m}$
9. Excel-style program line editing interface, simple and user friendly
10. Optional workpiece heating system to enhance the fluidity of the paint during underfilling

## Technical Parameter:

Item	Specification and description		
Model No.	DV250	DV300	DV325
Dimension	L=600mm W=600mm H=650mm	L=650mm W=650mm H=650mm	L=650mm W=850mm H=650mm
Net weight	75kg	85kg	120kg
Control	IPC+Motion control card		
Software	Sanco software+Windows		
Number of spindles	X Y Z		
Spindle drive	Linear Electric Motor X Y servo motor Z		
Distance Range	X:250 Y: 250 Z: 50(mm)	X:300 Y: 300 Z: 50(mm)	X:250 Y: 300 Z: 50(mm)
Valve quantity	Piezo valve Standard		
Maximum Speed X/Y/Z	800mm/s X/Y 300mm/s Z		
Visual positioning system	1.3 megapixel industrial camera		
Resolution(mm/pixel)	0.01*0.01 (adjustable)		
Recognition range (mm)	14*14 (Depending on the selected lens)		
Light source	LED light source (ring light, coaxial light optional)		
Repeatability accuracy	0.01mm		
Paint volume	30CC		
Power supply	220V 50/60HZ		
Air pressure	$\geq 0.65\text{Mpa}$		
Total power	1.5KW		

# Desktop dispenser

T series semi-automatic dispensing machine is a high-tech product integrating precision machinery, automatic control and precise dispensing control technology. This product has the advantages of strong function, simple programming, convenient operation and cost efficiency.

Through the motion controller, motor, motion platform and system control software, the working platform can move according to the expected trajectory, and through the built-in glue supply controller, together with the glue storage bucket, dispensing valve or dispensing needle, control the extrusion of glue output, so as to realize the automatic dispensing process.



## Application:

- Home appliance control board
- Instrumentation circuit board
- Solar panel
- Car electronic control board
- Industrial Equipment Control Board
- Motor control board
- Battery protection board
- Consumer Electronics Control Board

## Features:

1. The T series three-axis automatic glue dispenser can operate as a stand-alone machine without the need for an external computer. It is not only easy to install, but also easy to operate.
2. Humanized teaching box program setting
3. The teaching box with graphic key design allows users to easily complete the setting of the dispensing path, and easily complete the matrix copying, offset modification, and correction point setting of various paths. Super functions such as program transfer between different dispensers.
4. Professional 3D arc interpolation control system
5. Equipped with various valve, suitable for various needs of the dispensing industry
6. There is a needle control button on the machine table, no external teaching pendant is required, and it is more convenient to debug than similar products

## Technical Parameter:

Item	Specification and description		
Model No.	T300	T400	T5331
Dimension	L=580mm W=485mm H=650mm	L=680mm W=585mm H=650mm	L=580mm W=750mm H=650mm
Net weight	35kg	40kg	50kg
Maximum Speed (X/Y/Z)	500mm/s(X/Y);300mm/s(Z)		
Repeatability	±0.05mm		
Position accuracy	±0.05mm		
Z maximum load	10kg		
Orbit parallelism	± 0.5mm		
Distance Range	X:300Y:300Z:100(mm)	X:400 Y: 400 Z:100(mm)	X:500Y1:300Y2:300Z:100(mm)
drive mode	Transmission mode Stepper motor + synchronous belt + linear slide		
IO	8 input 8 output		
Program storage	128M		
Programming	Handheld editor		
Power	AC220V/50HZ/0.5KW		
Environment	- 20 degrees to 40 degrees; relative humidity 20%-90%		

## Piezo valve



### Application:

- Underfill
- Precision Coating
- Surface Mounted Package
- Encapsulation
- Pin Encapsulation
- Bonding
- POP(Package On Package)

### Structure specification:

Dimension	Net weight	Glue inlet	The material of parts in contact with glue	Material of striker
99×78×37.5 (mm)	350g	SS connector	SUS304	Tungsten steel/ceramic
Heating range	Heating power	Fluid seal	Drive mode	Maerial of Nozzle
Room temperature to 180°C	80 W	PEEK/PE/PTFE	Piezoelectric	Tungsten steel/ceramic
Minimum dot size	Maximum dispensing frequency	Adaptable glue type	Temperature environment	
3NL	500HZ	Adhesives, lubricants, water solvents, etc.	0-45°	

### Product advantages:

1. Piezoelectric principle, high jetting frequency, can achieve up to 500 dots/second and minimum dot diameter of 0.2mm.
2. The unique spray head, flow channel and constant temperature system for material supply ensure that the viscosity of the glue is not affected by temperature and maintains ultra-high consistency.
3. High-precision nozzle and precise structure design, small stroke and strong spraying force. Extremely easy-to-remove clean fluid body assembly for quick maintenance, reducing downtime.
4. For low to high viscosity fluids, and hot melt adhesives, modular switching provides flexibility to meet changing dispensing needs.

## Piezo Valve Controller



### Application:

- Underfill
- Precision Coating
- Surface Mounted Package
- Encapsulation
- Pin Encapsulation
- Bonding
- POP(Package On Package)

### Structure specification:

Dimension	Net weight	Max frequency	Working power	Highest output
173*89*110mm	1.6Kg	1KHZ	100V~230V	200W
Heating range	Protocol	Needle 180° heating	Syringe 180° heating	Heating precision
24V	MODBUS-RTU	Four-pin aviation plug	Five-pin aviation plug	±1°C

### Product advantages:

1. OLED display, integrated dual heater, MODBUS-RTU communication protocol, speed up to 1KHz.
2. The compact integrated design minimizes customer costs.
3. The controller is ultra-thin and compact, does not take up space, and is easy to operate.
4. The needle heating module precisely controls the temperature, and the heating temperature can reach 180 °C.
5. The heating module of the syringe barrel has better thermal insulation, and a special high-separation thermal material is used outside the barrel to prevent burns.

