



**Southern Machinery Sales And Service Co Limited**

**Tel : 0755-83203237; Fax:0755-23240492 Website: [www.SMThelp.com](http://www.SMThelp.com)**

# Auto label relloning counting machine

## Operating Manual

catalogue

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# 1. company profile

## 1.1 Company profile

Southern Machinery Sales And Service Co.,Ltd, established in march 2011 ShenZhen, Guangdong province, China. We mainly design and manufacture SMT/AI machine, also providing full services support and selling spare parts for electronic manufacturing PCB assembly.

Our technical team have more than 20 years experience in electronic industry, visits aboard to service around 2~6 months each year and provides training to many Sr engineers at their factories.

With the high-cost equipment and meticulous service, Southern Machinery has grown to be a leader professional company of AI/SMT field in China.

Our goal is spreading the successful experience of “**Made-In-China**” to the worldwide.

## 1.2 , Product category:

### 1.2.1 \* Label Auto \* (2 series)

Function: \* Automatic number of rolled labels (arbitrarily set arbitrarily from 1-999999pcs).

\* High-speed accurate points: (the number of standard label points per minute can reach more than 5,000 per minutes, with the accuracy rate of more than 99.9%).

\* Set any number of points: automatically after the machine reaches the set number.

\* **Automatic shutdown alarm (exclusive new function) to prevent the lack of labels and fewer labels from affecting the integrity.**

\* **To the number of pre-stop function, reach the set number to slow down in advance, to prevent high speed operation actually stop damage the label.**

\* **Head number compensation function, automatically compensate the head label, to ensure the accuracy of points.**

\* Full function touch screen operation: stepless digital speed control, simple operation mode, what you see is what you get.

\* Constant speed running function (optional): regardless of the volume small volume, the running speed is constant (will not pull labels and points because of the larger diameter is faster).

\* With its own tension adjustment mechanism (dual-axis standard tension adjustment): to ensure that the unwinding paper roll does not overpress traces or erase the label surface.

\* All models are standard equipped with one-click scroll back function,

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which can quickly restore the label of good points to the original state

(automatic labeling and labels with serial number must be this function).

\* Unattended function: automatic shutdown alarm when the whole volume label ends. Prevent prolonged running damage to the unattended machine.

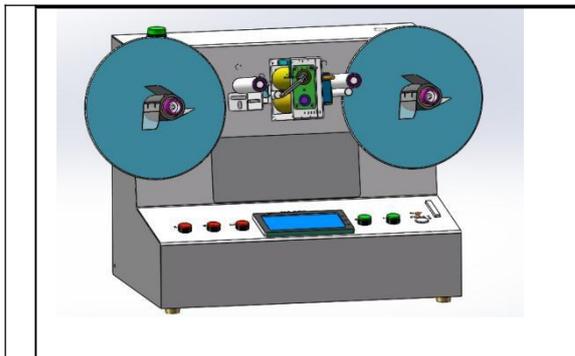
\* Number of transparent labels / transparent punctuation marks with metal characters (optional function).

\* Optional automatic cut-off, no paper cylinder roll collection / no electricity operation and other customized functions.

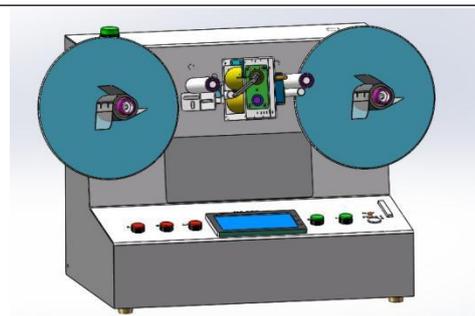
Application: 1. The warehouse sends materials according to the quantity.

2. IQC incoming material inspection (a few missing material from suppliers will not hide).
3. Labeled manufacturers' shipment sampling inspection.
4. Material inventory count in the warehouse.
5. Label split volumes (large volumes and small volumes).

There are two styles available:



SD520/ SD630/ SD750



SD525/ SD635/ SD755

### 1.22 \* Label automatic meter machine \*: (two series)

Automatic inventory of the label length, high-speed and accurate. For a variety of labels (transparent labels are available). Clomark and paper mark / tape can be applicable, can accurately count up to 60 meters per minute, greatly reducing the error and cost of manual length measurement. One-key setting, quick count, to the number of self-stop, automatic cut-off (optional), automatic roll-back (direction demand), no power operation (optional).

Function: Can calculate the length of the roll label automatically (it can be set arbitrarily from 0.0001m-999999m). High-speed accurate meter meter: the standard label meter can reach more than 50 meters per minute, the length error is less than 0.5%). Any setting of point meter

length: automatic shutdown alarm after the machine reaches the set number.

\* To the number of pre-stop function, reach the set number to slow down in advance, to prevent high speed operation actually stop damage the label.

\* Head number compensation function, automatically compensate the head label, to ensure the accuracy of points.

Full function touch screen operation: stepless digital speed control, simple operation mode, what you see is what you get.

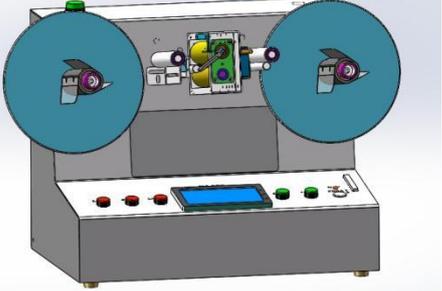
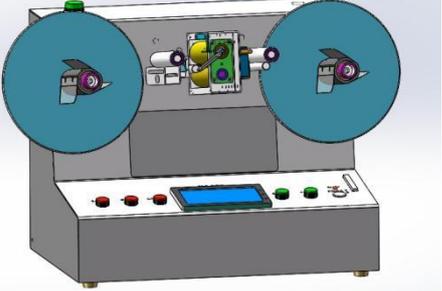
With constant speed running function (optional): regardless of the large or small volume, the running speed is constant (will not pull the label and points because the winding diameter is large).

With a tension adjustment mechanism (double axis standard tension adjustment): to ensure that the unwinding paper roll does not overpress traces or erase the label surface. The whole series of models are standard with one-click scroll function, which can quickly restore the label of the original number.

Unattended function: automatic shutdown alarm when the whole volume label is finished. Prevent prolonged running damage to the unattended machine. Standard with transparent label points / transparent meter meter with metal characters.

Application: 1. Warehouse according to quantity (to the number can be automatically cut off).

2. IQC incoming material inspection (a few missing material from suppliers will not hide).
3. Label and cloth label manufacturer shipment sampling inspection.
4. Material inventory count in the warehouse.
5. Label volume (paper tape / cloth mark / ribbon / label large volume and small volume).

	
SDC520/ SDC630/ SDC750	SDC525/ SDC635/ SDC755

1.23 \* Label automatic scanning / reader / printer \*: (one series: G E R-D S6 \*\*\*)

Function: It can detect the error code, duplicate code, missing code, flow code discontinuity in the barcode 2 / D code. Support supports reading multiple QR codes at the same time.

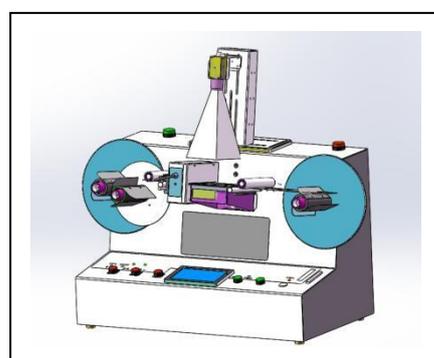
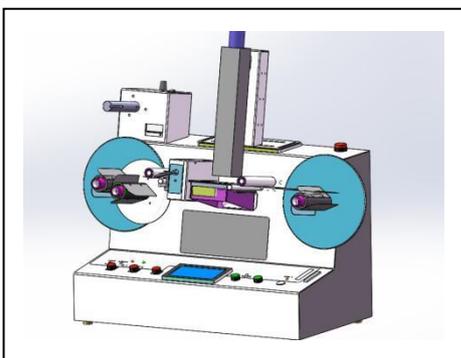
High speed and accurate  
(more than 500 units per minute).  
An incorrect automatic shutdown  
alarm is detected.

Read code data can be saved and exported.

Optionally supports remote data transfer proofreading.

Read out to set the specified barcode number,  
to the number of shutdown. Application: 1. The  
warehouse sends materials according to the  
quantity (the bar code record of the issued materials  
for record).

2. IQC incoming inspection (barcode and QR code that cannot be read in advance).
3. Sampling inspection (OQ A).
4. Production process control and product identity tracking and traceability.
5. Batch import and preservation of bar code / QR code data.



1.24 \* Label content error leakage automatic detector \*: a series: SDV6 \* \* \*) Function: can automatically detect the label printing error leakage and other defective product errors.

It can automatically detect label dirt and position deviation.

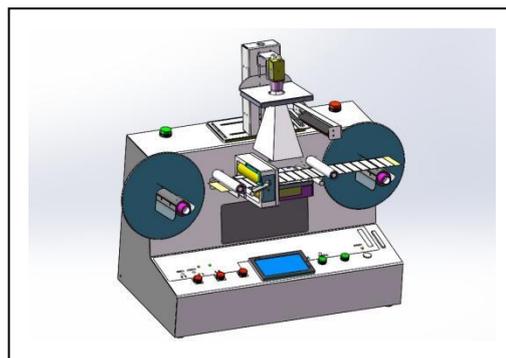
Can automatically detect the label bar code / QR code error recode, flow code discontinuity and other errors. Can automatically detect the label barcode / QR code and flow code mismatch error.

Supports mixing multiple barcode QR codes and various characters. High accuracy.

An incorrect automatic shutdown alarm is detected. Read code data can be saved and exported.

Optionally supports remote data transfer proofreading.

Read out to set the specified barcode number, to the number of shutdown.



Application: 1. The warehouse sends materials according to the quantity (the bar code record of the issued materials for record).

2. IQC incoming inspection (barcode and QR code that cannot be read in advance).
3. Sampling inspection (OQ A).
4. Production process control and product identity tracking and traceability.
5. Batch import and preservation of bar code / QR code data.

Application: 1. IQC incoming material inspection (to detect and detect unreadable bar code,

QR code and printing errors in advance).

2. Labels and cloth mark manufacturers ship sampling inspection or full inspection to ensure quality.

3. Factory manufacturing process, full inspection and production.

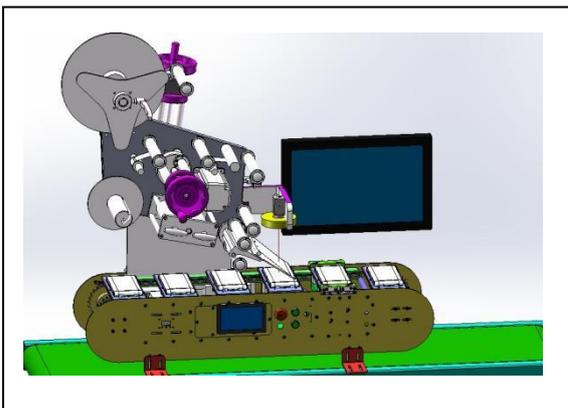
**1.25 \* Automatic marking machine \*: (many different specifications)**

Automatic labeling to the product or designated location, labeling speed (3-10 times manual labeling). Can be posted flat /

Many different product labels like irregular surface / round bottle / wire / fabric. Can label the size of the width (minimum can be 3x3mm, up to 100x200mm). You can label labels of different specifications (coated paper / PVC / PE / transparent / cloth / double-sided adhesive / non-woven, etc. High labeling accuracy (the labeling error with the highest accuracy is less than 0.05mm)./ Printing / marking marks on cloth marks / tape. Standard quality is good, the label will not appear warping / bubble / fingerprint / scratch / crease and other bad phenomenon.

Application: 1, the need to automatically label manufacturers, suitable for the batch and the high label requirements, less will not be calculated.

2. Plants and enterprises that need to improve labeling efficiency and



reduce labor costs.

Online type precision stick machine with visual detection Plane labeling machine

**1.26 Label printing automatic turnaround:**

Automatically collect volume label, print while collecting volume. Instead of manual volume collection. Fast speed, neat winding, do not damage the labels, the winding speed is automatically adjusted with the

printer printing speed.

Application: 1, Label printing site, label inspection back to the volume.

