I C T Group I.C.T-1200 SMT Fully Automatic LED Stencil Printer





I C T Group I.C.T-1200 SMT Fully Automatic LED Stencil **Printer Instruction Manual**

Home » I C T Group » I C T Group I.C.T-1200 SMT Fully Automatic LED Stencil Printer Instruction Manual





Full SMT Factory Solution Partner

Contents

- 1 SMT Fully Automatic LED Stencil Printer I.C.T 1200/1500
 - 1.1 Introduce:
 - 1.2 Printer:
 - 1.3 Features:
 - 1.4 TOP Advantage:
 - 1.5 Option function:
 - 1.6 Materials List:
 - 1.7 Option Item:
 - 1.8 Specification:
 - 1.8.1 Standard Accessories:
 - 1.9 Consumables Spare Parts:
 - 1.10 Dimensions:
- 2 Documents / Resources
 - 2.1 References

SMT Fully Automatic LED Stencil Printer I.C.T 1200/1500



Introduce:

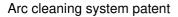
I.C.T-1200/1500 LED is a high precision automatic solder paste printer, designed specifically for led and other large size products. Correspond to industrial 4.0 and MES system. through a higher level of automation, achieve zero defect.

Printer:



In 2021, More than 1900 sets of SMT automatic printing machines were sold. Sales volume SMT industry No.2







Cleaning paper consumption check system patent





Cleaning spray system patent Collision avoidance patent





Dispersing system patent

Fault analysis system patent





Printing accuracy control system patent

Printing process control system patent





Printing quality inspection system patent

Stencil cleaning system patent





Stencil separation speed control system patent

transport patent

Many original patents, For example, cleaning system, dispensing system, then G company copy from I.C.T.

Features:

- 1. High positional accuracy, repeated positioning accuracy ±0.015mm; printing accuracy 0.03mm;
- 2. Support glue printing, automatic control improves production efficiency, quality control and saves production cost;
- 3. Automatic PCB calibration, Squeegee pressure adjustable, Automatic printing, Automatic stencil cleaning;
- 4. Programmable motor controls separation speed and distance among squeegee, stencil and substrate, to

- realize multi-method separation;
- 5. Multi-functional PCB positioning system for convenient and accurate PCB positioning;
- 6. Programmable PCB lifting platform ensure the PCB to lift to a proper height;
- 7. Adopt company independently developed suspended print head with automatic pressure adjustment system. Support on-line real time pressure feedback and automatic squeegee pressure balancing. Accurate pressure control ensures perfect paste forming effect;
- 8. Applicable PCB types: LCD TV, LED, vehicle electronics. besides general electronics products;
- 9. SMEMA standard.

TOP Advantage:

- 1. Simple: Combined with advanced international concepts, based on the Oriental-designed operating system, easy to learn;
- 2. Expertise: Learn imported printer's advanced design concepts, and the machine core components are using imported top brands;
- 3. High Quality: Import hardware configuration, low failure rate in production, more than a decade service life;
- 4. Safety: Based on the general rules of international design, close to imported printer rating, the highest security level;
- 5. Stable: Mature software, hardware and top production processes ensures stability of each equipment.



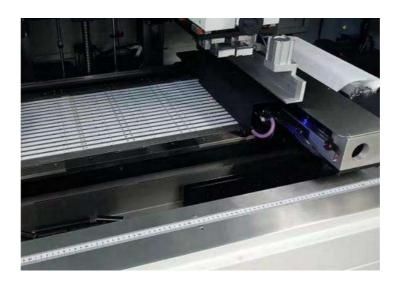
Print system

Arch bridge suspension type direct connection squeegee structure. The squeegee is independently controlled by two high-precision stepping motors to ensure accurate and stable pressure. The double side slide positioning rails ensure the accuracy and stability of the squeegee before and after operation.



Transport system

The unique belt conveyor system can effectively prevent stuck PCB. The motor controls the speed and the stop position is precise. PCB entry and exit directions are freely available. The side clamps and vacuum are used to effectively clamp the PCB to ensure the smooth contact between PCB and stencil.



Vision system

Uniform ring and high brightness coaxial light source. Advanced up and down matching system. Full range light source adjust can identify various types of Mark. Suitable for tin plating, copper plating, tin spraying, FPC and other PCB to ensure high accuracy.



