

# Multi-function cleaner

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## user's manual

\* Please read this manual carefully before use to ensure the correct use of the product.

Thanks to the purchase of our products, the company would like to express our heartfelt thanks. The manual describes the hardware composition, equipment operation, electrical drawings, and maintenance. Please fully understand this manual content and use it correctly.

Although the contents of this manual are correct, please contact the company if you find any questions or mistakes.

### **warn:**

- The equipment can only be operated by professional maintenance and maintenance personnel or qualified personnel
- Before electrification, confirm that the external input power supply matches the rated voltage and power of the equipment
- Please ground the equipment reliably
- All mechanical transmission of this equipment shall pay attention to personal safety during operation

### **pay attention to:**

Please read the user manual carefully before operating the equipment and remember the precautions

Do not install this device near the EMI source

Do not modify the hardware and software programs in the electric box, and the transformation is dangerous

Keep this manual properly and maintain the equipment according to the manual requirements

## **container loading list:**

One main body of equipment

One native machine (user manual)

If the customer has special requirements, please refer to the purchase

contract

# catalogue

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# Chapter 1. Brief introduction

## 1.1 overview

For the SMT industry PCB board cleaning, static electricity elimination, static electricity detection.

### Features of this machine:

- Using Panasonic PLC, step, precision ball screw, Panasonic precision instruments
- PCB board cleaning, electrostatic removal, dust removal, vacuum absorption, dust application.
- Can choose the corresponding mode according to the specific cyclone situation

**1.2 technical parameter**

<b>project</b>	<b>main parameter</b>
Transport direction	L→R or R→L
Power	AC220 50 / 60Hz Max.300W
Control method	Touch screen with Panasonic PLC Control
Delivery method	Belt type
PCB thickness	0.7 ~ 30mm
Delivery height	850~950mm (foot cup is adjustable).
Machine number	
Touch screen password	

## Preparation items before use

- Please use a 220V single-phase 50Hz capacity above 200W fixed power supply
- The machinery must be safely grounded and must be connected to the earth bus
- The ground wire must be well fixed in the metal part of the fuselage
- To ensure safety, prohibit moving bodies close to equipment in operation
- Do not install the machinery in the dust, oil mist, conductive dust powder, corrosive gas, flammable gas, moisture, shock vibration, strong interference, high temperature and outdoor environment
- Avoid corrosive solvent wiping machine and use neutral cleaner
- Please keep this specification for future maintenance and maintenance



pay attention to:

There is no reliable grounding and a possible risk of electric shock.

# Chapter 2.machine operation

## 2.1 Precautions for boot

1. To ensure safety, prohibit the body from contact with parts in operation
2. Check the machine for debris.
3. Check for debris or PCB on the track.

## 2.2 operation declaration

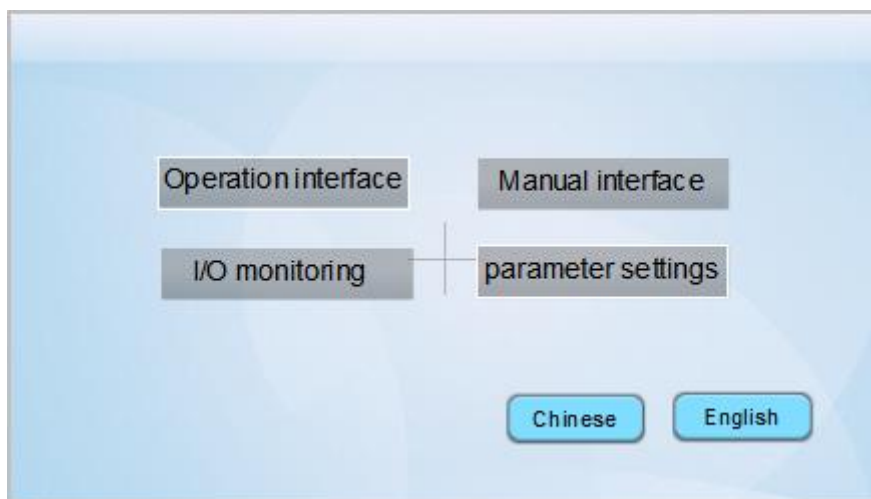
### 2.2.1 Boot page

Turn on the power supply of the device, touch the screen into the boot page, click the button to enter the "menu selection screen"