2. Automatic marking machine, which requires the direction of labeling.

## 2. Equipment introduction (automatic counting machine)

Label automatic counting machine:

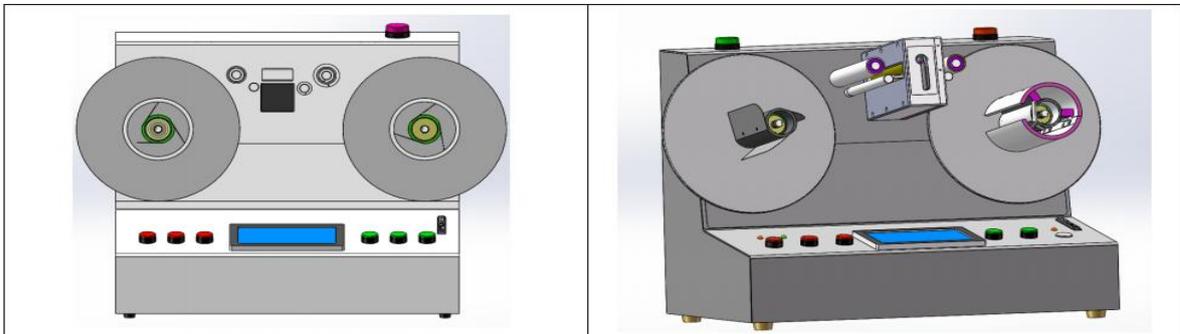
### 2.1 Model / Specification:

#### 2.1.1 Product model, use and advantages

product model	Lag Point Machine- -SD5 * *, SD6 * *, SD7 * *
brand advantage	<ol style="list-style-type: none"> <li>1. Have independent intellectual property rights and appearance / function design patents and product core product technologies.</li> <li>2. The control instrument is operated by the full touch screen</li> <li>3. Adopt Japanese original KEYENCE sensor, with long life, stable performance and complete functions.</li> <li>4. The core electrical components are all imported or domestic first-line brands</li> <li>5. Excellence, focus on every detail, use more love, more assured</li> </ol>

### 2.2 Category introduction of label automatic counting machine:

The company's label point count machine is divided into two series of D3 series and D5 series, each series has the difference between standard models and customized models, different models have different appearance and function, here first to do a simple introduction to each model.



2.3 , Differences between each series of automatic counting machine: (◇ - without this function, ◆ -standard function, ◇ -optional function, need customization)

functional category	D5 * * series standard Quasi-machine configuration	DC5 * * series Option al configuration	DS6 * * series standard Quasi-machine configuration	The D6 * * series Option al configuration	explain
Label point function	◆	◆	◆	◆	Standard Points Features 1-99999
Number of transparent label points	◇	◇	◇	◇	Point-transparent label with hot gold / silver
Lack of inspection alarm	◇	◇	◇	◇	Stop alarm when the whole volume single sheet is missing
Touch screen operation	◆	◆	◆	◆	Full-function touch-screen operation, convenient
To count the alarm	◆	◆	◆	◆	Stop the alarm when the set number is reached
Straight-in up and down paper tube	◆	◆	◆	◆	One-step quick loading label paper tube
To the number of pre-stop	◆	◆	◆	◆	Slow down to protect the label
adjustable speed	◆	◆	◆	◆	All the running speeds can be adjusted freely
Number of keys: 6	◇	◇	◆	◆	External 6 quick operation keys
Japan imports the sensors	◆	◇	◆	◆	Japanese KEYENCE sensor
Multiple column tag counts	◆	◆	◆	◆	1-4 Column Label counts Count
Countertop anti-skid	◆	◆	◆	◆	Anti-skid function
76mm paper tube	◆	◆	◆	◆	The paper roll loaded with the label is 76mm
45mm paper tube	◇	◇	◇	◇	The paper roll loaded with the label is 45mm
28mm paper tube	◇	◇	◇	◇	The paper roll loaded with the label is 28mm
200mm Paper Roll	◆	◆	◆	◆	Roll diameter below 200mm is available

250mm Paper Roll	◇	◇	◇	◇	Roll diameter below 250mm is available
300mm Paper Roll	◇	◇	◇	◇	Roll diameter below 300mm is available
The 400mm label	◆	◆	◆	◆	Subject length below 120mm is available
No paper tube to collect paper	◆	◇	◇	◇	Quick fixed standard head, no paper tube marking
Automatic rotation	◆	◆	◆	◆	Label quick rotation recovery with one key.
meter function	◇	◆	◇	◇	The length of the roll-load item can be calculated
Automatic cutting paper	◇	◇	◇	◇	Cut off the paper tape automatically after the count arrives
Accurate point number *	◇	◇	◆	◆	The point-count accuracy rate was 100%
Automatic paper delivery	◇	◇	◆	◆	The machine automatically delivers paper without labor
High-Speed Point Count Function *	◇	◇	◇	◇	High-speed operation, up to more than 60 meters per second
UPS supply electricity	◇	◇	◇	◇	No power operation, the power supply time is optional
Automatic reading code	◇	◇	◆	◆	Automatic read of the barcode / QR code
Misleakage detection	◇	◇	◇	◇	Automatically detect printed content errors and omissions

\* Precision: Calculated from the standard label test results.

Standard label: the bottom paper light transmittance is more than 50% or above, the label light transmittance is less than 50% or below, the label width is 5mm, the label length is 80mm, the label spacing is more than 3mm for the local standard label, the greater the light transmittance deviation, the possibility of error will increase accordingly.

Parameter description: All the parameters and data in the instruction manual of the machine are the test results of the samples with standard labels. The test results of different samples have certain differences, which cannot be regarded as unqualified or substandard by the machine.

\* High-speed function: The running speed of the standard machine is about 40 meters per second, and the high-speed operation can reach more than 60 meters per second.

2.4 ., Normal service conditions of the equipment:

#### 2.4.1 , Machine requirements for labels:

2.4.1.1 Non-transparent labels: label transmittance of more than 80% is transparent labels. Transparent label in general

It is difficult to identify and count the points on the whole machine. In theory, the less the transparency, the more accurate the points, and the transparency

The greater, the greater the risk of point accuracy. For the counting of transparent labels, the machine must be customized individually.

---label transparency detection method: when there is no label on the counting machine, look at the number on the counting machine sensor and write down. Then put the point number label (without bottom paper) on the light point of the point number machine sensor (inside the point number head), and then look at the number on the sensor and write down. Then divide the marked number by the unmarked number, and the result is multiplied by 100%, which is the light transmittance of this label.

2.4.1.2 The transmittance of the label bottom paper (off paper): When the transmittance of the label bottom paper (off paper) is less than 20%, the label counting machine may not be able to make accurate points. Labels with light transmittance of less than 20% are difficult to identify and have points on ordinary machines. Theoretically speaking, the greater the transmittance of the label bottom paper, the more accurate the points, the smaller the transmittance of the label bottom paper, and the greater the risk of point accuracy. If a label with small light transmittance is required, the machine must be customized individually.

Detection method of light transmittance of---label bottom paper (off-type paper): when there is no label on the counting machine, look at the number on the counting machine sensor and write down. Then put the label bottom sheet (without the label) on the light point of the counting machine sensor (inside the dot head), and then look at the number on the sensor and write down. Then divide the number when there is no bottom paper by the number when there is no bottom paper, and the result is multiplied by 100%, which is the light transmittance of this label bottom paper.

2.4.1.3 Label material and thickness: the label thickness should not exceed 1mm, when too thick, the label may be scratched.

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2.4.1.4 Only the label of the rolled items can be used. Labels for non-rolled materials cannot be used in this machine.

2.4.1.5 Label roll materials must be neat, otherwise it will cause inaccurate points or uneven roll materials.

2.4.1.6 The maximum total weight of the label roll should not be greater than 3KG (even if other conditions are met), otherwise the load of the machine will be too large, resulting in slow speed, increased vibration and noise, and serious damage to the equipment. And may cause inaccurate points or uneven roll-back materials.

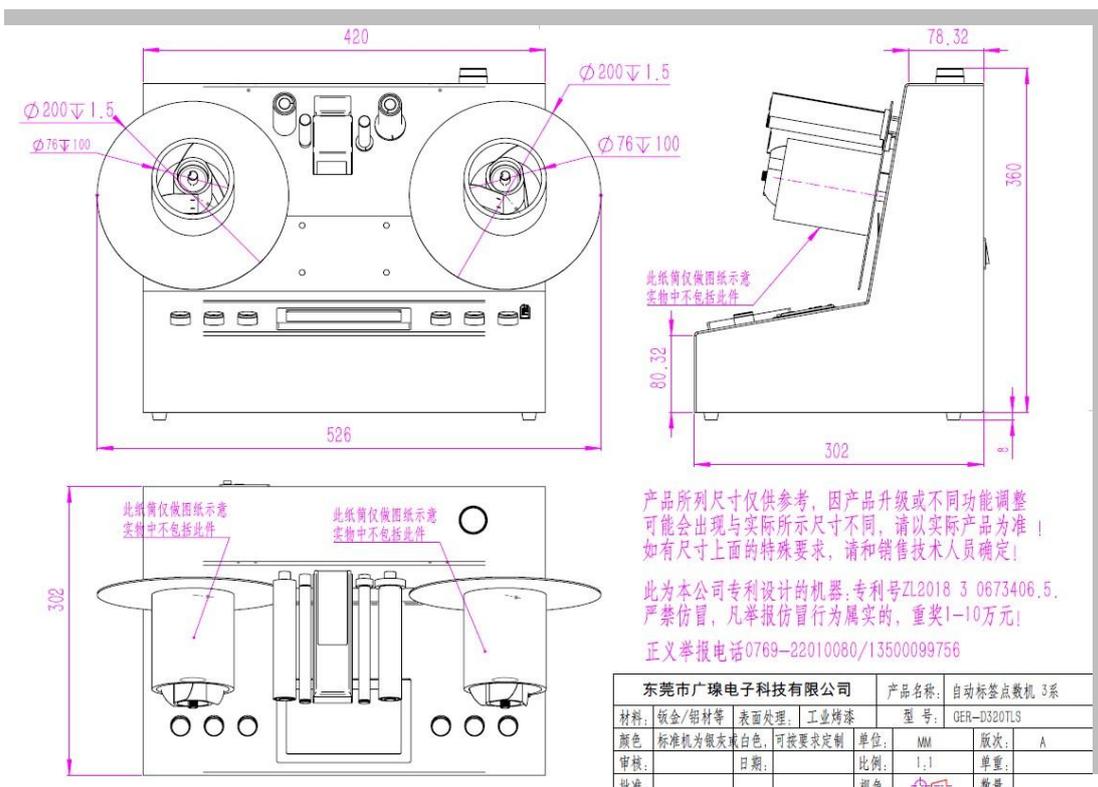
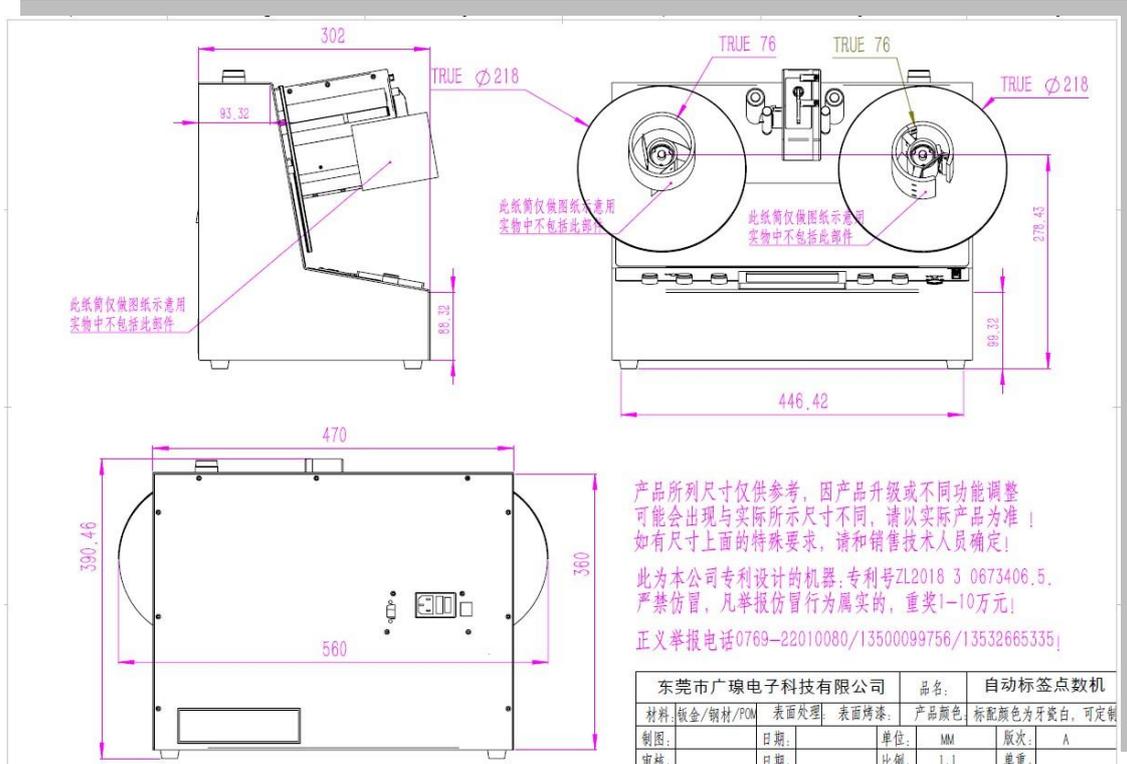
---requires a label volume with points more than 3KG to customize a machine with high load. And need to be determined with the company's sales personnel in advance.