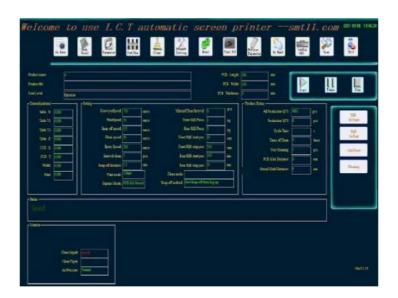
Cleaning system

Dry, wet cleaning, can also be manual cleaning; CCD and cleaning part are designed separately; Unique spray cleaning system, from top to bottom, spray evenly. Software control alcohol and paper consumption, save consumable. Special exhaust motor, vacuum strong and effective.



Platform system

The three axis linkage adjustment system has superb dynamic characteristics and quickly realizes the adjustment of PCB. Drive by direct connection motor, fast and ensure high precision.



Operating System

Windows 10, Friendly MMI interface, teaching and navigation function. Operation log, fault record analysis and other diagnostic functions. New program is controlled within 5-10 minutes.

Option function:



OPC Squeegee

Adjust printing area according to PCB size

No stagnant solder paste, no wastage Best printing quality at all time.



Rubber Squeegee

Provides a rubber squeegee with better printing effect for the red glue process, which improves the quality.



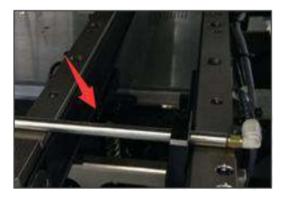
PCB Table Vacuum System

Fixed PCB is more stable, especially suitable for thin PCB and easily deformed PCB.



Auto Glue Dispensing

Program editing, used for component positions required for dispensing, and can also be used for red glue process for dispensing, making dual process possible.



PCB Cleaning Function

Clean the PCB entering the printing machine, clean the dust and other sundries on the surface of the PCB board, improve the printing quality and save costs.



UPS

It can reduce the damage of the machine due to the failure of the power system caused by external reasons, and provide continuous power guarantee for the machine.



Grid-lock Support Block (200*40mm/block)

Provides a convenient printing support system for the production of double-sided PCBs, avoiding damage to the bottom components.



Squeegee Pressure Closed-loop Feedback System

For PCBs with high printing pressure requirements, the printing pressure can be adjusted in real time to ensure the printing quality.



Internal & External Barcode Scanner for PCB Traceability

Automatic design, record printed PCB code, better achieve traceability of machine product quality, and provide quality assurance.

Materials List:

No.	Item	Brand	Original
1	Ball screw	KURODA, REXROTH	Japan, Germany
2	Linear Guideway	IKO, REXROTH	Japan, Germany
3	Servomotor& driver	Panasonic	Japan
4	Sensor	OMRON, LEUCE, KEYENCE	Japan
5	Stepper motor	SANYO, Leadshine	Japan, China
6	Cylinder	SMC, FESTO	Japan, Germany
7	CCD Camera	SENTECH	Japan
8	Software	I.C.T	China
9	Motor	ВРМС	Japan
10	Switch	SMC, IDEC	Japan
11	Bearing	NSK	Japan
12	Soft Cable	IGUS	Germany
13	Tanks chain	IGUS	Germany
14	PC	LENOVO, DELL	China, Germany

Option Item:

No.	Item
1	OPC Squeegee
2	Rubber Squeegee
3	PCB Table Vacuum System
4	Auto Glue Dispensing
5	Squeegee Pressure Closed-loop Feedback System
6	UPS
7	Grid-lock Support Block
8	PCB Cleaning Function
9	Internal & External Barcode Scanner for PCB Traceability
10	Handheld Barcode Scanner
11	AirKnife at the entrance

Specification:

Model	I.C.T-1200	I.C.T-1500
Frame Size(mm)	737*300~1500*750	1100*300~1800*750
Frame Thickness	25~40mm	
PCB Size(mm)	80*50~1200*350	80*50~1500*450
PCB Thickness	0.4~6mm(Program settings, automatic adjustment)	
PCB Warpage	<1%	
Transport Height	900±20mm	
Transport Direction	Left-Right; Right-Left; Left-Left; Right-Right	
Transport Speed	Max 1500mm/s	
Support System	Magnetic Pin/Up-down table adjusted/support block	