## Single liquid screw valve



### Principle:

The structure is combined with rotor and the stator. The liquid in the closed space is transported forward by the rotor rotation. When the rotor rotates continuously in the stator cavity, it moves smoothly and uniformly from the suction end of the pump to the discharge end due to the action of pressure, thus completing the stable delivery of the liquid medium.

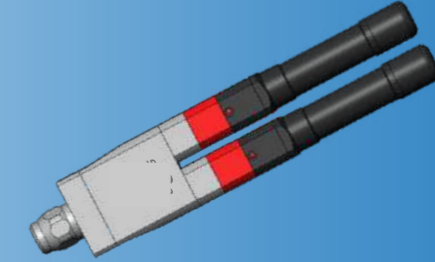
### Specification:

Item	PCS-015	PCS-050	PCS-150	PCS-500	PCS-1500	PCS-2000
Dimension	30 × 30×L255	30×30×L270	30×30× L280	30×30×L280	45× 45×L430	60× 60×L580
Weight	450g	480g	500g	530g	2.5kg	3.5kg
Viscosity	0-500,000cps	0-500,000cps	0-500,000cps	0-500,000cps	0-500,000cps	0-500,000cps
Glue volume per rotation	0.015ml	0.05ml	0.15ml	0.50ml	1.5ml	2.0ml
Glue speed (MAX)	1.8ml/min	6.0ml/min	20ml/min	60ml/min	225ml/min	300ml/min
Maximum input pressure	0-6kgf/cm <sup>2</sup>					
Maximum output pressure	20kgf/cm <sup>2</sup>					
Speed (rpm)	1-120rpm			0-150rpm		
Precision control	1%					
Stator material	Ceramics					
Contact glue material	SUS/PE/FKM					
Ambient temperature	0-40°C					

### Features:

1. Output flow Constantly, smoothly, pulsation-free and low shear.
2. Accurate measurement, flow error <1%, repeatability >99%
3. Especially suitable for various ultra-micro flow occasions, the minimum trace amount can reach 0.001ml
4. Suitable for all kinds of high viscosity, high solid granular fluids, the highest viscosity can reach 8,000,000cps
5. The output flow is proportional to the rotational speed, and is not affected by changes in external conditions such as medium viscosity, pressure, and temperature.
6. The forward and reverse rotation can be adjusted freely, which perfectly avoids liquid dripping, drawing and other phenomena.
7. Simple structure, easy to disassemble, easy to clean, easy to assemble

## Dual liquid screw valve



### Principle:

The structure is combined with rotor and the stator. The liquid in the closed space is transported forward by the rotor rotation. When the rotor rotates continuously in the stator cavity, it moves smoothly and uniformly from the suction end of the pump to the discharge end due to the action of pressure, thus completing the stable delivery of the liquid medium.

### Specification:

Item	PCD-015	PCD-050	PCD-150	PCD-500	PCD-1500	PCD-2000
Dimension	30 × 60×L275	30×60×L290	30×60× L300	30×60×L300	45× 90×L550	60× 120×L720
weight	1000g	1050g	1100g	1100g	5.2kg	7.5kg
viscosity	0-500,000cps	0-500,000cps	0-500,000cps	0-500,000cps	0-500,000cps	0-500,000cps
glue volume per rotation	0.015ml	0.05ml	0.15ml	0.50ml	1.5ml	2.0ml
Glue speed (MAX)	1.8ml/min	6.0ml/min	20ml/min	60ml/min	225ml/min	300ml/min
maximum input pressure	0-6kgf/cm <sup>2</sup>					
Maximum output pressure	20kgf/cm <sup>2</sup>					
Speed (rpm)	1-120rpm				0-150rpm	
Precision control	1%					
Stator material	ceramics					
Contact glue material	SUS/PE/FKM					
ambient temperature	0-40°C					

### Features:

1. Output flow constantly, smoothly, pulsation-free and low shear
2. Accurate measurement, flow error <1%, repeatability >99%
3. The ratio can be adjusted by adjusting the motor speed, from 1 : 1 to 10 : 1 (select the corresponding valve body according to specific requirements)
4. Applicable to various ultra-micro flow occasions, the minimum trace amount can reach 0.001ml
5. Suitable for all kinds of high viscosity, high solid granular fluids, the highest viscosity can reach 8,000,000cps
6. The output flow is proportional to the rotational speed, and is not affected by changes in external conditions such as medium viscosity, pressure, and temperature.
7. Through the opening and closing valve, the phenomenon of liquid dripping and wire drawing is perfectly avoided.
8. Simple structure, easy to disassemble, easy to clean, easy to assemble

# Triaxial coating machine

CM-460 three-axis selective surface coating equipment is a high-performance coating system, suitable for multi-industry coating applications with a variety of valve configurations. It can automatically match different valves for coating according to different process requirements. It can meet multi-paneling requirements.