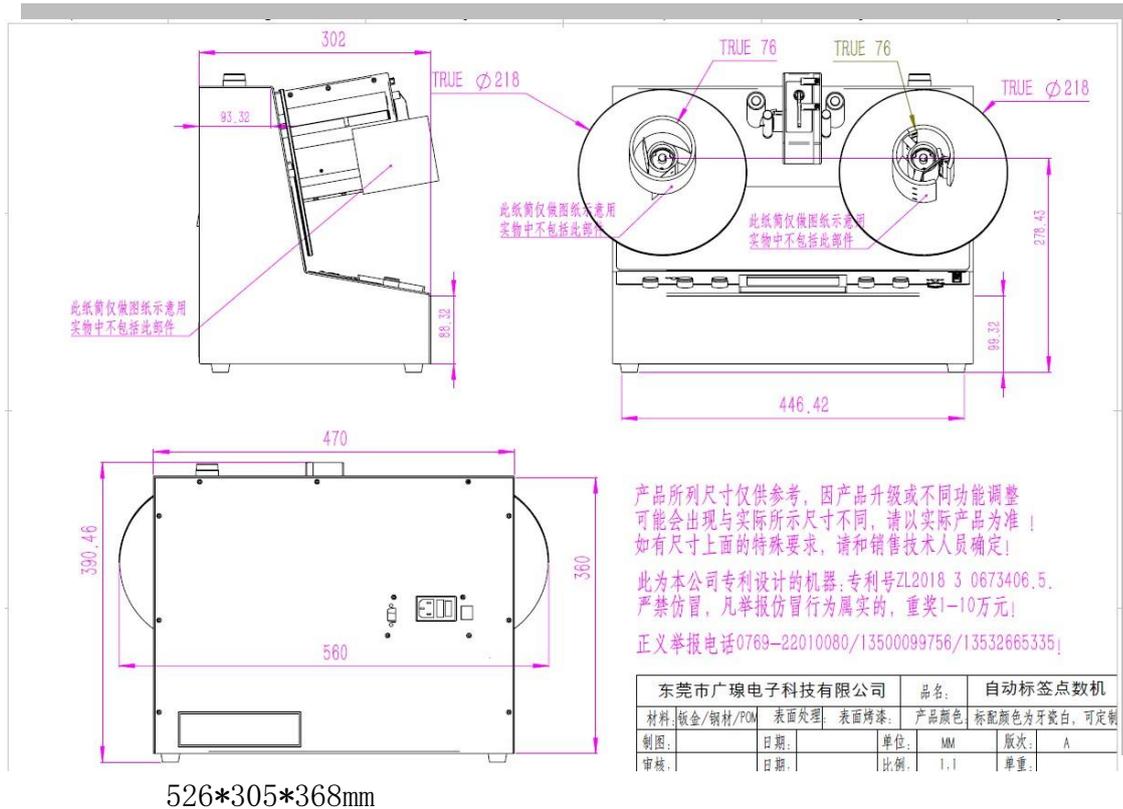
### 3. Product technical parameters;

3.1 , product size:

311 , SD (C) 5 \* \* \* Series: OVERALL SIZE. 526\*305\*368mm

312 SD (DV / DS) 6 \* \* \* Series: OVERALL SIZE:. 526\*305\*368mm





### 3.2 Product weight:

321 The product weight of different configurations will have some differences, specific to the physical object shall prevail. SD5 \* \* \* series: the net machine weight is about 15KG, including packaging about 20KG package.

SD6 \* \* \* series: net weight about 20KG, including battery about 25KG, packaging about 25-30KG SD7 \* \* \* series: net weight about 20KG, including battery about 25KG, packaging about 25-30KG

### 3.3 Performance parameters (not specifically specified)

3.3.1 Maximum running speed	Maximum 60m / min (different models, different materials and load have about + / -30% deviation)
3.3.2 Point number rate	Maximum 10,000 p c s / min (with bottom paper transmittance above 50%, label transmittance below 50%, label width of 3mm, test results shall prevail if label spacing is greater than 3mm, different speed points)
3.3.3 Step rate	Adjustable at 1m / min~20m / min (valid for custom models only)
3.3.3 Reverse rate	About 50m / min (about + / -20% deviation for different materials and loads. <b>(Effective only for custom models)</b> )
3.3.4 Point accuracy	99% -100% (bottom paper light transmittance of 50%, width of 20mm,

	spacing of 3mm when testing, different models have different differences)
3.3.5 Multi-column label count	The multi-column label count function can accurately point the number of labels with up to 4 columns at the same time.
3.3.6 Set the number of headers	When the point header will ground some labels can not count, this machine can automatically count the number of header is not included, to ensure that the whole volume of label accurate points, one is not less.
3.3.7 operability	Full function touch screen operation, all functions and parameters set touch screen operation, simple and convenient high-grade,
3.3.8 source	220V 50Hz 150W (maximum power)
3.3.9 power supply mode	1, 220V AC 50HZ
	2. Built-in UPS power supply (select UPS function option only)
3.3.10 UPS quantity of electricity	Works for maximum load over 5 hours (only UPS)
3.3.11 Charging protection	Power power alarm, full of prompts. (Select the UPS feature models as valid only)
3.3.12 Charging safety protection	Over current, overload, over charge, automatic protection (UPS only)
3.3.13 Slant safety protection	The product will endanger the safety of personnel and equipment, the machine design can meet the product does not fall when tilt + / -15 degrees.

### 3.4 , Structural material

3.4.1 Material of the outer box	All metal paint computer ash, durable and good stability,. Compared with other electric wood and other wood / acrylic plastic products on the market, it has the advantages of no deformation, no wear, no damage, no aging.	The color can be customized
3.4.2 push-button	PC/ABC/PVC	Physical in line with
3.4.3 turntable	Cream-white acrylic / or metal material (or specified color)	Size can be customized
3.4.4 Receive the wheel	Aluminum alloy black treatment	Physical in line with

### 3.5 , driving system

3.5.1 Drive characteristics	Precise driven by high precision brushless stepper motor	Physical in line with
3.5.2 Positive and reverse	One-key two-way rotation function, convenient for automatic marking system	Custom function
3.5.3 Single step control	One-key single-step run function (Easy for sheet label point entry)	Custom function

3.5.4 One key to send paper	Suitable for dividing the label for multiple times, and the label will not be loose after cutting, do not need to pull the paper again, only one key can automatically send out the label for the next homework.	Only the S5 ** * is valid
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### 3.6 , operating system

3.6.1 mode of operation	Touch screen full-function operation, customized operation software	The full range is standard
3.6.2 PLC	Custom version of the all-in-one PLC controller, quick response and small size	

### 3.7 2., Control system and control circuit

3.7.1 controller	Using the independently developed "4.3-inch" Chinese and English real color touch screen human-machine interface	
3.7.2 Picture display function		Physical compliance (slightly different function interface)
3.7.3 Points are shown	1pc-99999pcs	Physical in line with
3.7.4 Setting range	Point range condition: 1-99999pcs;	Physical in line with
3.7.5 Setting mode	Human-machine dialogue mode, using touch-type input and control	Physical in line with
3.7.6 UPS function	Built-in UPS that can work offline	Customstom models only

### 3.8 Alarm instructions

Machine prot	<ol style="list-style-type: none"> <li>1. Set to the number alarm (can be set on the alarm length panel).</li> <li>2. No paper alarm, the whole volume of points ended do not reach the set number. If there is no manual shutdown, the machine will automatically stop and alarm within the set time to prevent the machine from idling for a long time.</li> <li>2. With a short circuit breaker protection switch</li> <li>3. Overtemperature and overload protection switch</li> <li>4. System overcurrent / undervoltage protection device (the UPS function option is valid only)</li> <li>5. Charger overcharge and overdischarge protection (the UPS</li> </ol>	Physical in line with
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## IV. Installation

### 4.1 ., Requirements for equipment installation conditions

specifications	parameter
Equipment use environment requirements	Temperature is 20-30 degrees / humidity is less than 75%
source	220V / 50HZ / single phase / second line; total power greater than 200W
Ground requirements and load-bearing requirements	Install table bearing above 100KG in a stable and dry place. The ground is flat without shaking
Ground and safety	Have reliable contacts on site and ground the equipment.

### Requirements for equipment installation conditions.

#### 4.2.1 Equipment installation specifications and safety requirements

422 Standard single phase three-hole socket shall be provided with reliable grounding, ground resistance not greater than 4 ohms. The machine connection must be connected to the ground wire (earth) and the connection resistance must not be greater than 0.5 ohms.

423 Power supply is 220V 50HZ, with power of less than 100W.

424 The power supply must be provided with an electric leakage protection device.

425 The temperature of the machine is 20-30 degrees, and the humidity should be below 75%.

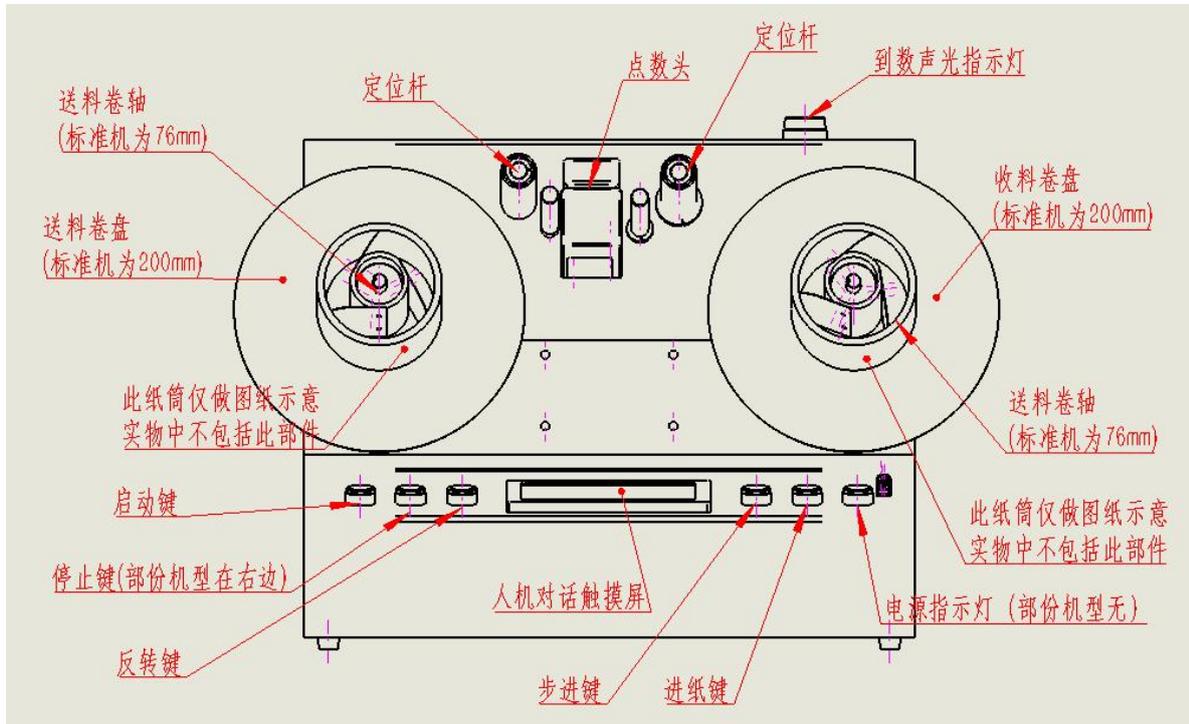
426 There are no loose and scattered cloth / belt / thread within one meter around the machine that are easily involved in the machine.

427 Operators are strictly prohibited to keep long hair and wear strip trim operation, in order to prevent accidentally involved in the machine causing injury.

428 The operator must wear gloves. The machine has some Class C sharp edge due to structural reasons. Do not work without protection to avoid causing personal injury.

