



**Shenzhen Southern Machinery Sales and Service Co.,Ltd**

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# User's Manual for Part Counter



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## 一、 Introduction

### 1、 Theory

Chip bonder counter can precisely count the SMD quantity, by adopting optical and electric sensor theory, using the corresponding relation between guide hole on the carrier and part, and by the special die and massive integrated circuit, chip bonder counter achieve zero error, and achieve convenient, quick counting, it is an effective auxiliary equipment for managing SMT material.

### 2、 Product features

With full automatic way figure part quantity, it is convenient to count and delivery material. Easily operate it, original design defending strip dropping off decrease strip hurt to a smallest extent. It can count in forward direction or in backward direction, and it can be preset value, precisely figure out quantity with zero error. You also can install scanner gun and barcode printer, which is more convenient for managing operation..

### 3、 product specification

Power: AC220V, 50/60HZ, 25W

Counter range: -99999--99999PCS

Profile size: L470\*W300\*H180mm

Weight: 10KG

### 4、 Product Utility

Suit for SMD strip type of part

Strip wheel diameter: suit for any size



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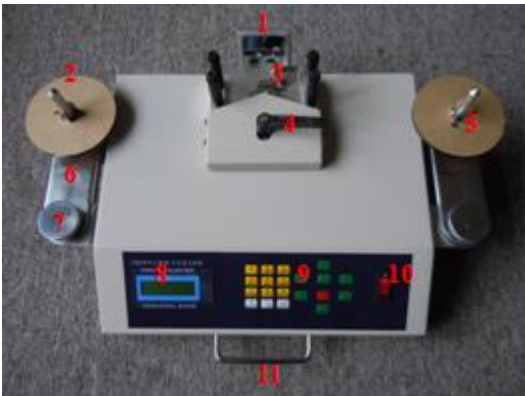
Strip pitch: 1, 2, 4, 8, 10, 12, 16, 24, 32, 44, 56mm ( Note: if pitch is smaller or wider, make it according to customer's request)

Strip width: 4, 6, 8, 12, 16, 24, 32, 44, 56mm (Note: if width is smaller or wider, make it according to customer's request)

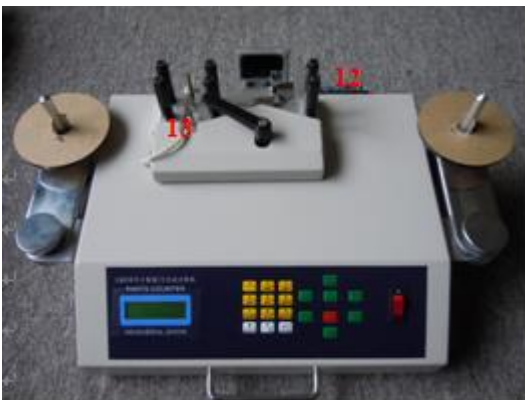
## 5、 Product Structure

this product have two types.

### 1) MZ-901 Standard chip bonder counter MZ-901



### 2) MZ-902 inspecting missing type chip bonder counter MZ-902



- 1、 material reflector
- 2、 Tray
- 3、 Gear/motive pressing plate
- 4、 monkey wrench
- 5、 rocket head
- 6、 free movable shoulder
- 7、 location knob
- 8、 display
- 9、 key
- 10、 power key
- 11、 handle



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## 12、 glass fiber amplifier

## 13、 glass fiber head to head emitter

## 二、 Chip bonder counter attention

- 1, After unpacking, please count and make sure all accessories ready.
- 2, Before using chip bonder counter, please carefully read operating instructions and safe keeping.
- 3, Please check whether voltage specification conform to the electric supply.
- 4, Please check grounding properly, and guarantee safety of human body and part.

## 三、 Chip bonder counter function key and operating instructions

### 1、 Function key introduction

#### 1) “PRINT”

Operation way: enter the key, you can print the counting part and quantity on the barcode by the barcode printer.