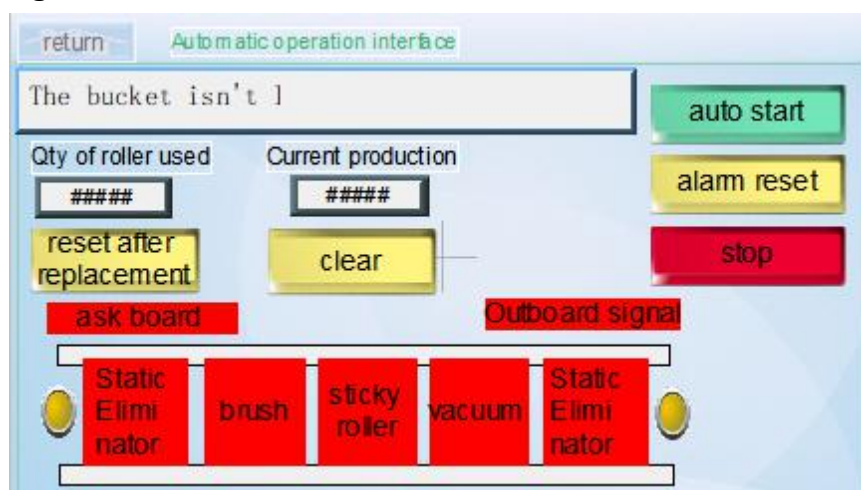
SQC330 Boot page





SQC330 Boot menu

### 2.2.2 Main page



SQC330 Main page

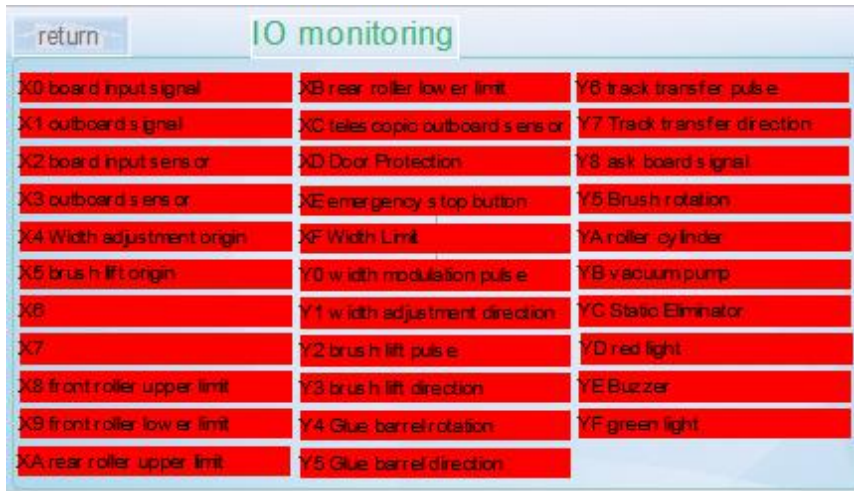
#### ■ Button instructions

- **Start** —— click button, the device enters the automatic running state
- **Alarm reset** —— device automatically runs fault alarm beep, click the button to remove the alarm state and continue to run
- **Stop** —— click button, the device stops all running state
- **Zero after replacement** —— number of replacement bucket zero

- **Zero zero** — The cumulative quantity of current production is zero zero
- **Return to** — click to enter the menu selection page

### 2.2.3 I / O monitoring screen

Enter the monitoring screen



SQC330 IO monitoring

### 2.2.4 Manually operate the page



SQC330 Manual operation

- **Point motion lift- - - - -lift motor lift action.**
- **Point move down- - - - -lift motor down action.**
- **The brush lift to zero- - -lift shaft back to zero action, back to zero to complete the action stop.**

- To the brush plate height- - - -lift the horse to the set height.
- Rail transfer- - - -Transfer rail transfer begins.
- Electrostatic eliminator- - - -Click the button The electrostatic eliminator works.
- Brush rotation- - - -Click the button brush rotation to start rotation.
- Touch barrel cylinder- - - -click the button to stick barrel cylinder action.
- The suction pump- - - - -suction pump starts working.