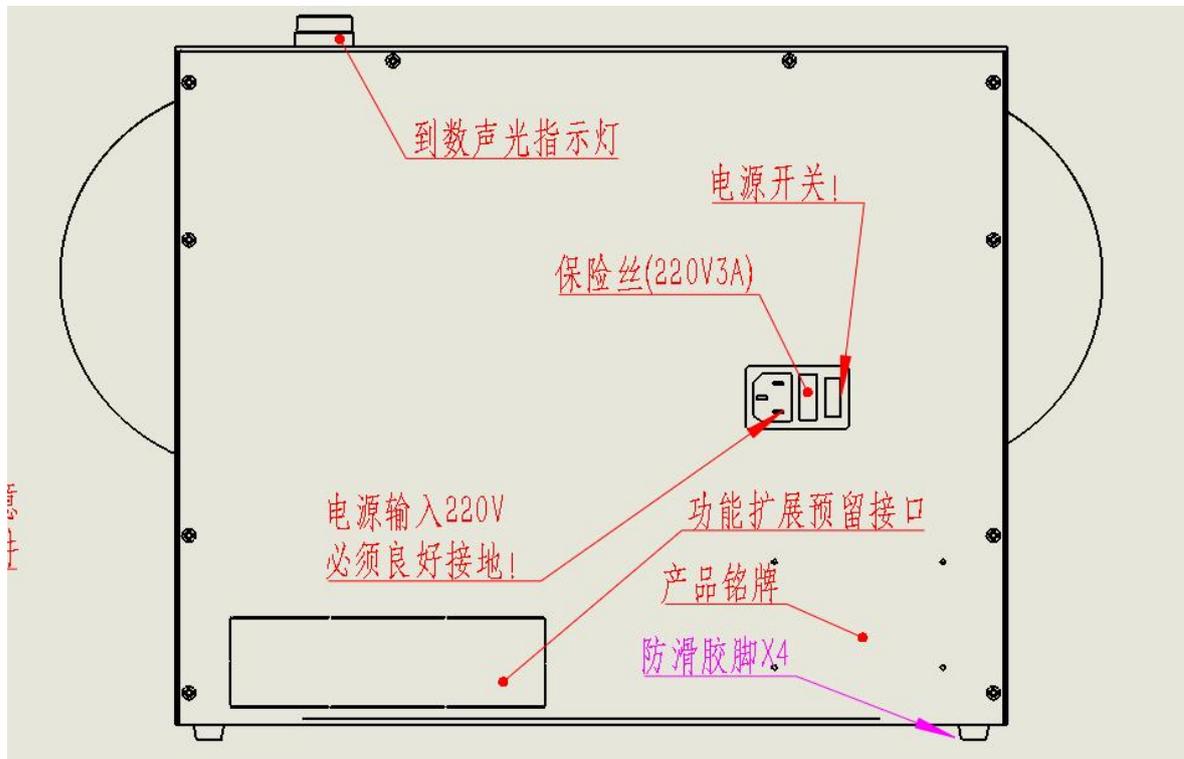
### 4.3 , Hardware function introduction

#### 4.3.1 S3 \*\* series model introduction (function panel and



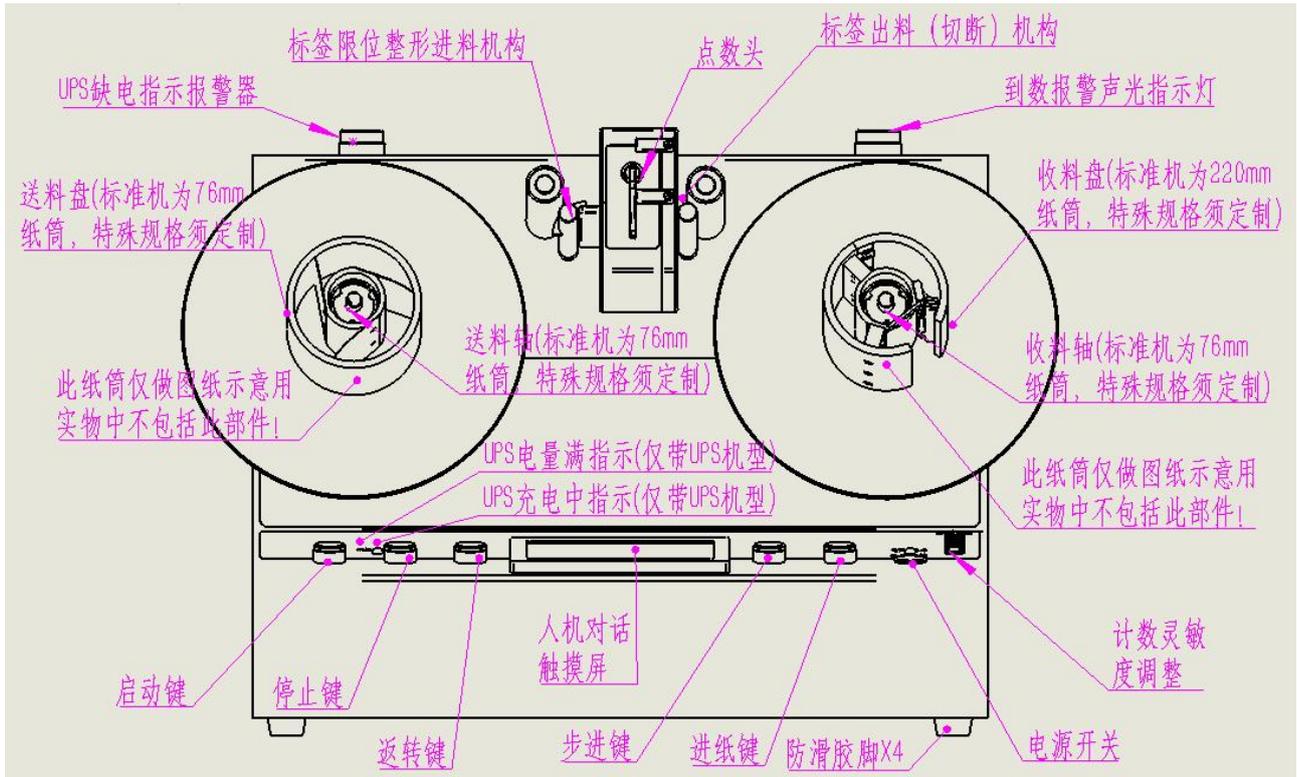
function)

S3 \*\* series front panel function (some buttons have different functions on some models, please refer to the physical objects)



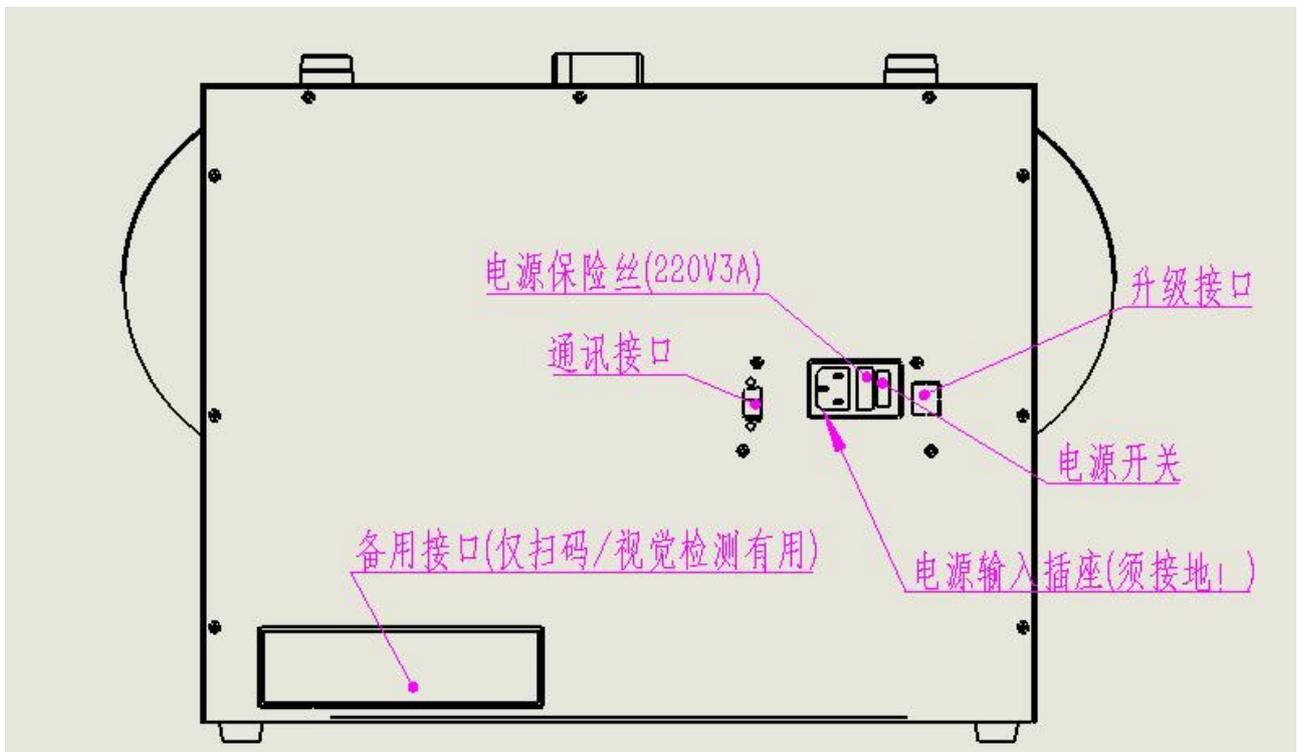
S3 \*\* series rear panel function

4.3.2 S5 \*\* series model introduction (function panel and



function)

S5 \*\* series front panel function (some buttons have different functions on some models, please refer to the physical objects)



S5 \*\* series rear panel function (some interfaces have different functions on some models, please refer to the physical objects)

### 4.3.3 Function description — front panel push-button part

4.3.3.1 Start / run button: Install the label volume, and after all the parameters are set, press the start button to close the close coil and start turning the close volume. Touch screen starts to count. (The startup function machine does not count).

4.3.3.2 , Stop / reset button: In the process of starting or turning around or during the automatic paper delivery, press the stop / reset button to stop and immediately stop the operation.

4.3.3.3 Turn / reverse button (this function is available for the customized model): During the stop state, press the turn / reverse button to reverse turn and roll the finished label back to the original.

4.3.3.4 Step / manual button (this function is available in the customized model): In the process of stopping, every step key, the label will automatically walk forward (when there is no label, the press will keep turning (press the stop key to reset), convenient to increase the mantissa or a single count after the point, and the step will be automatically counted.

4.3.3.5 Paper feeding / feeding button (customized model has this function): this button can automatically enter the paper, in the stop state process, press the paper feeding button, the label will automatically move forward, stop immediately after releasing the hand, and the paper will be automatically counted. The label used to count the header when sending the bid and saves the trouble and counting error of the manual drawing during multiple times. At the same time, the paper can be automatically cut into the paper with one key, which greatly facilitates the operation and improves the efficiency.

4.3.3.6 , Power switch button (this function is available for the customized model): it is used to turn off the internal power supply of the machine and stop working without the need to cut off the AC power supply.

4.3.3.7 , Power indicator lamp (this function is available for the customized model): This light is turned on when the power switch is placed in the state of "0 N".

4.3.3.8 Full power indicator light (customized U PS model): When charging, when the built-in UPS battery is fully charged, the light will automatically light up, and the internal automatically turn the micro current charged state. When this light is on, turn the AC power off.

4.3.3.9 Charging indicator light (the customized UPS model has this function): plug in the AC power supply. When the light is on, it is charging the internal battery pack, and do not turn off the AC

power supply at this time. It goes out when filling.

4.3.3.10 Power shortage indicator light (this function is available for customized UPS models): When this light is on, the internal UPS battery pack is not enough for 20% power. Please charge the battery as soon as possible.

4.3.3.7 Point / to number indicator light (sound and optical alarm, alarm time adjustable, or turn off the alarm): after the machine points (or meter) reaches the set number, the machine stops, the alarm rings, prompt manual processing.

4.3.3.7. Power supply indicator light (this function is available for customized models): When the power supply switch is placed in the "0 N" state, this light is turned on.

#### 4.3.4 Function description — rear panel button part

4.3.4.1 Power socket: insert the 220V 50HZ AC power supply work (charging), must use a well-grounded triangle socket, and ensure that the power supply system can be reliably grounded.

**Note: if the machine has specially equipped power cable with leakage prevention function, it must use the special power cord, and test the leakage protection switch on the plug at least once a month (press the test button can instantly power, then press the reset button to restore power), if the test found no power or no power, should immediately stop the machine and replace the same power cord!!! Otherwise, there is a risk of electric shock!!!**

4.3.4.2 AC power switch: turn off 220V AC power, "OFF", "ON" power.

4.3.4.3 AC power fuse: 220V 3A fuse, if burned out, it must be replaced with the same specification.

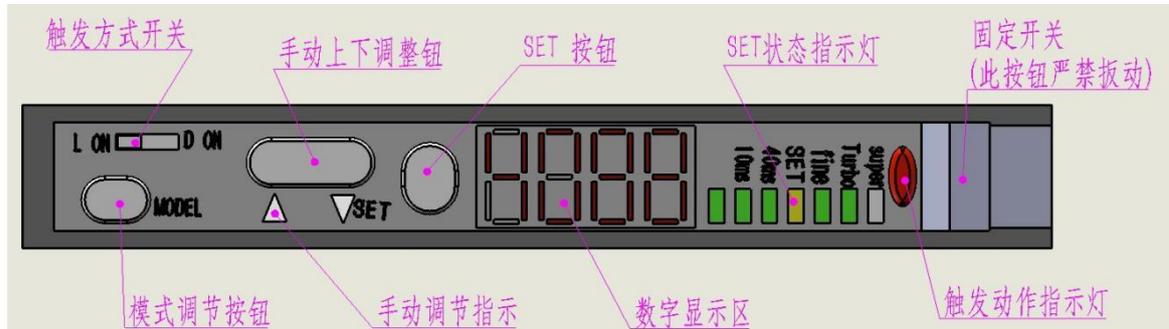
4.3.4.4 Upgrade the interface / communication interface: the manufacturer uses the internal communication port, please do not use it casually.