## Application:

- Home appliance control panel
- Industrial Equipment Control Board
- Solar panel
- Car electronic control board
- Battery protection board
- Motor control board
- Instrumentation circuit board
- Consumer Electronics Control Board

## Features:

1. Adopt computer + motion controller, WINDOWS operating system, fault sound and light alarm and menu display
2. The programming adopts manual teaching and can operate easily
3. Integral steel motion platform for smooth operation
4. X, Y, Z, axis motion is driven by servo motor + ball screw, and running accuracy is 0.02mm
5. With sliding rail + ball screw width adjustment mechanism to ensure that the conveying rails are parallel to each other, and auto point control which is easily adjust.
6. The transmission chain is driven by double stepper motors and has a chain guard structure.
7. Special aluminum alloy track and stainless steel conveyor chain
8. The coating valve can be selected according to the requirements, and one machine can be equipped with 1 to 4 valves, which can be switched arbitrarily according to the production needs; the single air pipe intake enhances the performance and appearance; the speed, height and Valve delay time can be set individually for each glue track;
9. The valve with automatic cleaning function;
10. It has the function of automatic reset and calibration during operation to ensure the operation accuracy;
11. Equipped with paint container, using constant current and constant pressure output to ensure uniform flow;
12. Optional metering pump feeding method ensures paint delivery, and the flow rate is 100% accurate
13. Equipped with exhaust vents
14. Equipped with SMEMA interface
15. Communicate with other devices through the network port
16. The MES system can be established according to the requirements (optional)

## Technical Parameter:

Item	Technical parameters and description	Item	Technical parameters and description
Model	CM-460	Transfer speed	0 -13m/min
Dimensions	W1000mm * L1200mm *H1700mm	Conveyor	Special aluminum alloy track + stainless steel chain
Weight	500kg	AM mode	Electric AM + Ball Screw
Control method	IPC + sports card	AM speed	250mm/min
Software	Sanco software + Windows system	PCB edge space	≥5mm
Programmatically	Teaching / keyboard and mouse cover	Communication port	SMEMA connector
Number of spindles	X Y Z	Single coating width	2-30mm
Spindle drive	Servo motor + ball screw	Equipment air pressure	0.5 Mpa
Coating stroke	X: 46.0mm Y: 46.0mm	Exhaust air volume requirements	15m <sup>3</sup> /min
Maximum movement speed	800mm/sec	Device power	AC220V 50 60HZ
Component maximum height	Conveying surface 90mm, bottom 50mm	Total equipment power	2.2kw
Repeatability	0.02mm	Standard features	LED UV detection light
Number of tracks	1		LED lighting
Working direction	Left→right (standard) Right→left		Waste liquid recovery
Conveying height	900±20mm		Electrostatic interface

## List of main accessories:

Serial number	Product name	Quantity	Manufacturer	Brand
1	Coating valve	1	Sanco	China
2	Dispensing valve	1	Sanco	China
3	Photoelectric sensor	3	Matsushita	Japan
4	Servo motor	3	Mitsubishi /Panasonic/Nidec	Japan
5	Stepper motor	3	Leadshine	China
6	Industrial computer	1	Advantech /EVOC	China
7	LCD Monitor	1	Lenovo/AOC/dell	China
8	Motion control card	1	Z motion	China
9	Screw module	5	Hiwin	Taiwan
10	Guide	6	Hiwin	Taiwan
11	The electromagnetic valve	8	SMC	Japan
12	Precision pressure regulator	2	SMC	Japan
13	Cylinder	6	AirTAC	Taiwan
14	Air source treatment components	1	AirTAC	Taiwan
15	Power supply	1	Meanwell	Taiwan



## COATING MACHINE ▼

# Four axial coating machine

CM-460F four-axis selective surface coating equipment is a high-performance coating system, which can meet the multi-directional and multi-angle spraying process, and solve the problem of four-corner spraying of high parts. It can be suitable for the spraying requirements of various complex parts



### Application:

- Home appliance control panel
- Industrial Equipment Control Board
- Solar panel
- Car electronic control board
- Battery protection board
- Motor control board
- Instrumentation circuit board
- Consumer Electronics Control Board

### Features:

1. Adopt computer + motion controller, WINDOWS operating system, fault sound and light alarm and menu display
2. The programming adopts manual teaching and can operate easily
3. Integral steel motion platform for smooth operation
4. X, Y, Z, axis motion is driven by servo motor + ball screw, and running accuracy is 0.02mm
5. With sliding rail + ball screw width adjustment mechanism to ensure that the conveying rails are parallel to each other and auto point control which is easily to trim.
6. The transmission chain is driven by double stepper motors and has a chain guard structure.
7. Special aluminum alloy track and stainless steel conveyor chain
8. The coating valve can be selected according to the requirements, such as Dispensing valve, conical atomizing valve, fan valve, water curtain valve.
9. Equipped with a five-axis motion system with valve rotated at 360 degree and tilted freely that can realize no dead angle spraying in any corners.
10. Valve with automatic cleaning
11. It has the function of automatic reset and calibration during operation to ensure the operation accuracy;
12. Equipped with paint container, using constant current and constant pressure output to ensure uniform flow;
13. Optional metering pump feeding method ensures paint delivery, and the flow rate is 100% accurate
14. Equipped with exhaust vents
15. Equipped with SMEMA interface
16. Communicate with other devices through the network port
17. The MES system can be established according to the requirements (optional)

### Technical Parameter:

Item	Technical parameters and description	Item	Technical parameters and description
Model	CM-460F	Working direction	■Left→right (standard) Right →left
Dimensions	W1000mm * L1200mm *H1700mm	Conveying height	900±20mm
Weight	500kg	Transfer speed	0 -13m/min
Control method	IPC + sports card	Conveyor track	Special aluminum alloy track + stainless steel chain
Software	Sanco software+ Windows systems	AM mode	Electric AM + Ball Screw
Programmatically	Teaching / keyboard and mouse cover	AM speed	250mm/min
Number of spindles	X Y Z R	PCB edge space	≥5mm
Spindle drive	Servo motor + ball screw	Communication port	SMEMA connector
R-axis drive	Servo motor + timing belt	Single coating width	2~30mm
Coating Area	X: 460mm Y: 460mm	Equipment air pressure	0.5 Mpa
Rotating angle	360 degree arbitrary rotation	Exhaust air volume requirements	More than 15m <sup>3</sup> /min
Repeating Precision of R	0.01°	Input voltage	AC220V 50~60HZ
Incline angle	Less than 35 degrees	Total Power	2.2kw
Maximum movement speed	800mm/sec	Standard features	LED UV detection light
Component maximum height	Conveying surface 90mm, bottom 50mm		LED lighting
Repeatability	0.02mm		Waste liquid recovery
Number of tracks	1		Electrostatic interface