#### 2) “SET”

Operation way: if the display shows 00000 in the left bottom, you can directly press the number key to input the counting part quantity; press the SET key one more time, the machine switches to manual mode, and the display shows \*\*\*\*\* in the left bottom. Switch to manual mode or automatic mode using this key. (note: under automatic mode, you can preset a value before counting material, when machine turn to the presetting value, it will automatically stop, under manual mode, only if you press “ stop/zero clearing” key or it finishes all material, the machine will stop.)

#### 3) “PITCH”

Operation way: after pressing this key, the pitch value in the display will flicker, then you can input the pitch value and press “ENTER” key, if no press after 5 second, automatically memorize, the machine will resume to standby status after one ticking sound.

#### 4) “RIGHT” “FOREWARD/RIGHT”



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Operation way: Pressing this key, start clockwise counting part, the numerical value is positive number, "BACKWARD/LEFT" on the contrary.

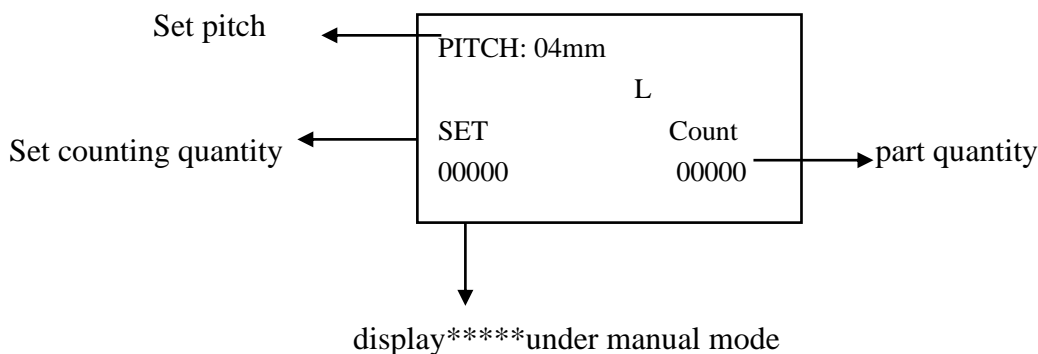
5) "STOP/ZERO CLEARING"

Operation way:

- (1) Under counting or feeding back status, press this key, it will stop counting or feeding back.
- (2) If under standby status, press this key over 2 second, the counting value will be cleared up.
- (3) If under printing interface, press this key, return to main interface.

6) "SELECT", this key is switching key for setting parameters in printing interface.

7) LCD display



8) "Time/missing stop" key is switching key for motor rotating speed, press this key, LCD display will show motor speed will be switched among H(high speed), M(middle speed), L(low speed).

## 2、 Operation Flow

- 1) Connect the power cable to the master machine, and plug the AC220V power.
- 2) Turn on the POWER key on the panel of machine, at this time, LCD panel become light
- 3) Press PITCH key, set the pitch between counting parts, then Press "ENTER", and put the part on the left tray.
- 4) Manually pull out the strip and put it between material guard plate and counting gear, make the first part and blank middle hole aligning the middle line of material guard plate.
- 5) Press "STOP/ZERO CLEARING" key for 2 seconds, make the value zero clearing. Note: when pulling the strip, counting gear will turn and count, pressing this key, make the value



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zero clearing.

- 6) Press "SET" key to switch to manual mode or automatic mode, when you select automatic mode, you should input a value which you are going to count, or the "FORWARD" motor won't start.
- 7) Pull strip coiling to the blank tray (right tray) by your hand, press "FOREWARD/RIGHT" to begin counting.
- 8) When finishing preset value, motor stop. Impacted by the inertia theory, counting number may be more one or less one than the set number,
- 9) When finishing counting, press "BACKWARD/LEFT", strip will coil back to the left tray, after finishing, rotation will stop.

