



Semi-Auto Screen Printing Machine User Manual



**Thank you very much for
your choice of our products and
please read this manual carefully before using!**

Warning

- ★. Non-maintenance of the equipment, maintenance staff or untrained staff not qualified to operate the machine at random.
- ★. Before power supply voltage should be re-confirm whether the device operating voltage match.
- ★. The device is heated to high temperatures and transmission equipment, the operation should pay attention to personal safety.

Note

- When you use or operation of this equipment, please carefully read this manual.
- Please save this manual for future maintenance, repair and maintenance use.

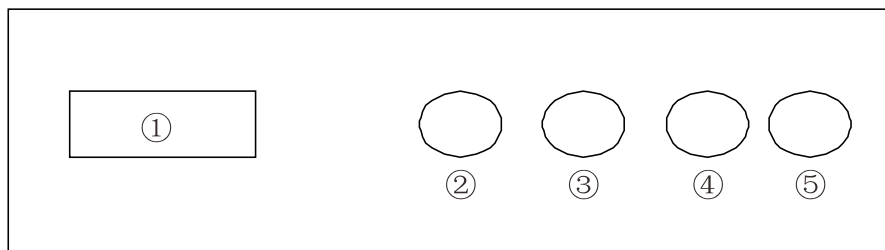
In addition to the equipment inside the box, there are the following accessories. If missing, please notify the Company:

- a wrench
- copper needles 40
- a flat-blade screwdriver
- Manual one
- Hex wrench set
- one Phillips screwdriver
- A tool

I. Equipment introduction

1. The Made In Japan precision Feeder and linearity rail, To ensure the printing of scraper more stable
2. The printing pressure of double scraper separately by the cylinder and the precision throttling valve set up the speed of scraper and avoid resonance.
3. The printing block is lift upward for 45 degrees and fixed , while it is good to hand the scraper and clean the screen.
4. The printing block can move forward to match the screen pattern of fixed position, it is in order to get a better printing effect
5. The position of printing and double scraper position can be adjusted free by the nut .
6. The clearance level of the printing plate and the steel plate can be adjusted the Precision Trimmer Lever scale and display the scale with digital.
7. The arm of equipment can be adjusted respectively , suitable for different size 370~650cm.
8. The combination printing plate has the grooves and localization of PIN, it is simple seted and dressed up rapidly, it is also suitable for single-sided and double-sided substrate to produce.
9. Accurate floating printing table with X, Y, Z micro-adjustable system.
10. English/Chinese touch screen control with user-friendly easy to learn and operate.

II. Electric panel direction



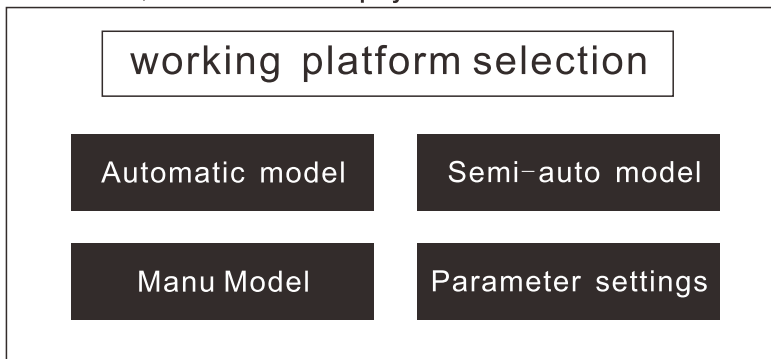
1. touch screen of micro-computer	4. running indicator lamp
2. left printing potentiometer	5. power supply control
3. right printing potentiometer	