4.3.4.5 Standby interface: only used as an expansion when configuration code / tag printing quality and error detection.

4.3.4.6 Anti-skid rubber foot: can let the machine stably placed on the table, to prevent the effect of external force slippery surface injury and damage to the machine implement.

### 4.3.5 Sensor function description-Label sensor part

#### 4.3.5.1 , Introduction to the label sensor.



4.3.5.2 Fixed switch: This switch is used to fix the sensor, it is strictly prohibited to push, otherwise the machine will not work normally

do.

4.3.5.3 Trigger action indicator: After the sensor sensitivity is set, the light will turn on after a label is triggered. It can be used to detect whether the sensor sensitivity setting is effective.

4.3.5.4 , SET status indicator light: After pressing the "SET" key to enter the setting state, the light is on, and the light is off after quitting the setting. When unset, this lamp serves as a sensitivity intensity indicator.

4.3.5.5 , Digital display area: real-time display of sensor sensitivity numbers, only for reference.

4.3.5.6 , SET button: used to set the fixed point number sensitivity (reference 5 for setting method)..2

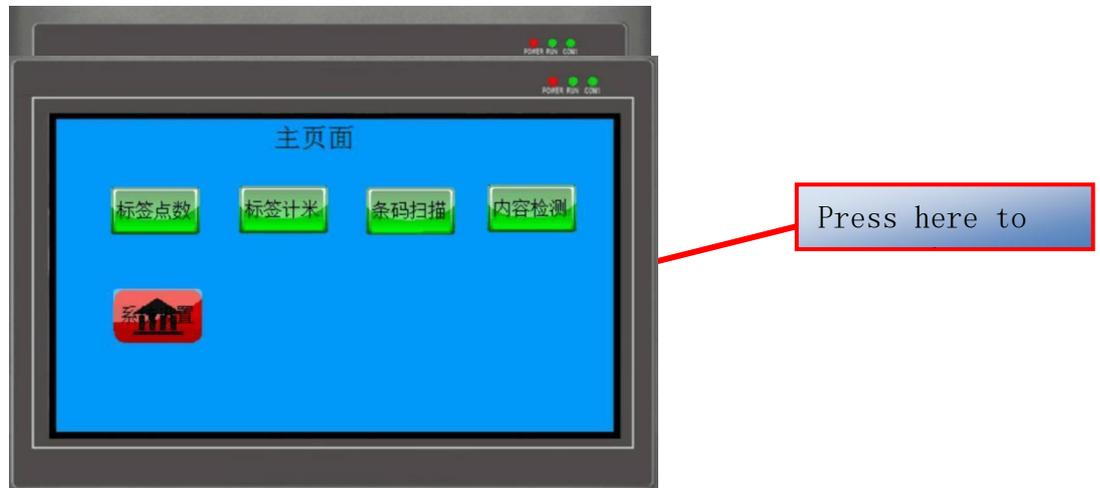
4.3.5.7 Manual adjustment button and indication sign: used to manually change the sensitivity, non-professionals please do not adjust.

4.3.5.8 , Mode adjustment button: used to modify the internal parameters of the sensor. **No non-professionals to adjust at will, serious can cause the machine can not work!!!**

4.3.5.8 Trigger switch: to modify internal sensor parameters. **No non-professional personnel to adjust at will, serious can cause the machine can not work or the number of points is not correct!!! Usually it is placed in the state of the D on.**

#### 4.4 Co., Software functions and Settings

4.4.1 Boot screen: the machine is powered up, the power switch is opened, the touch screen is lit, and the boot screen is displayed as follows:



4.4.2 Enter the system: tap the "Enter the system" on the touch screen to display the "Home page" screen as follows:

4.4.2.1 Label Points: Tap the "tag Points" on the touch screen to enter the tag point function (it requires ordering to take effect. If the machine you order does not contain the function of tag points, the function button is invalid).

4.4.2.2 Lab meter: tap the "label meter" on the touch screen to enter the label meter function (this function must be ordered to take effect. If the machine you order does not contain the label meter function, this function button is not valid).

4.4.2.3 Barcode scanning: tap "bar code scanning" on the touch screen to enter the bar code scanning function (this function must be ordered to taking effect. If the machine you order does not include bar code scanning function, this function button is invalid).

4.4.2.4 Content detection: Tap "Content Detection" on the touch screen to enter the content detection function (this function must be ordered to taking effect. If the machine you order does not contain the content detection function, this function button is invalid).

4.4.2.5 System Settings: gently press the "System Settings" on the touch screen to enter the system Settings function, which can set up personalized functions. **Note: Improper system setting will cause the machine not to work properly, so non-support personnel should not change the setting inside at will, or write down the original setting parameters before changing the setting,**



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in order to restore the original setting parameters when the machine has problems. This point is very important!!!!!!!!!!!!!!

4.4.3 Press "Tag Points" on the touch screen to display the "Tag Points function" working screen as follows:



4.4.3.2 Starting point head number setting: when the paper tube, there are some marks on the paper tube can not automatically point, at this time, you just count the number of marks from the point to the paper tube, directly fill in the corresponding number here. The tags are automatically added to ensure the accuracy of the points. Avoid the need for manual statistics.

4.4.3.3 , Current quantity display: The number of current point labels is displayed in real time. When the number is equal to the set number of points shown here, the machine will automatically stop and the sound and light alarm prompts manual processing. If the quantity is too fast, the quantity displayed here will have less delay. Please take the display as appropriate when the machine stops completely. The maximum display is 0-99999pcs.

4.4.3.4 Set the number of points: enter the number of desired points here. When the number displayed here is equal to the real-time points, the machine will automatically stop and the sound and optical alarm prompt manual processing. Maximum, 0-99999pcs.

4.4.3.5 , Zero: reset the current number of displayed points, press the current number display, will reset to the starting point set number, so as to reset the number of points from the starting point again.

4.4.3.6 Running speed setting: The number input here is the machine running speed (the larger the number, the faster the speed). The recommended number is between 5,000 and 10,000 (with a better median). The narrower the label suggests the slower, and the heavier the label suggests the slower. If the machine is running slower or the point is inaccurate, reduce the point speed. Different labels may require different optimal speeds, please pay attention to collect the optimal speed in daily life to make the

machine achieve good results.

4.4.3.7 Pre-stop number setting: because the machine can run very quickly, so in the instantaneous stop on the machine and

The impact of the label is great, so enter the number of pre-stop deceleration here, and the machine starts to slow down to a slow speed when the first few labels reach the set number of points (controlled by the "deceleration speed" set on the screen) to protect the machine and the label. The number can be input as 1-20, for example, if the fixed point number is 1000, the pre-stop number input is 5, the running speed is 10,000, and the deceleration speed input is 1000, the machine starts to slow down to 1000 at the speed of 10,000 to the point number reaches 995, and then points the last 5 labels at a speed of 1000. This becomes a slow speed at 1000 to stop and avoid damage to the label and machine.

\* The narrower the label the larger the number of pre-stops, the heavier the label the larger the number of pre-stops. Be careful to collect the best pre-stop quantity in daily life to improve the machine.

\* If the number of points is set for small hours or below 20, it is recommended to set the pre-stop number to 1 and reduce the running speed, otherwise the machine is prone to errors.

4.4.3.8 Reducation speed setting: The speed set here is the running speed of pre-stop. When the pre-stop condition is reached, the machine will automatically turn to the speed of this set. It is recommended to set the speed of 10%~30% of the normal running speed, especially with the automatic paper cutting function, the deceleration speed value should not be greater than 3000. Collect the optimal deceleration speed on a daily basis to improve the machine. The smaller the label should be set at a smaller deceleration speed.

4.4.3.9 Alarm information display area: the working status of the machine alarm: the end of points shows "points complete". When other alarm situations occur, the alarm reason will be displayed here. Please remove the fault according to the prompts.

4.4.3.10, Reverse / swing button: the equivalent function of the external mechanical button. See also in 4.3.3

4.4.3.11 Step / click button: the function of external mechanical button. See also in 4.3.3

4.4.3.12 , Cut-off button: the machine with automatic paper cutting function (the customized model needs to have this function). After the points stop, the machine will automatically cut off from the middle blank of the two labels, without manual intervention. Model press without automatic cut-off function is invalid.

4.4.3.13 , Reset button: equivalent to the stop function of

the external mechanical button. See also in 4.3.3

4.4.3.14 Return button: pressing the return button will return to the home page. See also in 4.4.2



This content is special for the custom machine, the function will be dedicated to another function introduction, omitted here.

4 Press "Scan code reading" on the touch screen, and the working



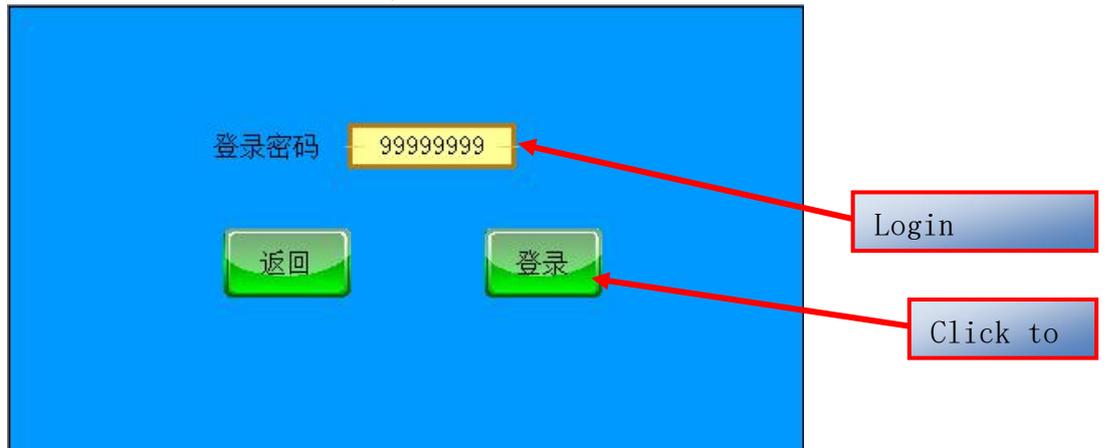
screen of "Scan code reading function" is displayed as follows:

This content is special for the custom machine, the function will be dedicated to another function introduction, omitted here.

4 Press the "Tab Content Detection" on the touch screen to display the "Tab Content Detection Function" working screen as follows:



This content is special for the custom machine, the function will be dedicated to another function introduction, omitted here.



4.4.6.1. Login Password input box: The first login does not need to enter the password, but directly press "Login" and then enter the system setting master page. However, if you change the login password after login, the next login, you need to enter the modified login password before logging in (you must remember after the password modification, once forgotten, it must be sent back to the manufacturer for decryption, which may involve the cost, and is not covered by the warranty)

#### 4.4.7 The function parameter set screen



4.4.7.1 Main page: Click "Main page" to enter the function selection interface when starting up.

4.4.7.2 Read code setting: click the function setting of read QR code, another introduction, here omitted.

4.4.7.3 , Password modification: click to change the login password (see).

4.4.7.4 Cut off delay: the cut off delay time can be set, and the corresponding delay time can start the knife (0-99.9 seconds).

4.4.7.5 , Alarm delay: the duration of the alarm sound ringing can be set, which can be set according to the corresponding needs (0-99.9 can be set second).

4.4.7.6 Alarm switch: point "on", when the points arrive or have an alarm,

will remind the operator to deal with sound and light. Point "close", No sound and light matching at any time to reduce noise and keep the environment quiet.

4.4.7.7 Free shutdown: After the whole roll points end, but does not reach the set number, the machine will always be in a rotating working state. At this time, if no one is present or does not manually stop, the machine will automatically stop and alarm within the set time, to prevent the machine from damaging the equipment for a long time.

4.4.7.8 Meter ratio: used as meter meter correction meter error, belongs to the customized function, another introduction, omitted here.

4.4.7.9 , Shutdown displacement: used as the setting when scanning code and air capacity detection, it is a customized function, which is another introduction, which was omitted here.

4.4.7.10 Cut off delay: the cut off delay time can be set, and the corresponding delay time can start the knife (0-99.9 seconds).