### List of main accessories:

Serial number	Product name	quantity	manufacturer	brand
1	Coating valve	1	Sanco	China
2	Dispensing valve	1	Sanco	China
3	Photoelectric sensor	3	Matsushita	Japan
4	Servo motor	4	Mitsubishi /Panasonic/Nedic	Japan
5	Stepper motor	3	Leadshine	China
6	Industrial computer	1	Advantech /EVOC	China
7	LCD Monitor	1	Lenovo/AOC/dell	China
8	Motion control card	1	Z motion	China
9	Screw module	5	Hiwin	Taiwan
10	Guide Rail	6	Hiwin	Taiwan
11	The electromagnetic valve	13	SMC	Japan
12	Precision pressure regulator	2	SMC	Japan
13	Cylinder	9	AirTAC	Taiwan
14	Air source treatment components	1	AirTAC	Taiwan

# Coating machine for whole board

CM-460S is whole board coating equipment which is a cost-effective equipment, specially developed for products that need to be coated on the entire surface of the PCB board.



## Application:

- Home appliance control panel
- Industrial Equipment Control Board
- Solar panel
- Car electronic control board
- Battery protection board
- Motor control board
- Instrumentation circuit board
- Consumer Electronics Control Board

## Features:

1. Adopting overall rigid motion platform to ensure the operation stability of machine.
2. Professional motion control and high-quality module structure have laid a solid foundation for high-load and high-precision operation
3. Software with independent intellectual property rights, friendly man-machine interface, easy for beginners to operate
4. Strong process control capability ensures high quality of potting machine.
5. Low pressure atomization, neat boundary, reduce pollution
6. Constant pressure feeding system ensures stable feeding
7. Automatic cleaning device for valve

## Parameters

Coating parameters	Coating range	MAX:W460mm
	Component maximum height	70mm
	PCB board edge	≥3mm
Motion mechanism	Number of valve bodies	Configure a large atomizing valve
	Positioning accuracy	0.05mm
	Repeatability	0.05mm
	Y max speed	1800mm/s
	Y drive mode	Servo motor + synchronous belt
Conveying unit	Up and down movement	slide cylinder
	Working direction	Left→Right (Standard) Right→Left (Optional)
	Conveyor line height	900mm ± 20mm
	Width adjustment	Manual width trim
	Width range	50mm--460mm
Control and operating system	Transfer speed	10mm/s--300mm/s
	Control method	PLC
	Programmatically	Touch screen
Auxiliary part	Software	Sanco
	Raw material barrel volume	300ml (standard) 20L/10L glue supply pressure barrel (optional)
	Cleaning bucket	500mL
	Cleaning function	With cleaning function
Space requirements	Lighting	The machine with a white light and a purple light
	Dimensions	L760mm*W1040mm*H11620mm
	Equipment weight	280kg
	Equipment air pressure	≥.4MP
	Equipment power	0.8KW
	Input voltage	AC220V 50/60HZ

## List of main accessories:

Serial number	Product name	Quantity	Manufacturer	Brand
1	Coating valve	1	Sanco	China
2	Photoelectric sensor	3	Panasonic	Japan
3	Servo motor	1	Mitsubishi /Panasonic/Nidec	Japan
4	Stepper motor	3	Leadshine	China
5	PLC	1	Panasonic	China
6	Touch screen	1	Xinje/Weinview	China
7	Screw module	2	Hiwin	Taiwan
8	Guide rail	4	Hiwin	Taiwan
9	The electromagnetic valve	7	SMC	Japan
10	Precision pressure regulator	1	SMC	Japan
11	Cylinder	5	AirTAC	Taiwan
12	Air source treatment components	1	AirTAC	Taiwan

## COATING MACHINE ▼

### SF-073 sector spray valve

The SF-073 fan spray valve adds the forming gas path on the basis of the LF-001 conical spray valve. The taper is shaped into a fan, so that the efficiency of large area coating is higher. Suitable for spraying multi-state fluids. For example: acrylic acid, silicon, epoxy, UV glue and other surface

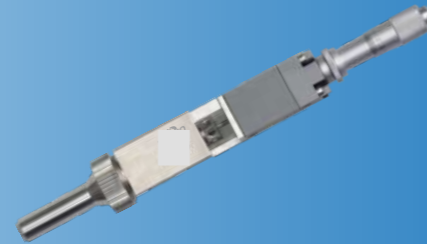


#### Product characteristics:

- Outstanding needle design, truly zero residue, easy to clean, no need to dismantle solvent coating
- The thickness of coatings can reach 10-200 microns, 100% solid coatings can reach 10-200 microns and 100% solid coatings
- Thickness can be up to 100-200 micron liquid volume and air pressure can be arbitrarily adjusted to meet the perfect atomization effect of a variety of coatings
- Single coating width: 15-30 mm
- Sprayable in the Viscosity Range of 30-3500 mpa/s

### LF-001 conical spray valve

LF-001 provides linear, single filament and atomization operation modes, which are very suitable for point coating, wide pattern and thin structure applications.