III. Main aspects of equipment operation and adjustment

1. **confirm the equipment origin:** Open the equipment , the origin will confirm by itself , Prerequisite for the establishment is (S1, S3) or (S1, S4)
2. **main aspects of setting zero adjustment:** Touch the steel arm up key or down key, let the steel plate arm down to a lower starting point, put PCB on the table plate then rotary the moving wheel of the printing equipment top, according to the PCB thickness to be adjusted the space of the steel and the printing plate.
3. **set the way of the product of printing:** The equipment can be fixed the movable position and the PIN position, according to the steel plate graphics put the PCB to the table moderate position briefly .
4. **set the way of edition:** completed the above (two) action, then using personal correction. (check the printing block below the steel and the printing plate) main aspects of methods: first check the version of R, C, L, or diagonally , then search the target, fix the steel plate, at last use plate trimming correction.
5. **the way of setting printing stroke:** completed PCB setting alignment, then using the two induction switch of the scraper block, separately according to the steel plate design and the printing size set the induction switch position.
6. **the way of the scraper packaging:** the scraper is packaged by the center screw, using the center aperture of the scraper aluminum handle , according to the center of scraper block , fixed the screw.
7. **the way of the scraper position:** using the upper part of the scraper adjusting bolt is screwed into the screw out can be adjusted to the height of the scraper
8. **the way of the scraper balance:** using single screw control balance, before and after the screw is used to control the water before and after each scraper.
9. **printing speed setting**
 - A: printing space :2.0mm(the general base plate thickness 40 mm)
 - B: XHIP-UR7-10
 - C: SOIC-UR5-7
 - D: OFP-VR2-5

IV. The machine operation and adjust the essentials

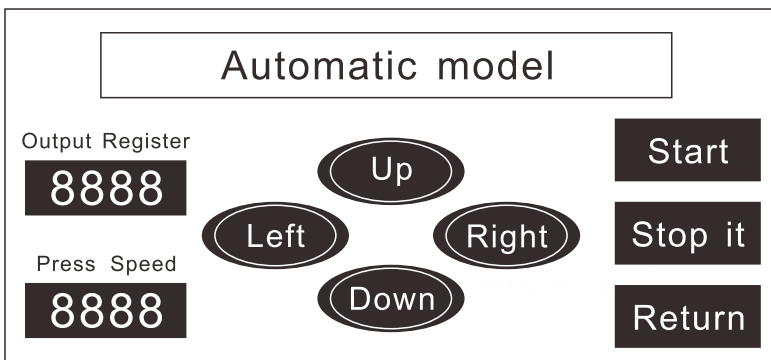
1. press the power switch, press the power of touch screen display bright 5 seconds later , the screen will display :



1. press the semi-automatic working mode into the semi-automatic working screen
2. press the manual working mode into the touching screen
3. press the specification setting into the specification setting screen
4. press the automatic working mode into the Automatic working screen
5. Attention: before ensure the automatic working mode , you have to set the specifications ,however it doesn't work

2. The Automatic working screen

When you are at the start screen , press the Automatic, then display the below frame



1. TOTAL: count / production quantity will display ""
2. press the start key ,then start automatic working
3. press the stop key ,then return the starting frame
4. **Up** up place /down place will display up limit or down limit of the printing steel plate , **Left** left place will display the scraper left limit, right place will display the scraper right limit.

V.Manual working frame

The start frame , press manual key will display the below frame ,then press the MAIN key will return the start frame.

Manu window		
Left up	Press speed 8888	Right up
Left Move Off	Return	Right Move Off

1. press the left scraper key , the left scraper will move up and down
2. press the right scraper key , the left scraper will move up and down
3. press the left printing key , the left scraper will move up and down
4. press the right printing key , the left scraper will move up and down
5. while press the down block two size keys, the printing steel plate up and down

Setting working frame: The start frame , press the setting working frame key will display the first setting frame :

Parameter Settings					
Move to the right start delay	9999	Move to the left start delay	9999		
Right drag delay under the knife	9999	left drag delay under the knife	9999		
Right mobile delay to rise	9999	Left mobile delay to rise	9999		
planned output	9999	Printing times	9999	Automatic start up delay	9999
count on	punt Rese	test mode	standard pattern	Return	