4.4.7.11 Start speed: the initial speed when the machine starts. In order to ensure the starting translation of the machine to prevent the impact of the machine at high speed, the machine is set to start at a slower speed and increase the ladder speed (0-999 can be set).

4.4.7.12 , Acceleration spacing: After the machine starts, the transition from the starting speed to the maximum speed of each acceleration spacing, if set to 1000, each acceleration jumps at a spacing of 1000. If the start speed is 1000 and the acceleration spacing is 1000, the speed rises from 1000,2000,3000... The smaller the number, the smoother the rise, and the smaller the impact. The larger the number, the faster the rise, and the greater the impact (set 0-999)

4.4.7.13 , Increment time: the time it takes for the machine to transition from the start speed to the maximum speed, that is, how much time it takes for the machine to transition from the start speed to the maximum speed. The smaller the number, the faster the rise, and the greater the impact. The smaller the number, the smoother the rise, and the smaller the impact (set 0-999S)

4.4.7.14 Cut off displacement: the automatic cut off function is special. In order to avoid the machine displacement and offset, the machine will automatically find the best point at each automatic cut off. This function is used to set the cut off position. If the cut-off is not satisfied with the position, it can be set from here. The smaller the value is, the more biased the incision is to the left side, and the larger the value is to the right side (set 0-99999).

4.4.7.15 , Return: Click to return to the previous page.

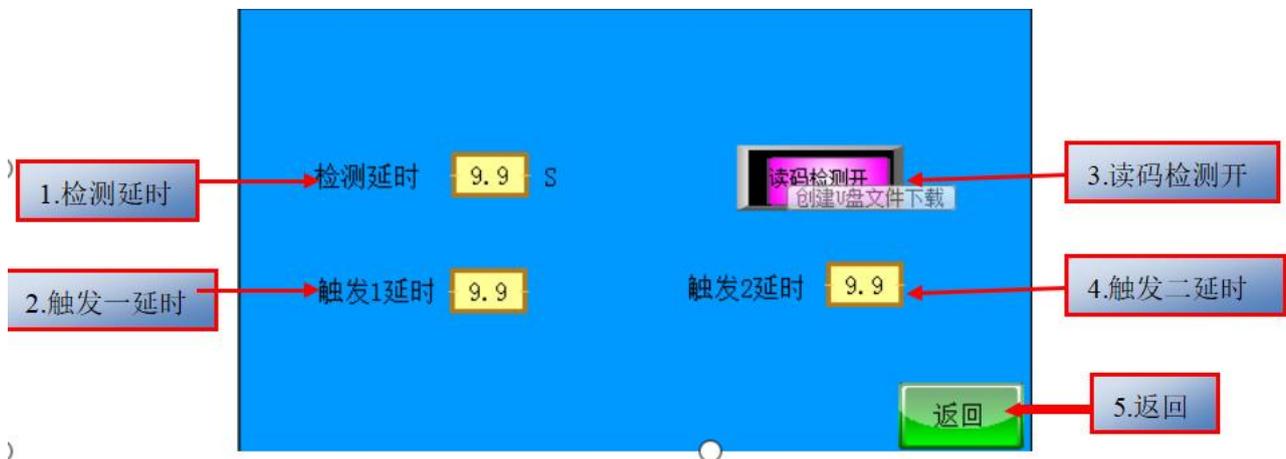
4.4.7.16 Step back speed: only when using the step back function (customized version), press the label to go back to one. This function sets the speed at which the retreat proceeds. The smaller the value, the slower the drop speed, the faster the drop speed (set 0-9999)

4.4.7.17 Step speed: Only when using the step function (customized version), push the label to walk forward one bit. This function is used to set what speed when progress. The smaller the value,

the slower the stepping speed, the larger the value, the faster the stepping speed (can be set to 0-9999)

4.4.7.18 Automatic cutting: set when open, the label will be automatically cut off when arriving, and the label will not be automatically cut off when the points arrive. This feature is only valid for automatic disconnection functions.

**4.4.8 The "Read Code Settings" screen is as follows:**



The "Read Code Settings" function needs to be customized. If this function can not be used, please do not change this page setting. Improper settings will cause the machine to not function normally. If the machine cannot work due to unauthorized changes, it is not covered by the warranty

#### 4.4.9 The "Modify Password Settings" screen is as follows:



4.4.9.1 , Enter the original password: If you want to change the login password, you need to enter the original password "0" first.

4.4.9.2 Enter a new password: directly enter any number of the new password (maximum 8 digits), (password modification must be kept in mind, once forgotten, must be returned to the manufacturer for decryption, may involve payment, and is not within the warranty).

4.4.9.3 Then when entering the new password is complete, click OK to allow the new password to take effect.

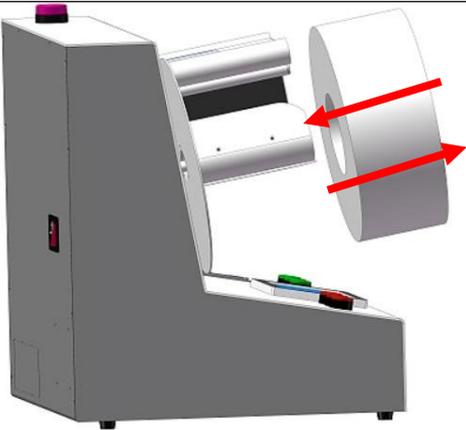
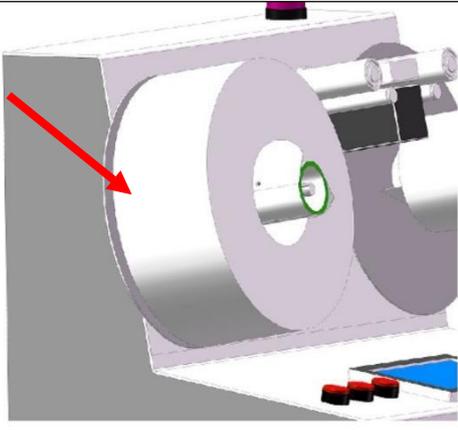
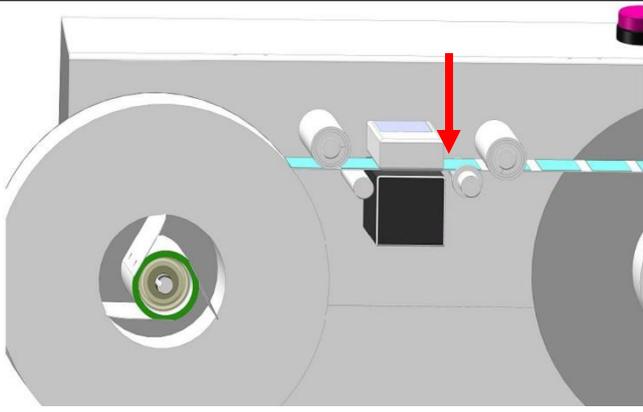
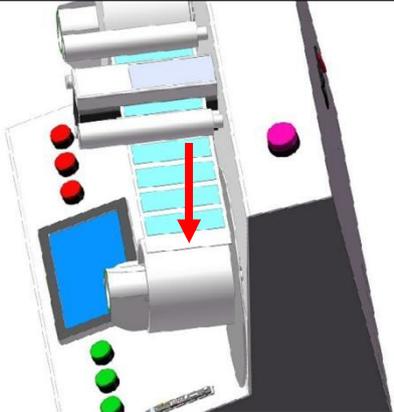
4.4.9.4 Password cancellation time: this time indicates how much time does you not need to enter the password setting interface again after entering the password setting interface again. After this time is exceeded, you are prompted to enter the password again.

4.4.7.5. Return: Click to Return to the previous page.

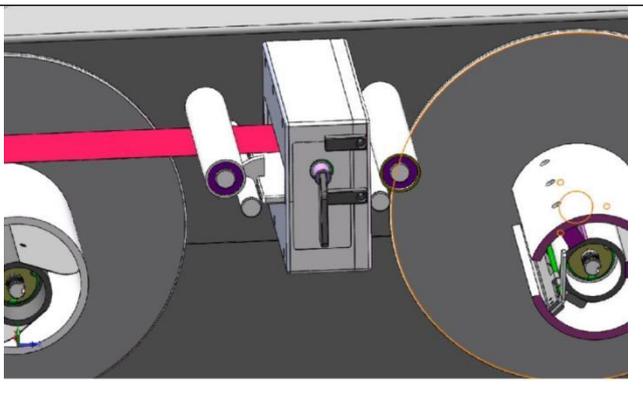
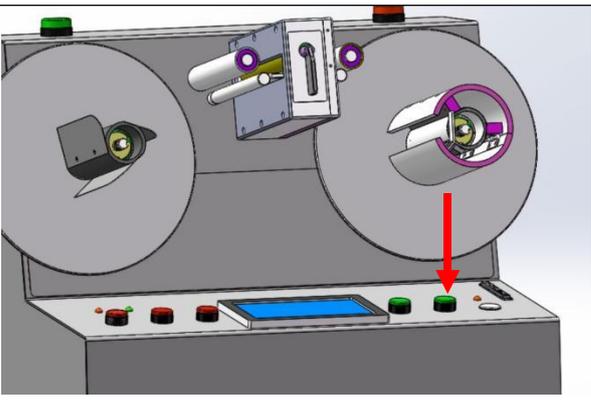
## 5. Quick reference

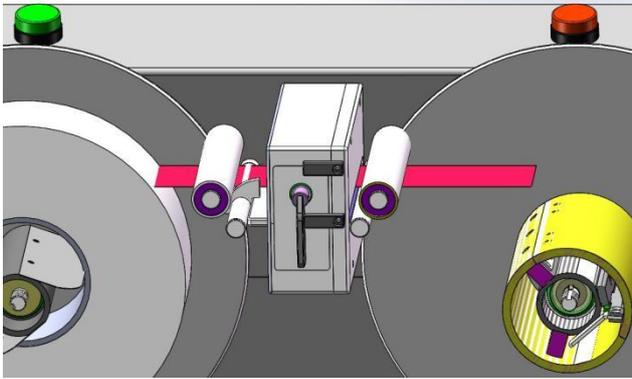
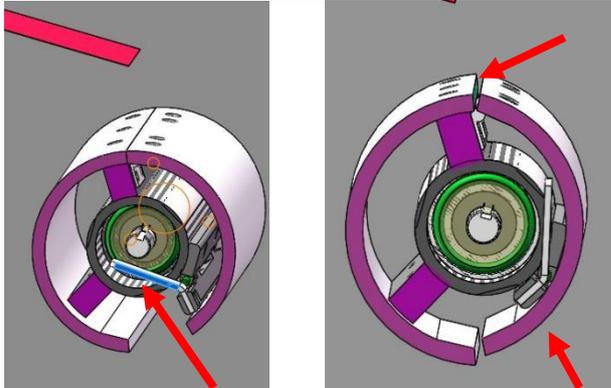
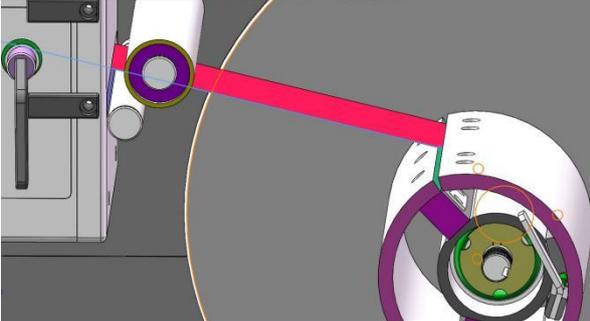
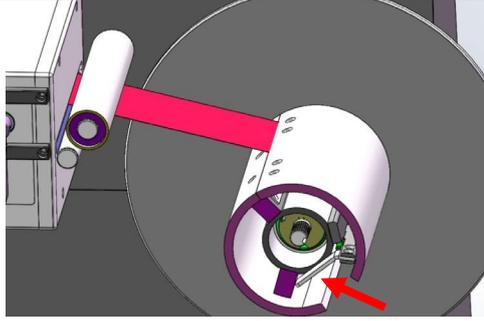
### 5.1 , , Label installation operation procedure