## **四、Chip bonder counter connecting printer operating instructions (Option)**

### **1、Check equipment**

- 1) Connect part counter and barcode master machine
- 2) Correctly place the barcode paper in the printer

### **2、adjust and test equipment**

- 1) Start power switch of the part counter
- 2) Start bar code master machine power switch: power pilot light and ready pilot light are on, at moment, press FEED key of bar code master machine (automatic aligning key), make the paper automatically align. ( P.S: if power light is flickering, it denotes the machine is off line, please restart power or repress FEED key)

### **3、Print**

Press "PRINT" key in the master interface, master interface will display printing interface, the first row in the interface show: company name (you can set it by



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yourself); the second row show: time, the last row show printing operation.

- 1) When entering printing interface, there is a flickering cursor in the third row, you can edit and modify the content in the cursor position.
- 2) In the printing interface, pressing LEFT/BACKWARD, you can make the cursor move left, pressing RIGHT/FOREWARD, you can make the cursor move right.
- 3) In the cursor position, you can directly input the number or letter, if you continually press any key among 0~9 key in a short time, you can switch between number and letter on the key. Among of them, pressing l key, you can switch to special symbol, Capital letter, small letter, and etc.
- 4) After editing each row, cursor will stay in the row you are editing, press "ENTER" key, it will display OK in the left of this row, which means the content is saved.

**Note:** Saving the content in the editing row, only when cursor is in this row, and then press ENTER, the content can be saved. For example, if you want to save the content in the first row and second row, when cursor is in the first row, you press ENTER key, at the moment, only the content in the first row is saved, the content in the second row can't be saved.

- 5) In the printing interface, press SELECT key into printing parameter setting interface, XYWH: XXX XXX XXX XXX showed in this interface separately denote X axis, Y axis, width, height which you can set to the printed barcode paper.
- 6) Press STOP/ZERO CLEARING back to master interface
- 7) Press PRINT key one more time, you can print the content in the printing interface.

**Tag: when scanner scans barcode, it will display in the printing interface, press PRINT key to print.**



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## 五、 Easy trouble shoot

Failure	debug method
After turning on power, LCD no display, buzzer no sound	Please check if power cable drop off or fuse loosen
。 After turning on power, LCD no display, buzzer sound	LCD display cable loosens or breakdown, please check or contact dealer to change.
LCD normally displays, but FORWARD/BACKWARD can't be started.	1.The counting quantity is more than or equal to the set value, or selecting automatic mode before counting but not set quantity, please refer to operating instructions. 2. Motor signal cable or power cable bad contact.

**六、 After-sale service a: (overall unit maintenance period for one year, master controller board maintenance period for three years, and tended for all life.) the following state happened is not in the free maintenance condition.**

- 1、 Machine is damaged under carried by your person by himself
- 2、 In unstable voltage region, due to not using voltage stabilizer, cause component damaged.
- 3、 Due to not using correct voltage, cause component damaged
- 4、 Due to altering machine without the written approval of our company, cause the machine damaged..
- 5、 Not solded by our company, but solded by dealer or other factory.
- 6、 Natural disaster, or act of God.



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## After-sale service card

User's Name: \_\_\_\_\_ Address: \_\_\_\_\_

Machine model: \_\_\_\_\_ User's phone number: \_\_\_\_\_

Purchasing Date: \_\_\_\_\_ Dealer's seal: \_\_\_\_\_

User should know that:

一、 From the purchasing date on, overall machine will be maintained for one year, and tended for all life.

二、 The following state is not in maintenance condition:

(1) Due to wrong operating, carelessly using, natural disaster cause the machine



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damaged.

- (1) Due to operating abnormally, cause the machine not work properly.
- (2) Once dismantled or repaired by someone who is not our technician.
- (3) Using consumable supplies or component which are not from our company, cause the machine damaged.
- (4) Not using the voltage required by our company, cause the machine damaged.

三、 Except this guarantee, any guarantee card supplied by other company or people won't be approved by our company.

四、 Please safe keeping the card and formal purchasing receipt, when repairing, it will be effective after showing them to our people review.

五、 If the card has no commodity seal and purchasing date, the card automatically become invalid.



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