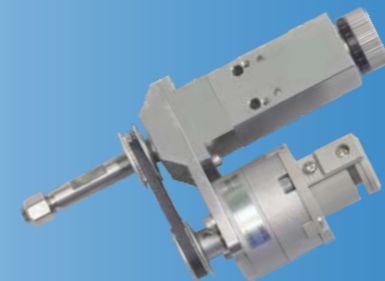


#### Product characteristics:

- Linear: Material flow is applied to areas on board that are very uncoated or forbidden, or additional materials are required.
- To protect the location of high impedance region. Linear coating can also be used as a single coating for a single test point or component.
- Point instructions.
- Single filament: The single filament type is very suitable for distributing the width of the pattern, and can maintain good edge sharpness.
- At the same time, shorten the cycle time.
- Atomization: The mode is very suitable for applications requiring medium selective coatings and film construction. Spraying can be done in the range of 30-3500 mpa/s viscosity.
- Material, single coating width 5-10 .

### BF-028 film spray valve

The BF-028 film spray valve will directly coat the coating into a fan-shaped film, which is a non atomized film. It solves the problems of atomization, drift and flocculation of quick-drying glue, and is suitable for the application of surface coating materials with viscosity less than 100 cm.

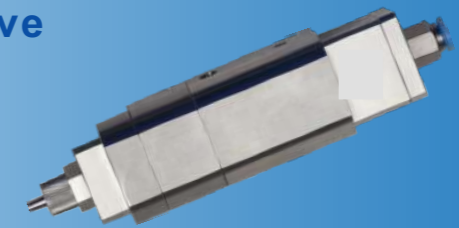


#### Product characteristics:

- Accurate edge location through accurate and selective material applications
- Maximum coating speed and multi-function to effectively increase production
- Variable Mode Width Provides Choice Diversity
- Effective enhancement of process control through optional closed-loop fan mode control
- Select nozzles suitable for multi-process optimization to maximize flexibility

### G-300HP high pressure valve

G-300HP is a rubber valve suitable for dispensing and filling of medium and high viscosity fluids. The unique structure design of stainless steel balance shaft ensures the stability of dispensing under high pressure. The valve has the function of backdraft adjustment, which can effectively adjust the rubber breaking effect at the end of the rubber strip, ensure the needle nozzle rubber breaking clean and fast, and ensure the consistency of the rubber strip.



#### Product characteristics:

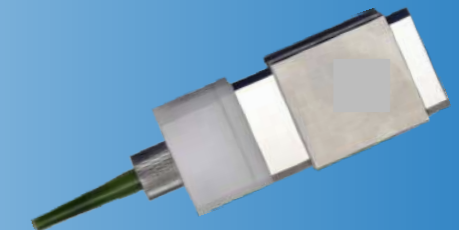
- Adjustable Backdraft and controllable glue content at the beginning and end
- It has the function of Backdraft and breaks off glue cleanly.
- All stainless steel structure, strong and durable
- Double air circuit design, quick interruption
- Simple maintenance

#### Suitable for fluids:

- Lubricating grease
- Grease
- RTV silica gel
- epoxy resin
- Brazing paste

### G-500HP Diaphragm valve

G-500P is a micro-dispensing valve suitable for medium and low viscosity range. The diaphragm is made of strong Teflon material (PTFE), which completely separates the fluid tank from the starting parts. It is exquisite and durable. It has good chemical inertia, wear resistance, impact resistance and corrosion resistance. It is especially suitable for precise dispensing of special chemical materials such as instant drying gum, anaerobic gum and medical reagent.



#### Product characteristics:

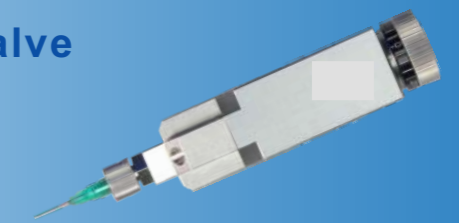
- Strong chemical inertia
- Handle many special materials
- Glue clean
- Simple maintenance

#### Suitable for fluids:

- Instant adhesive
- Anaerobic adhesive
- Medical reagent
- Special chemical materials

### G-420A Precision striker valve

G-420A is a micro-dispensing valve suitable for low viscosity fluids. It can obtain very small and high consistency dispensing through stroke adjustment.



#### Product characteristics:

- Disposable small size dispensing up to 0.18mm
- Not affected by bubbles in fluids
- Flow adjustable
- No Residual Glue in Rubber Valve
- Glue clean
- Simple maintenance

#### Suitable for fluids:

- UV glue ink reagent
- Solvent Silicone Oil Adhesive



# Inline potting machine

PM-500S has obvious cost-effective advantages in two-component inline potting machine equipment. The design is simple and suitable for the potting of multi-specification products. To ensure the system stable and reliable, the XYZ three-axis motion modules are assembled with high-precision ball screws and servo motors and configure with a simple and friendly human-computer interface. The assembly line is assembled with a 2.5 times speed chain.