1. press Count switch then display change , Automatic count
2. "stop" doesn't count
3. press count zero then clear the history count data
4. Automatic stop interval time Automatic screen time, generally set at 50, at the same time there will be a digital key

VI.As show in figure

1	2	3
4	5	6
7	8	9
0	C	ENT

1. selected digital, press ENT into ,hen press the C key , put digital return to zero.
2. left scraper down stop , set left scraper down stop time to move right , while display the digital key, as the same way ,the unit is 0.1 S
3. right scraper down stop , set right scraper down stop time to move left, as the same way to operate
4. printing times set working printing methods is generally 1 times, if not set, show 0, the default is one work.
5. press return will display the setting working frame 2
6. press MAIN reset start fram
7. air pressure maintenance direction

Name	Specifications	Remakes
Program plc	S7-200	SIEMEN
Near switch(lift/right)	TL-W5MC1	OMORN
Near switch(up/down)	CS1-F	AIRTAC
Electromagnetic valve	4V210-08 24V	AIRTAC
Up/down cylinder	SC63- 150-S	BENDA
Frictioning cylinder	CU25-50	XINGCHEN
Power switch	VCO25B	VDSON
Governor	M5-4*6	SMC
Speed control valve	Y4-6*8	PISCD
Motor phase	S9KV90BH-S	SPG
Frequency converter	VFD002L21A	DEFTA
Relay	MYADC220V	OMORN
Three point combination	AL2000-02	BLCH
Linear sliderail	HG20	HIWIN

VII. remove the easy error

According to the following troubleshooting method of primary repair, if any problems during operation of the equipment

Number	Fault condition	The reason of Fault and method of elimination
①	1. Screen plate can't be up 2. Screen plate can't be down	1.The air pressure without input or the air pressure isn't enough (normal pressure should be maintained at 4~6kg) 2.Up peak inductor not inducting or damaged, broken, upper and lower electromagnetic valve fault, IC board fault 3.Printing function isn't selected. 4.Upper and lower cylinder control valve of defective or improperly adjusted.
②	1.Screen plate can't be down 2.Frictioning can't left or right print	1.Upper and lower electromagnetic fault, IC board fault. 2.Decreased peak inductor not inducting or damaged, broken
③	1.The screen plate is down then the scraper can't be left printed 2.The scraper can't be right printed 3.The screen plate can't be down 4.The scraper is right printed to the right position, it can't stop and the screen plate can't be up	1.The right inductor not inducting or damaged, broken 2.Driving motor power switch did not open or broken, the inverter fault, right line printing speed regulator to adjust the defective or damaged, poor motor. 3.Right drive relay damaged or broken 4.IC fault
④	1 The screen plate is down then the scraper can't be right printed 2 The scraper can't be left printed 3 The screen plate can't be down 4. The scraper is left printed to the left position, it can't stop and the screen plate can't be up	1.The left inductor not inducting or damaged, broken 2.Driving motor power switch did not open or broken, the inverter fault, right line printing speed regulator to adjust the defective or damaged, poor motor. 3.Left drive relay damaged or broken 4.IC fault
⑤	The screen plate is down but doesn't print then is up	1.Check around whether the sensor has been damaged or short circuit 2.Left and right sensor is the inverter interference, please in the sensor negative power supply in parallel with the OUTPUT a 0.1 μ F capacitor
⑥	No power input	1.Check whether the power supply has been input 2.Check the power whether following the line or undesirable 3.Check whether the power switch is broken or defective. 4.IC fault 5.Check whether the fuse is burned
⑦	Frequency converter can't start or drive motor	1.Inverter setting error 2.Broken inverter
⑧	The scraper can't be up and down	1.The Scraper cylinder to drive the electromagnetic valve failure 2.The scraper cylinder control valve is bad or unhealthy 3.IC fault

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