#### 5.1.1 (SD3 \* \* series):

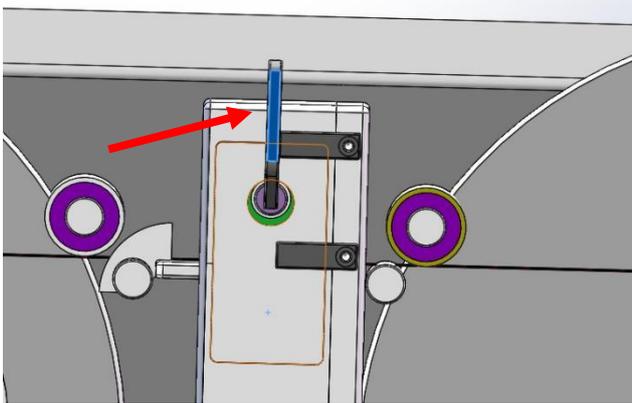
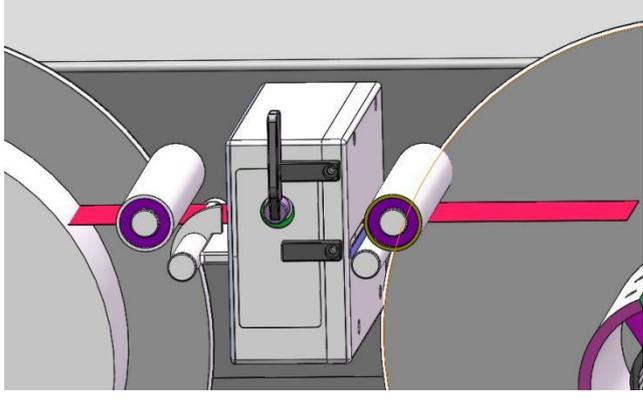
	
<p>Insert the label roll vertically into the roll shaft (careful blade trim) Take out the same method.</p>	<p>Push the label paper onto the delivery coil and press around</p>
	
<p>Pull the label out through the dot header (label up)</p>	<p>Attach the label head to the collection reel</p>

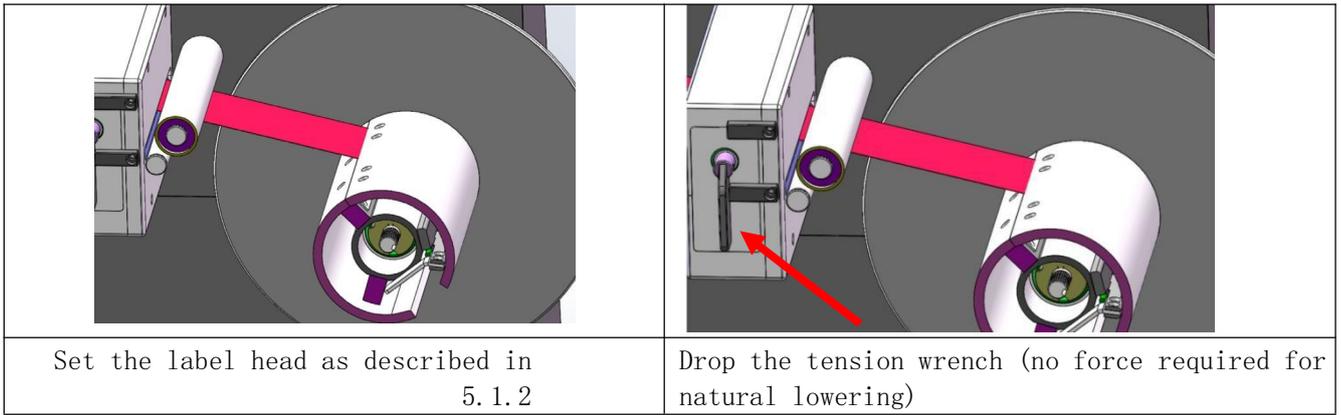
#### 5.1.2 (SD5 \* \* series) Automatic paper feeding, no cylinder collection: the same method as DER-D3 \* \* series

	
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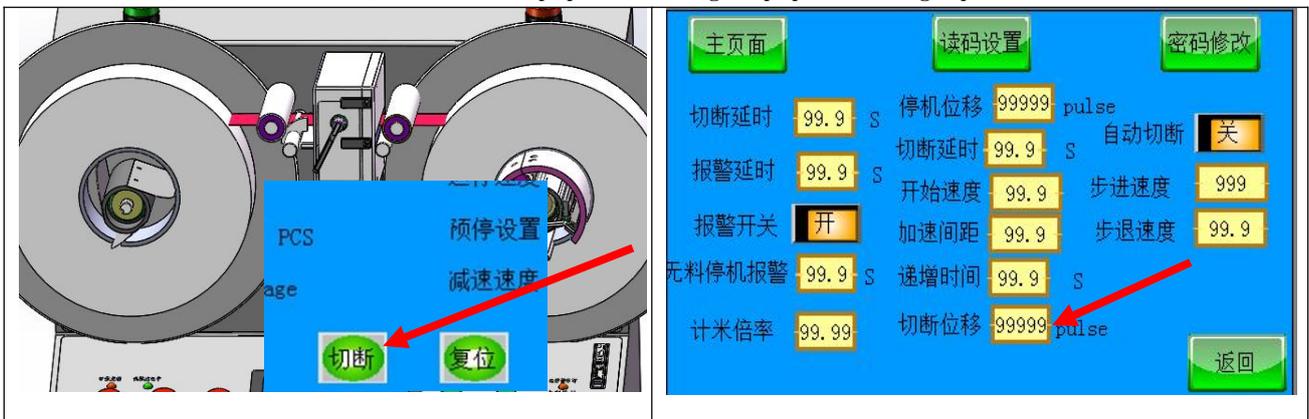
<p>Put the label manually into the rubber wheel inside the tip (automatic feed)</p>	<p>Press the feed button on the right, the label will automatically send from the point head Come out, release the button at the right length and stop.</p>
	
<p>Label through points (marked side up)</p>	<p>After pressing the wrench up, the reel will tighten inward to reveal the clip position</p>
	
<p>Put the label into the clip (flat)</p>	<p>Reverse wrench, close reel reset clamp label</p>

5.1.3 (SD5 \* \* series) Manual paper feeding, no cylinder collection:

	
<p>Hold the pinch wrench on the head head position</p>	<p>Manually push the label through the header (marked side up)</p>

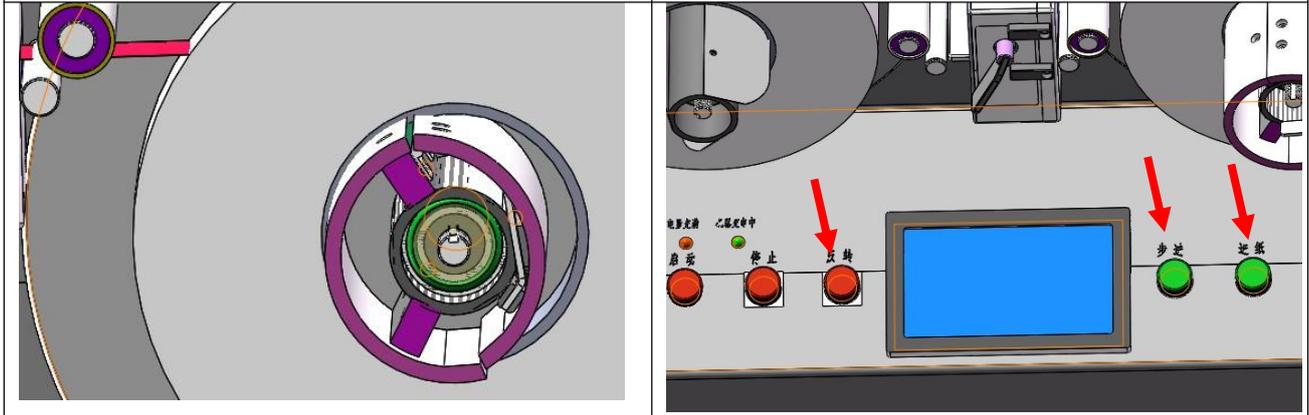


5.1.4 (SD5 \* \* series) Automatic paper cutting / paper taking operation method:



After the points, press the "Cut off" button on the screen to automatically cut off the label without manual intervention.

If the cut position is inaccurate, adjust the Cut Displacement data in Settings, and reduce the knife to the left and vice right. Single times  
The word can't be adjusted too much, please debug many times until satisfied.



After cutting, lift the press wrench of the scroll (press the reverse side of the paper Method) Remove the counted paper roll (careful paper spread)

Then press the step / feed button again to automatically (Ref Paper method), points again, can also be returned to reverse the punctuation points.

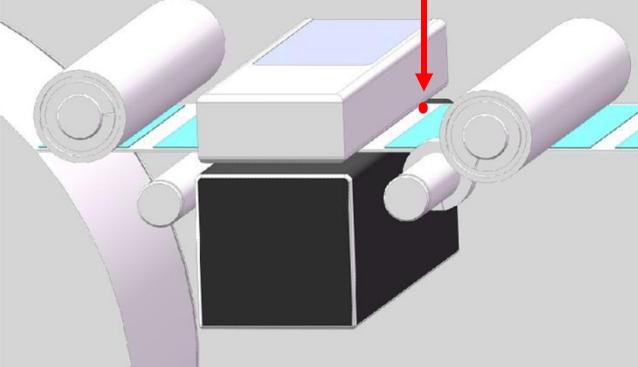
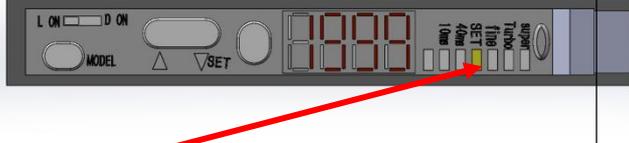
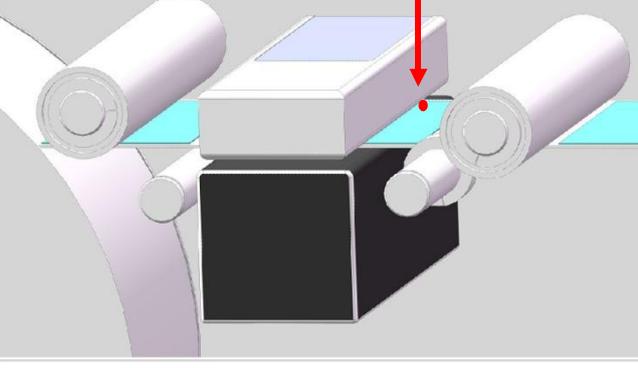
5.2 Label sensitivity adjustment operation steps:

5.2.1 Tag adjustment considerations:

5.2.1.1 The light transmittance of different labels is different, so when using different bottom paper labels, we generally need to readjust the sensitivity of the sensor, so that the point sensitivity of the standard lock core to achieve the best, to achieve accurate points.

5.2.1.2 , The light transmittance of the labels of different materials is also different, so when using different labels, it is also necessary to adjust the sensitivity of the sensor, so as to achieve the optimal point sensitivity of the label and achieve accurate points.

5.2.2 Illustration of operation

	<p>SET key Digital display area Light intensity light strip area</p>  <p>2. Stop when the sensor number is maximum and press the "SET" button</p>  <p>3. The SET indicator light is on.</p>
<p>1. Move the blank area between the labels under the red spot of the dot header (Or stop when the tag to the right)</p>	<p>Sensor settings and status</p>
	<p>SET key Digital display area</p> <p>5. Stop when the sensor number is maximum and press the "SET" button. The digital display becomes "- - - -" (some sensors are not---- But the result is the same) three flashes after the normal.</p> 
<p>4. Move the label (without character area) under the red spot of the dot header (Or move the tag to the sensor number on the right to display an hourly stop)</p>	<p>6. Sensor setting is completed and the operation begins.</p>

5.2.3 operating steps:

5.2.3.1 Put the label paper of the required points and pass the label through the machine points according to the normal procedure. Then slowly moving the label alpoints the light within the head at the center between the two labels. The value displayed on the right sensor at the same time should hold the label still when a large number (relative to the point of light is on the label).

5.2.3.2 Open the dust cover of the amplifier, press the SET key button above, and the SET indicator on the amplifier will turn on.

5.2.3.3 Then slowly move the label to point the spot inside the label (no character printed), when the value displayed on the right sensor should be a small number (relative to the spot between the labels) and keep the label still.

5.2.3.4 Press the "SET" key on the amplifier again, and then the number in the digital display area on the amplifier becomes

The----(part sensor will not become a But with the same results), it returned to normal after three flash display.

5.2.3.5 After setting, cover the sensor dust cover and the normal points.

**Important tips: other buttons and Settings on the sensor, non-professionals are strictly prohibited to press and adjust, otherwise the resulting points are abnormal or inaccurate, or even the consequences of the machine cannot work, shall be borne by the relevant personnel, the company does not bear such responsibility, and the fault caused by this does not belong to the scope of the company's warranty. Please pay attention to customers!!!**

### 5.3 Introduction to point machine operation (quick operation):

5.4 Machine point operation (please wear gloves, long hair / filaments accessories and items. Unprotective work is strictly prohibited):

5.4.1.1 , Place the machine on a stable-level work table. Make sure there is no easy thing around.

5.4.1.2 , Connect the machine and the ground wire (ground the non-power plug to the ground), and connect the power supply to the 220V machine with a special Qinyuan line.

5.4.1.3 , Turn on the A C220V power switch (on the power outlet) and then power on the machine (on the front panel). At this time, the machine is powered on, the power indicator is on, the touch screen is on and enters the system standby.