Clamping System	Side clamping(vacuum nozzle, Automation retractable Z pressure is option)
Printer Head	Two independent motorized print head
Squeegee Speed	6~200mm/sec
Squeegee Pressure	0~15kg
Squeegee Angle	60°/55°/45°
Squeegee Type	Stainless steel(standard), plastic
Squeegee Size	300&410mm
Release Speed	0.1~20mm/sec
Cleaning System	Dry, Wet(Vacuum is Option)
Table Adjustment Ranges	X: ±10mm; Y: ±10mm; θ: ±2°
Table Adjustment control	Motor
Mark Types	Circle, Triangle, Square, Diamond, Cross
Mark Size	0.5~3.0mm
CCD FOV	8*6mm
Vision Methodology	CCD, Top and Bottom
Repeated Accuracy	±0.015mm(CPK≥2.0)
Printing Accuracy	±0.03mm(CPK≥2.0)

Cycle Time	<15s(Exclude Printing&Cleaning)	<16s(Exclude Printing&Cleaning)
Product Changeover	<5Mins	
New Product Set-up Time	<10Mins	
Air Pressure	4.5~6Kg/cm²	
Power Supply	AC 220±10%, 50/60HZ, 3Kw	
Control Method	PC C	ontrol
Dimension(mm)	L2200*W1200*H1500	L2500*W1200*H1500
Weight	Approx:1500kg	Approx:1800kg

^{*} The data is obtained under ambient temperature of 25°C and humidity of 60%.

Standard Accessories:

No.	Item	Quantity
1	Metal Squeegee	2 set
2	Operation Software	1 set
3	Cleaning Paper	5 roll
4	PCB Support Pin	26 pcs
5	PCB Support Block	6 pcs
6	Mixing knife	1 pcs
7	Fuse	1 pcs
8	Manual	1 book
9	Tool Case	1 set

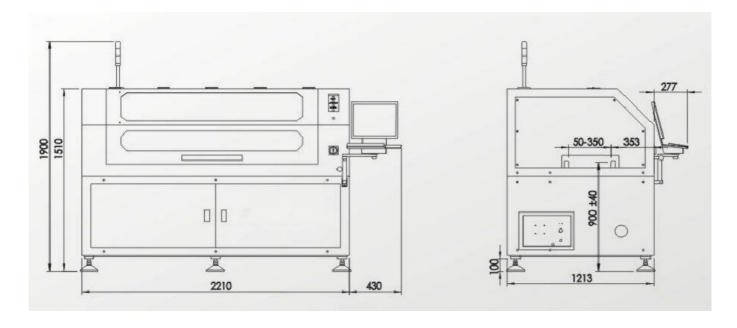
^{*} Attachments may change with product upgrade. If different, please follow the new list.

Consumables Spare Parts:

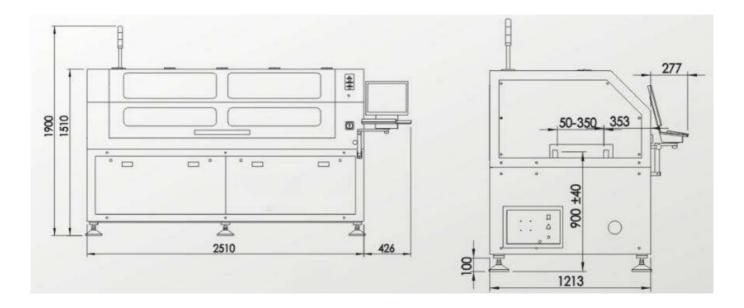
No.	Item	Usually replacement cycle
1	Transport belt	2 years
2	Transport pulley	2 years
3	Shaft limit sensor	1 years
4	Cylinder	2 years
5	Alcohol solenoid valve	1 years
6	Scraper blade	1 month
7	Cleaning paper	1 week

Dimensions:

I.C.T-1200



I.C.T-1500



* I.C.T keeps working on quality and performance, specifications and appearance may be updated without particular notice.

Thanks for choosing I.C.T. I.C.T looks forward to win-win cooperation. Thank you.

I.C.T SMT Fully Automatic Printer 1200/1500 LED Products Introduction | I.C.T Group

Documents / Resources



ICT Group I.C.T-1200 SMT Fully Automatic LED Stencil Printer [pdf] Instruction Manual I.C.T-1200 SMT Fully Automatic LED Stencil Printer, I.C.T-1200, SMT Fully Automatic LED Stencil Printer, Automatic LED Stencil Printer, LED Stencil Printer, Stencil Printer, Printer

References

- PDF Software Online Store | Foxit Software
- User Manual

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