## Application:

- Two-component epoxy resin
- Two-component polyurethane
- Two-component silicone

## Features:

1. Adopting overall rigid motion platform to ensure the operation stability of machine.
2. Professional motion control and high-quality module structure have laid a solid foundation for high-load and high-precision operation
3. Software with independent intellectual property rights, friendly man-machine interface, easy for beginners to operate
4. Strong process control capability ensures high quality of potting machine.
5. Support visual programming and manual trial teaching
6. Automatic cleaning device for valve
7. Equipped with standard SMEA interface which is easy communication with other devices
8. QR code, barcode scanning, automatic program calling, foolproof, data statistics and other functions to achieve intelligent manufacturing

## Technical Parameter:

Glue potting parameters	Potting range	MAX L 45 0mm*W 45 0mm
	Metering Pump	Screw pump or gear pump(Optional)
	Metering drive	Stepper motor (servo motor drive optional)
	Raw material tank	5L, 15L, 30L, 60L optional
	Liquid level alarm	German WIKA liquid level sensor
	Pressure detection	German WIKA pressure sensor (optional)
	Glue control accuracy	± 1%
	Proportioning accuracy	±3 %
	Glue control speed	0.5g/s---20g/s
	Scale range	100:100---100:10
Motion mechanism	Fixture edge	more than 15mm
	Positioning accuracy	0.02mm
	Repeatability	0.01mm
	X, Y maximum speed	1000mm/s
	X, Y drive mode	Servo motor + screw module
	Z Max speed	500mm/s
Conveying unit	Z drive mode	Servo motor + screw module
	Working direction	Left→Right (Standard) Right→Left (Optional)
	Conveyor line height	900mm ± 20mm
	Width adjustment	Electric automatic width adjustment
	Width range	150mm→450mm
control and operating system	Transfer speed	10m m/s --300m m/s
	Control method	PLC + motion control card
	Programming mode	Manual teaching
	Software	Sanco
Space requirements	Communication port	Standard SMEMA Interface
	Dimensions	L1 65 0mm*W1 15 0mm*H1700mm
	Equipment weight	660kg
	Equipment air pressure	≥0.4MP
	Equipment power	2.2KW
	Device power	AC220V 50/60HZ



# Offline potting machine

PM-500F has obvious cost-effective advantages in two-component offline potting machine equipment. The design is simple and suitable for the potting of multi-specification products. To ensure the system stable and reliable, the XYZ three-axis motion modules are assembled with high-precision ball screws and servo motors and configure with a simple and friendly human-computer interface.



## Application:

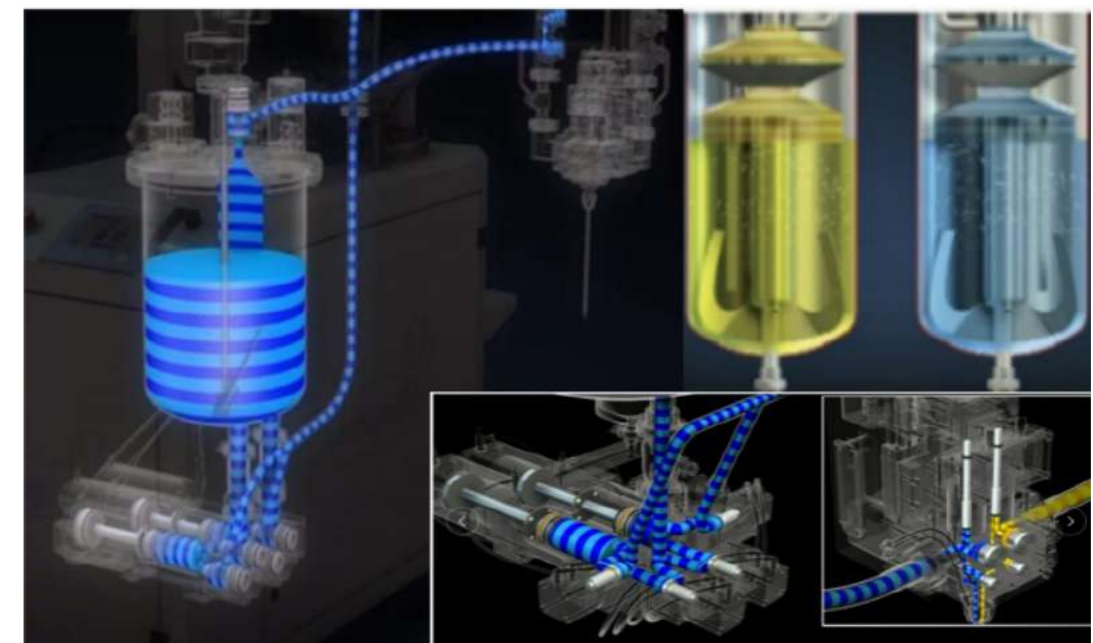
- Two-component epoxy resin
- Two-component polyurethane
- Two-component silicone

## Features:

1. Adopting overall rigid motion platform to ensure the operation stability of machine.
2. Professional motion control and high-quality module structure have laid a solid foundation for high-load and high-precision operation
3. Software with independent intellectual property rights, friendly man-machine interface, easy for beginners to operate
4. Strong process control capability ensures high quality of potting machine.
5. Support visual programming and manual trial teaching
6. Automatic cleaning device for valve
7. Equipped with standard SMEA interface which is easy communication with other devices
8. QR code, barcode scanning, automatic program calling, foolproof, data statistics and other functions to achieve intelligent manufacturing

## Technical Parameter:

Glue potting parameters	Potting range	MAX L 45 0mm*W 45 0mm
	Metering Pump	Screw pump or gear pump(Optional)
	Metering drive	Stepper motor (servo motor drive optional)
	Raw material tank	5L, 15L, 30L, 60L optional
	Liquid level alarm	German WIKA liquid level sensor
	Pressure detection	German WIKA pressure sensor (optional)
	Glue control accuracy	± 1%
	Proportioning accuracy	±3 %
	Glue control speed	0.5g/s----20g/s
	Scale range	100:100---100:10
Motion mechanism	Fixture edge	More than 15mm
	Positioning accuracy	0.02mm
	Repeatability	0.01mm
	X, Y maximum speed	1000mm/s
	X, Y drive mode	Servo motor + screw module
	Z Max speed	500mm/s
	Z drive mode	Servo motor + screw module
Control and operating system	Control method	PLC + motion control card
	Programming mode	Manual teaching
	Software	Self-developed products by Sanco
	Communication port	Standard SMEMA Interface
Space requirements	Dimensions	L 800mm*W 600mm*H1700mm
	Equipment weight	450kg
	Equipment air pressure	≥0.4MP
	Equipment power	2.2KW
	Device power	AC220V 50/60HZ