**Manual control of the rotation shaft**

**2.2.5 Parameter setting screen**

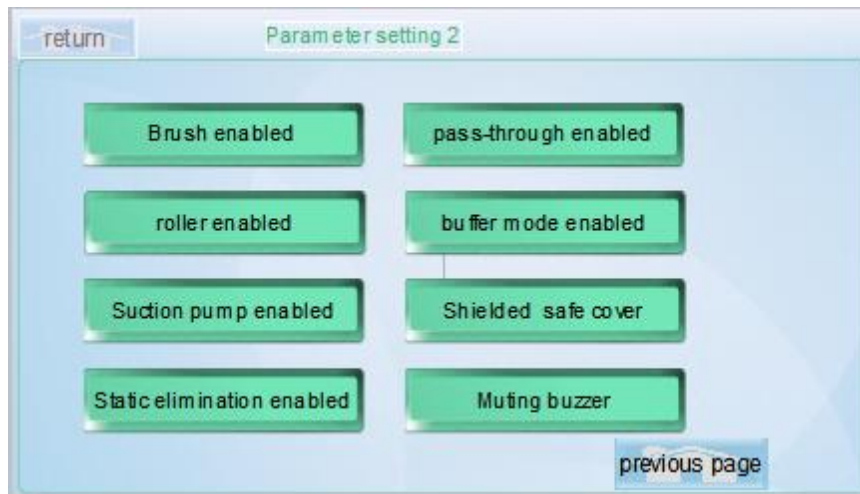


SQC330 Parameter settings

- incoming transfer overtime- - - - -Set the incoming timeout time.
- Transfer over time- - - - -Set the timeout time.
- Transfer delay time- - - - -Set the outgoing board delay time.
- Number of bucket replacement reminders- - - - -Set the number of bucket replacement reminders.
- Inboard transfer speed- - - - -Set the transfer speed of the incoming board.
- Transfer speed- - - - -Set the transmission speed of the exit board
- Point moving speed- - - - -Set the point moving speed of lifting

- Lift and connecting speed- - - - -Set the speed of lifting and down continuous operation
- Brush origin height- - - - -sets the height of the brush at the origin
- Brush and plate gap- - - - -Set the gap between brush and plate

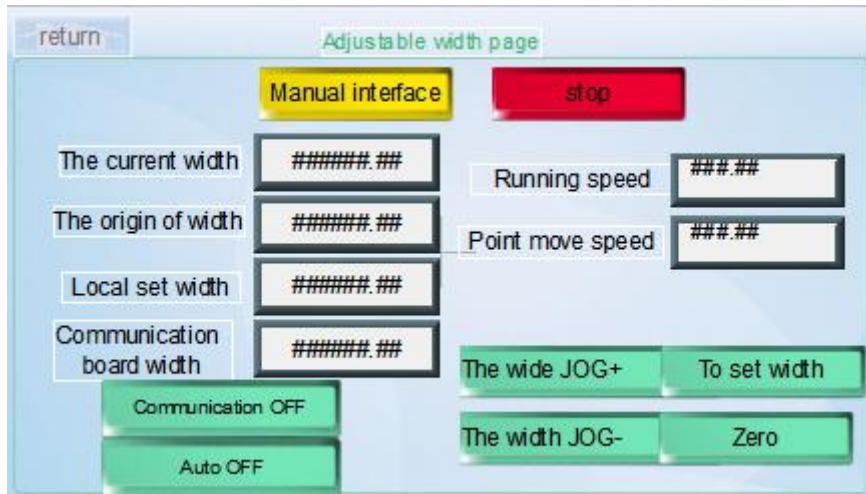
Parameter settings for the 2 page



SQC330 Parameter setting 2

- Brush Enabled- - - - -Enable the brush function
- Touch barrel use- - - - -enable touch bucket work energy
- Suction pump enabled- - - - -enabled suction pump function
- Electrostatic elimination enable- - - - -enable electrostatic elimination function
- Shielded protective door- - - - -shield protective door function
- Shield buzzer- - - - -shield buzzer function
- Pass through enable- - - - -enable pass through function
- The machine stop board enabled- - - - -does not open, the machine does not stop board, after the machine board, the machine only board.

### 2.2.6 Widening screen



SQC330 Adjust table width page

- Track widening + - - - - -orbit widening action
- Orbit narrowing- - - - -orbit narrowing action
- Ororbit to zero- - - - -ed orbit to zero
- To wide level- - - -wide track to set width
- Automatic broadening to set width- - - - -open automatic broadening.
- Native set width- - - -requires a widened PCB width
- Communication set width- - - - -the width required to be set for online communication
- Widthe running speed- - -continuous speed
- Widwidth point speed- - -speed during point speed

## Chapter 3. Fault description

### 3.1 Handling handling and maintenance equipment:

1. Be familiar with the installation position of the mechanical devices and the original of electrical equipment, and understand its performance and function.
2. Analyze the causes of the fault.
3. Locate the failed parts and the failed components
4. Targeted maintenance.

### 3.2 Reasons of common faults and troubleshooting methods

Fault content	failure cause	processing method
Into the board stuck	The left side height is different from the upper plane height	Use an active wrench to adjust the thread bar for a consistent height
The belt does not turn	Broken motor or the belt is too loose	Replace the motor or adjust the tension to tighten the belt
The main power switch indicator light is not on	Switch is broken, wire head is loose, power cord broken circuit	Pull off the plug, open the panel, check whether the wire is loose If there is loose pressure again pressed, if not loose, please replace the button



pay attention to:

Repair or replace electrical components, disconnect the power, prohibit live operation.

## Chapter 4: Maintenance

### Every week

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- Check whether the transport steel belt is too loose and keep the transport belt clean.
- Wipe dirty oil with silk cloth or paper and lube the ball screw.
- Test for the smooth delivery of the product.
- Check the belt track for wear.
- Oil the screw for at least 2 weeks.