Omxie Corporation



Precision Star Series

Semi-auto printing machine

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1. Product features

- Precision frame: Adopting Japanese precision motors with linearity rail, and makes printing more stable.
- Printing pressure of Squeegee is adjusted by throttle.
- Printing table can lift 45°and rivet，It can be used for scraper settings, offloads and stencil cleanouts.
- Printing table can move front and rivet adjust sprinting place between stencil and sample, which gets better printing effect.
- High or low setting of printing table has scale number for consult.
- Level or distance between sprinting table and stencil display by precision micro-adjusted pole.
- It may print PCB which width is 470～750mm in adjusting machine arms.
- Orientation PIN lies on Knockdown printing bedplate, operation is simple and fast. It is the same with printing single side or dual sides PCB
- Proof-reading PCB position adopts by move arm and adjusts. Bedplate orientation along X,Y,Z.
- Electric motion is controlled by minicomputer and touch-screen.

2. Machine parameter

Printing size	13”x 9” Inches
Printing table size	15” x 11” Inches
Max screen frame size	29” x 23” Inches
Min screen frame size	18” x 14” Inches
Adjusting for table	1. Front-back ± 10mm 2. Right-left ± 10mm Rotate ± 30 degree
Power input	110v
Air supply	5-7kg/c ㎡
Printing Speed	VR scale enactment (left and right speed seperate enactment)
Machine Dimension	Approx. 35” (L) x 29” (W) x 65” (H)
Screen frame adjusting	Air cylinder impaction +Handle impact
Vacuum adsorption	Nothing
Machine weight	Approx 280kg

3. Machine Handles and Adjust Guidelines

1. Equipment origin ascertain

- Origin would be ascertained after equipment turn on

2. Essentials of return origin enactment

- Fall down the print screen and set the Stell Toil in clamp on the equipment. Put your PCB on the bedplatre and adjust position of the Stell Toil, make PCB and Stell Toil aligned. Space between PCB and Stell Toil is 0.4mm commonly.

3. Quomodo of PCB orientation

- Beehive bedplate, activity pin, agile orientates PCB.

4. Aim PCB and Stell Toil

Printing journey enactment

- Adjust position of two limit switch on the machine.

4. Operating Instruction

Turn on “Power” switch. Power is on. After a few minutes, mainscreen will display as follows.



Main Screen

Press “0” enter Auto settings screen.

Press “1” enter Semi-auto interface.

Press “2” to show acting screen.

Press “6” to enter setting screen.



Automatic Setting Screen

Press “0” on the main screen, come to this screen.

The machine will start to run require,

- power on;

connect to external air compressor with about 65 to 110 psi pressure;

proximity switches red color light on (one is on the back, air actuator, the second in the front)

When you press “1” Auto On, the machine with squeegee head is going to move per

setting. Press “2” Auto Off, machine stop.

In above screen you can set squeegee moving speed from left to right or from right to left.

Press “SET” button, you will highlight the number after Set, you can change this number per your required speed.



Semi-Automatic Setting

Press “1” Semi-auto screen comes up,



Point/Acting Screen Setting

Press “2” to get moving test screen.

When you press “0”, Point move function is activate.

You can press “2, 3, 4, 5” to try moving squeegee blades up and down.

You can use this function to adjust your squeegee height.

In above screen you can set squeegee moving speed from left to right or from right to left.

Press “SET” button, you will highlight the number after Set, you can change this number per your required speed.



Setting Screen

Press “6” on the main screen, you have SET screen.

LUStop is left squeegee blade how long will be stay on the top position, current is 0.

LDStop is how long the left squeegee blade when reach “bottom” including process to lower down, current setting is 12, it is 1.2S (X0.1S).

L move is how far the left squeegee move to right before it in the down position, current setting is 5.

Right column is the same.

If you want to change the number, you will multiple press “SET” button to highlight the number you want to change and type in new number. After you finish setting, you will press “ENT” to save.

“ESC” button is for exit from this screen to main screen.

Press Arrow down from SET screen, you come to above screen.

This screen just set Auto repeat number only.

5. Trouble Shooting

- After malfunction happened past 20 minutes, a number of malfunction will display on the LCD screen. Servicing method as following.

Number	Malfunction Phenomena	Malfunction reason and excluding method
51	1. Halftone can't rise 2. Halftone can't fall	1. Check air pressur connected 2. Electromagnetism inductions switch has no signal, electromagnetism valve malfunction 3. Printing function has not been set. 4. Throttle malfunction.
52	1. Halftone can't fall 2. Squeege can't move following L-R or R-L.	1. Electromagnetism valve malfunction 2. Electromagnetism inductions switch has no signal
53	1. Squeege can't move following L-R or R-L. 2. Halftone can't fall 3. Squeege can't stop while moving toward the right.	1. Dexter inductions switch has no signal. 2. Motor or transducer malfunction. 3 Delay malfunction.
54	1. Squeege can't move to L-R after the Halftone failed. 2. Squeege can't move R-L 3. Halftone can't fall 4. Squeege can't stop while it run to left inductive point, and Halftone can't stop.	1. Left inductions switch has no signal. 2. Motor or transducer malfunction. 3 Delay malfunction controlling run toward left.
55	Halftone rise immediately and no printing while it had falled.	1. Left or Right inductions switch 2. Left or Right inductions switch is disturbed by transducer. Please check parallel connection and capacitor.

56	No power	1. Check power connection. 2. Check power switch. 3. Check fuse
57	Transducer can't start-up or drive the motor.	1. Transducer parameter enactment error. 2. Transducer is mangled.
58	Halftone can't rise or fall.	Cylinder of the squeege electromagnetic fault. 2. Throttle of fault.