# Vacuum potting machine

The vacuum potting machine is a product that requires the filling and sealing operation in a vacuum environment. It only needs to manually put the product into the jig manually, and it enter the vacuum box automatically , the sealing door is automatically closed to create vacuum, and the automatic proportioning and quantitative filling is performed in a vacuum environment; This equipment mainly solves the problem of bubbles after the product is cured.



## Features:

1. Genuine Windows system, easy to learn and understand;
2. Sanco's unique control software not only move plane trajectories such as points, lines, circles, arcs, etc., but also complete advanced functions such as three-dimensional gluing through program editing;
3. On-line rail conveying, which can be connected to equipment such as connecting table and curing furnace, and fully automatic assembly line type vacuum environment potting operation;
4. The vacuum pump imported from Germany has fast pumping speed, low noise, high sealing performance of the vacuum box, and the vacuum degree can be adjusted independently to ensure that the product has no bubbles;
5. The second-level valve is adopted, and the glue discharge head does not drip or leak glue in a vacuum environment;
6. Fully automatic cleaning, cleaning the valve and mixing part, the operation is simple and convenient;
7. It can carry out automatic proportioning of two-component glue, and the proportion can be adjusted by software;
8. Automatic mixing, abnormal rotation of stirring core;
9. With vacuum feeding, vacuum defoaming, stirring, heating, liquid level detection and other functions.

## Technical Parameter:

Glue potting parameters	Potting range	MAX L 300mm*W 300mm
	Metering Pump	Screw pump or gear pump(Optional)
	Metering drive	Stepper motor (servo motor drive optional)
	Raw material tank	5L, 15L, 30L, 60L optional
	Liquid level alarm	German WIKA liquid level sensor
	Pressure detection	German WIKA pressure sensor (optional)
	Glue control accuracy	±1%
	Proportioning accuracy	±3 %
	glue control speed	0.5g/s----20g/sq
	Scale range	100:100---100:10
Motion mechanism	Fixture edge	more than 15mm
	Positioning accuracy	0.02mm
	Repeatability	0.01mm
	X, Y maximum speed	1000mm/s
	X, Y drive mode	Servo motor + screw module
	Z Max speed	500mm/s
Vacuum unit	Z drive mode	Servo motor + screw module
	Ultimate vacuum level of vacuum box	2mbar
	Ultimate vacuum level of raw material tank	
	Vacuum pump flow	100m³/h (According to the actual requirement)
Vacuum pump type	Single stage rotary vane vacuum pump (Double stage rotary optical)	
Conveying unit	working direction	L→R (Standard) R→L(Optional)
	conveyor line height	900mm ± 20mm
	Width adjustment	Electric automatic width adjustment
	Width range	150mm→450mm
	transfer speed	10m m/s --300m m/s
control and operating system	control method	PLC + motion control card
	Programming mode	Manual teaching
	Software	Self-developed products by Sacno
Space requirements	Communication port	Standard SMEMA Interface
	Dimensions	L1 65 0mm*W1 15 0mm*H1700mm
	Equipment weight	660kg
	Equipment air pressure	≥0.4MP
	Equipment power	2.2KW
	Device power	AC220V 50/60HZ

# Potting machine

Pm3030 double-liquid potting equipment is controlled by motor metering pump, PLC program and mainly used for automatic mixing and quantitative potting of two-component glue



## Technical Parameter:

Glue potting parameters	Metering Pump	Screw pump or gear pump(Optional)
	Metering drive	Stepper motor (servo motor drive optional)
	Raw material tank	5L, 15L, 30L, 60L optional
	Liquid level alarm	German WIKA liquid level sensor
	Pressure detection	German WIKA pressure sensor (optional)
	Glue control accuracy	± 1%
	Proportioning accuracy	±3 %
	Glue control speed	0.5g/s----20g/s
	Scale range	100:100---100:10
Control and operating system	Control method	PLC + motion control card
	Programming mode	Manual teaching
	Software	Self-developed products by Sanco
	Communication port	Standard SMEMA Interface
Space requirements	Dimensions	L 600mm*W 1200mm*H1500mm
	Equipment weight	150kg
	Equipment air pressure	≥0.4MP
	Equipment power	2.2KW
	Device power	AC220V 50/60HZ

## 660D Two-fluid dynamic valve

G-660DS dynamic mixing valve is a high-speed dynamic mixing system developed for high mixing ratio two-component glue. It is suitable for medium and low viscosity fluids. Its unique structure design ensures that the main agent and curing agent are fully mixed in the mixing chamber, and that the breaking glue is clean and leaky. It is suitable for dotting, marking and filling processes.



### Characteristics and advantages:

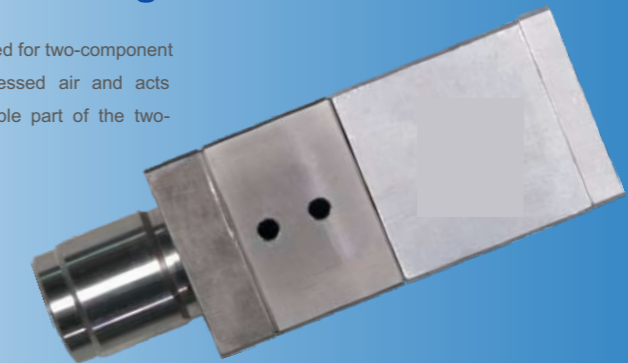
- Double air control, pressure balanced spool design, can work at 3000PSI pressure
- High Speed Rotation of Stirring Blade Driven by Servo Motor for Double-liquid Mixing
- It can also be used with Sanco double liquid filling equipment as precise metering mixing.

