

Selective coating machine (UPKTECH-930)

(1) Equipment picture:



(2) Device parameters:

Equipment size L*W*H	L1060mm*W1240mm*H1700mm
Equipment platform	T25mm steel plate ground and chrome plated
Control method	Industrial computer + motion control card
Operation method	Computer control
Programmatically	Manual teaching
Running program storage quantity	More than 1000
PCB transmission height	910±20mm
Transport speed	0-5000mm/min
Conveying method	Chain conveyor (35B 5mm extended pin stainless steel chain)
Transmission motor	2 stepper motors
PCB width range	50-450mm adjustable
Adjustment method	Intelligent electric adjustment
Adjust drive mode	Stepper motor + double precision screw drive
X.Y axis drive method	Servo motor + precision fully enclosed screw module drive
X.Y axis max running speed	800mm/s
X.Y axis repeatability	±0.02mm
Z-axis max running speed	300mm/s
Z-axis drive method	Servo motor + precision fully enclosed screw module drive
Z-axis repeatability	±0.02mm
Valve type	Equipped with 1 precision atomization valve H-905 and 1 striker type dispensing valve H-D01
PCB board size	MAX: L450*W450
PCB board component height	MAX: ±110mm
Atomized spray width	3-10mm

Bucket volume	A 10L stainless steel inner barrel without stirring function + a 2L stainless steel pressure barrel for cleaning
Cleaning function	Equipment comes with cleaning function
lighting part	The device comes with its own lighting source
Detection part	The equipment comes with fluorescent agent detection light source
Equipment weight	Approx.700KG
Device power supply	AC220V 50HZ
Equipment air source	4-6kgf/cm2
Total equipment power	1.8KW

(3) Device functions:

- X, Y, Z 3 axis motion accurately realizes the selective spraying process of various circuit boards to avoid non-coating areas such as connectors.
- It can realize multi-track spraying such as spot coating, linear spraying and curve spraying, and complete the high-density and complex circuit board spraying process.
- It can effectively and evenly coat the edge of the device and eliminate the spray shadow effect.
- Transmission and control system with high speed, high reliability and high stability.
- Able to realize high-density complex circuit board spraying and dispensing processes.
- The equipment has an intelligent electric width adjustment function (input the plate width and it can be adjusted electrically in place)
- Whole line docking: The equipment is equipped with SMT industry standard SMEMA interface, which can be used for signal docking with other equipment.

(4) Configuration list:

No	Name	Brand	Unit	Qty	Usage
1	Servo motor (motor)	Fuji/富士	unit	3	For X/Y/Z axis motion
2	Server Driver	Fuji/富士	unit	3	Drive related axis motor movement
3	Stepper Motor/Driver	STD	unit	3	Transport shaft and modulating shaft motors
4	Switching power supply	Mean well/明纬	unit	2	Equipment weak power supply
5	U-shaped sensor	Omron/欧姆龙	piece	4	Location targeting
6	Photoelectric Sensors	FOTEK/LS61	piece	3	PCBA induction
7	Industrial computer	Advantech/研华	unit	1	Motion control computer

8	Motion control card	HAIPAI	piece	2	Motion control system, independently developed
9	LCD Monitor	DELL/戴尔	unit	1	HMI display
10	Air source processor	AirTAC/亚德克	piece	1	Equipment air source control
11	Slide cylinder	XINCHEN/SMC	piece	2	Glue valve pneumatic component control
12	A pressure (regulating valve)	NNT/XINGCHEN /SMC 同款	piece	1	For air pressure regulation
13	Pressure digital display	NNT/SMC 同款	piece	1	Barometric pressure display
14	Solenoid valve	NNT/SMC 同款	piece	4	Pneumatic component control
15	Pressure switch	AirTAC/亚德克	piece	1	Pressure switch
16	Double rod cylinder	XINCHEN/SMC 同款	piece	2	PCBA board positioning
17	Shut-off valve	XINGCHEN	piece	8	Air pressure control
18	Tracheal joint	XINGCHEN	piece	several	Air line transfer
19	Pressure barrel	HAIPAI customize	set	1	bucket
20	Screw module	HIWIN	set	3	X/Y/Z axis