### Applications:

- Adhesive Sealing Coating for Filling and Foaming Molding Structure in Situ

## 660S Two-fluid Switching valve

G-660D is a switching valve specially designed for two-component potting system. It is controlled by compressed air and acts sensitively and quickly. It is an indispensable part of the two-component dispensing system.



### Product characteristics:

- Double air control, pressure balanced spool design, can work at 3000PSI pressure
- Direct mixing through feeding system under the condition of low mixing accuracy requirement
- Use Sanco double-liquid glue filling equipment as precise metering mixing

### Suitable for fluids:

- Adhesive Sealing Coating for Filling and Foaming Molding Structure in Situ

## IR Curing oven



### Features:

1. Process for fully satisfying various heat curing glues
2. PLC+PID closed-loop control system, stable and reliable performance, high temperature control accuracy
3. Fully modular design, convenient and fast maintenance, reducing maintenance and cost
4. The rail was especially hardened for durability
5. New insulation technology, the new furnace design ensures that the temperature difference between the furnace temperature and the room temperature is less than 10 degrees.

### Equipment parameters:

Type	IR-2000	IR-3000
Dimensions	2000x1160x1300mm LxWxH	3000x1160x1300mm LxWxH
Control System	PLC+ touch screen	PLC+ touch screen
Working height	900±20mm	900±20mm
Delivery method	Rail + Chain	Rail + Chain
Amplitude modulation method	Manual	Manual
Widening Adjustment range	50-460mm	50-460mm
Transfer speed	0-3m/min	0-3m/min
Transfer direction	L-R(R-L)	L-R(R-L)
Number of temperature zones	3	4
Temperature range	Room temperature -150	Room temperature -150°C
Temperature control accuracy	±3°C	3°C
Power supply Voltage	Three phase 380V,8A	Three phase 380V,8A
Total power	Max:10KW	Max:15KW

## UV Curing Oven



This UV curing device is composed of several parts such as rack carrier, conveying system, UV curing, electric box and control system.

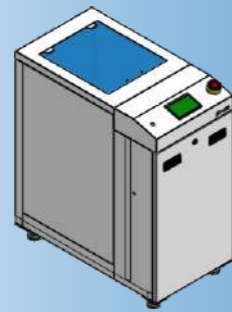
It is a device specially designed for UV curing of coatings such as conformal paint.

### Technical Parameter:

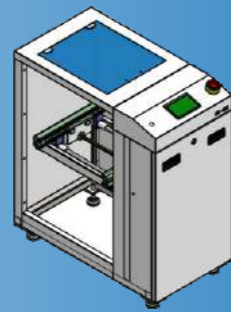
Dimensions	Length 1500mm*1050mm*1540mm (including casters, excluding three colors light)
Control method	PLC+touch screen control
PCB height	900±20mm
Delivery method	Customized hard and hard aluminum alloy track + stainless steel chain
Track length	1530mm (the inlet and outlet extend 15mm each)
Track load	Stainless steel wear strip support 5KG/m evenly distributed
Shipping speed	The governor adjusts 0.5-3.5M/min
Transmission direction	left-right or right-left
Transmission motor power	AC220V 120W
PCB width	Maximum width 450mm
Plug-in spacing adjustment method	Manual adjustment
Number of UV tubes	1 set of light sources
UV light source power	5.6KW/pc
UV light source type	Mercury lamp, wavelength: 200-400nm; main peak: 365nm; power: steplessly adjustable.
Lamp replacement cycle	800H
Equipment ventilation	One ø150mm air outlet
Exhaust volume requirements	1500 cubic meters/H
PCB board size	W450mm*L450mm
PCB board components over-board height	±100mm
Equipment net weight	410KG
Power supply	AC380V 50Hz three-phase five-wire system
Total power	7KW



# Lift



Lift (output)



Lift (input)

## Features:

1. Control part: touch screen control , easy to operate ;
2. Rack part: The rack is designed and manufactured with high-grade aluminum profiles sealed with galvanized sheet, which is strong and durable; the sheet metal is finished by electrostatic powder spraying and baking powder, which is beautiful and easy to clean.
3. Conveying part: the power adopts a motor with a gear box, and the conveying speed is 0-6 m/min; the self-developed aluminum conveying line is convenient and beautiful, the conveying method is chain drive, the conveying width can be adjusted manually and the adjustment precision is high. The adjustment range is 50-460mm .

## Equipment parameters:

Body parameters	
Dimensions L*W*H	L 9 00mm*W 50 0mm*H 120 0mm
Weight	Approx.50kg
PCB conveying part	
PCB upper layer transmission height	920±20mm
Transport speed	0-6000mm/min adjustable
Transport track	Special high-strength wear-resistant guide rail
Conveyor chain	Special stainless steel chain
Transmission direction	L→R (R→L)
Lifting part	Motor + screw drive up and down
AM section	
PCB width	50—4 6 0mm
Amplitude modulation method	Automatic adjustment
PCB board size	MAX W4 6 0*L4 6 0
Controlling parts parameters	
Controlling System	PLC+touch screen
Online communication	SMEMA communication interface
Power supply	AC220V
Total power	0.3 KW