5.4.1.4 Press 5.1 to load the label roll to the left reel, and then press the label header to 5.1, the introduction to the reel.

5.4.1.5 Click "enter the system" of the touch screen, then click "label points" and enter the working interface.

5.4.1.6 Click the "starting point setting" of the touch screen, enter the number of labels of the label head (from the number of labels

between the point head to the receiving reel), the automatic paper entry model does not need to enter this number, just put 0.

5.4.1.7 Click the "running speed" of the touch screen, enter the speed of the points (the larger the width of the label, the speed can be adjusted accordingly, but the smaller the label width, the speed should be lowered accordingly, and the label with poor transmittance., The speed should also be reduced accordingly to ensure the accuracy. Take the standard label of 40mm width as an example, the speed is 100%, that is, the maximum speed, other please set according to the situation).

5.3.1.7.4.7, Click on the "pre-stop setting" of the touch screen to input the number of pre-stops (reference 43, in theory, the narrower the label, the faster the speed, the larger the number of pre-stop should be input, please set according to the specific situation).

5.3.1.8 Click on the "deceleration speed" of the touch screen, and enter the speed of the number when you want to slow down (refer to 4.4.3.8. In theory, the narrower the label, the faster the speed, the smaller the deceleration speed input number should be, please set according to the specific situation).

5.3.1.9 Set the point sensitivity of the label paper (reference 4.3.5 and 5.2). When replacing different base paper and labels, you need to reset the sensitivity. The quick sensitivity setting method is attached to the product panel, please refer to.

5.3.1.10 When the above parameters are set, press the Stop or reset key first, and then press the start key to start.

5.3.1.11 When the number of points reaches the set number, the machine will automatically slow down and slow to stop slowly (depending on the number of pre-stop and the speed setting are different, if there is no automatic deceleration and slow stop phenomenon, then the number and speed of pre-stop are not set correctly, then increase the number of pre-stop setting number. If the machine automatically stop, the machine went a long slow stop phenomenon, then the number of prestop is too large, should reduce the number) and screen prompt and sound and optical alert reminder (if there is no sound and optical alarm alert, please check whether the last point after no stop reset or whether the function is closed in the system setting).

5.3.1.12, After counting, if you need to turn the label, press the "Invert / Turn" button when the machine stops, and the machine will automatically turn the label back to the uncounted state with points.

Note: Do not press the "Reverse / turn" button during machine counting to prevent machine damage.

## VI. Notes for the daily maintenance of the machine.

### 6.1 , Machine cleaning

6.1.1 The surface of the machine should be kept clean in use, because the paper tube will after the paper, use the air gun or clean cloth to remove dust and dirt.

6.1.2 Never use organic solvents (such as day Na water / alcohol / wipe machine water, etc.) to clean the machine surface (including paint surface / character / touch screen / label, etc.) to prevent corrosion of the machine surface.

6.1.3 The touch screen is a fragile and complex electronic component. Use a sharp device (such as nib / blade / toothpick / nail) to avoid damage (the external damage of the touch screen is not covered by the warranty). Apply finger surface light press or touch pen operation.

6.1.4 Without counting, remove the coil and label in case the paper roll is permanently deformed to pressure the coil fin for a long time.

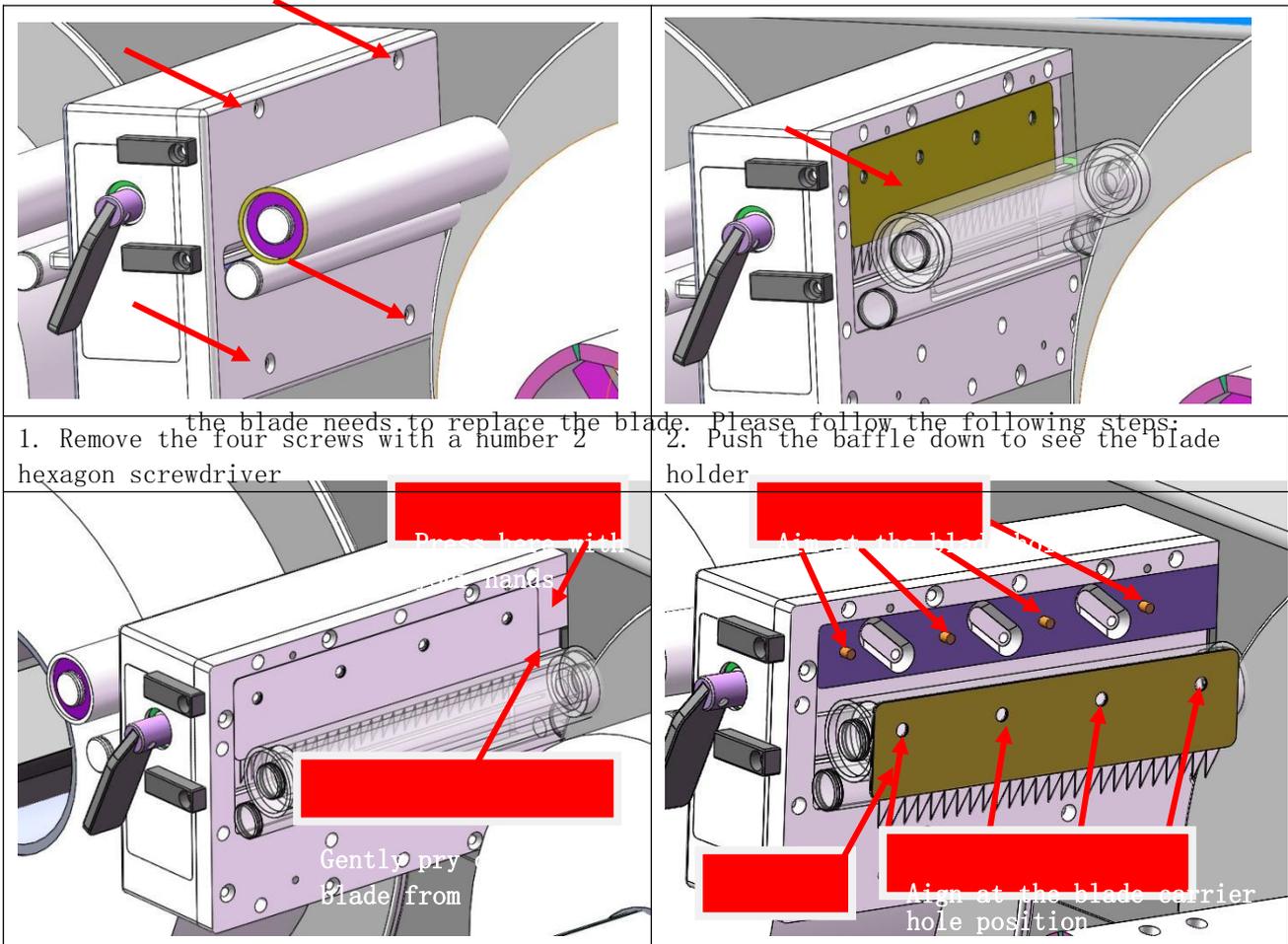
6.1.5 When no points are counted, please cut off the power switch and unplug the power plug to avoid the unnecessary energy consumption and affect the equipment life

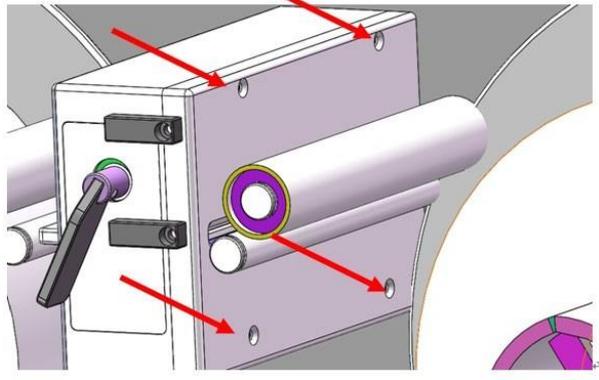
life.

6.1.6 When not used for a long time, please cover the dustproof cloth and put it in a dry environment.

### 6.2 Replace the cutting knife

6.2.1 After the machine works for a period of time, the cutter may wear away, resulting in continuous paper cutting and uneven cutting. At this time,



	
<p>5. Install the tool gear in the reverse way, and lock it with a screw (not too tight, otherwise the cutter will die).</p>	<p>6. Click the "cutter reset" button on the touch screen to hear the normal cutter operation sound (if you hear the abnormal jam sound, press it immediately After stopping the key and reinstalling the blade)</p>

### 6.3 , Battery maintenance

6.3.1 Each charging time is preferably between 5-8 hours to make the battery fully charged.

6.3.2 After the low voltage alarm, it is best to charge within 10 minutes, otherwise it may be cut off at any time.

6.3.3 The charging place should be kept ventilated and dry, and there are no easily explosive items nearby.

6.3.4 Turn off the panel power switch for charging, but the power switch on the socket must be turned on.

6.3.5 When the working time after each full charge is reduced to about 50%, please replace the new battery (the battery of the same model and capacity must be replaced, please inform the manufacturer or professional support personnel to replace it. The damage to the machine caused by the battery replacement is not included in the warranty scope, and the battery replacement personnel shall be responsible for the other consequences caused).

### 6.4 , Leakage protection switch

**6.4.1 The machine has a power cord with leakage protection, please press the test button on the plug at least once a month, to ensure that the equipment has leakage can move and break the circuit, to protect the safety of personnel.**

**6.4.2 After the power cord with leakage protection is damaged, it must be replaced with the same power cord. If other power cord is replaced at will, there are potential safety risks causing personal electric shock, the company will not be responsible for any problems caused by this.**

### 6.5 , machine maintenance

**6.5.1 The internal circuit of this machine is complex and cannot support self-maintenance. If the machine has a functional fault, it must be**

returned to the original manufacturer for repair. Open the shell to repair the machine may cause machine damage and even personal safety accidents! Any fault caused by opening the shell to repair the machine without permission is not within the scope of warranty, and other consequences caused shall be borne by the maintenance personnel.

6.5.2 During the use and maintenance process, please protect the original seal behind the machine, and strictly prohibit damage and removal. If the damage caused by the original seal, any problem caused by the machine is not covered by the warranty, and other consequences caused shall be borne by the user

#### 6.6 Use safety

6.6.1 Due to the functional design of the machine, there is some class C class sharp edge. For use and maintenance, please use gloves and pay attention to the operation safety, and be careful to prevent scratches.

6.6.2 The weight of the machine is about 20KG, please operate two people at the same time, and to prevent falling injuries and equipment.

## 7. Machine troubleshooting and troubleshooting.

7.1 If the following faults occur during the machine, please compare.

1	The machine has no electricity	1. Whether the power cord is damaged	Replace the normal power cord
		2. Whether the power switch is turned on	Open the power switch (both front and rear)
		3. Machine damage	For the internal failure, it must be returned to the factory for repair
2	The machine does not turn	1. There is rotation sound, but the receiving / send reel does not turn	Manual turn the turntable, if not restored must return to the factory for repair.
		2. Never turn after one order	You cannot start again without pressing zero after counting the points
		3. Points can turn but reverse and do not turn	For the internal transmission structure failure, it must return to the factory for repair
3	The button doesn't work	1. All of the buttons don't work	Please restart the power cut after 1 minute. If not, you must return to the factory for repair
		2. The single button does not work	Please slightly increase the press force, if you can not resume, you must return to the factory for repair
4	The touch screen button is missing need	1. All of the buttons don't work	Please restart the power cut after 1 minute. If not, you must return to the factory for repair
		2. The single button does not work	Please slightly increase the press force, if you can not resume, you must return to the factory for repair
5	Touch screen Black / Blue screen	1. Run either the black screen or the blue screen	Please restart the power cut after 1 minute. If not, you must return to the factory for repair
6	Do not call the alarm after counting	1. Normal points, and no alarm after shutdown	1. Is this feature turned off in the system 2. Stop / reset after points. 3. The above has no problem and must be returned to the factory for maintenance
7	Low voltage does not alarm	The battery is up, but the low voltage light is not on	It must be returned to the factory for maintenance
8	The charging indicator light is not on	The indicator light is not on in the battery filling / charging	1. Plug-in or not and the power supply is normal 2. The above has no problem and must be returned to the factory for maintenance

9	Turn abnormal sound	There is a lot of abnormal noise when rotation	<ol style="list-style-type: none"> <li>1. Whether the label volume is too large (over 3KG)</li> <li>2. Turn the collecting / release reel manually.</li> <li>3. If not restored, it must return to the factory for repair.</li> </ol>
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### Viii. Warranty Terms

8.1 The normal use of the machine is guaranteed for one year, including the main engine and all accessories.

8.2 The company will charge appropriate accessories and travel expenses.

8.3 After the original seal is damaged, any problem caused by the machine is not covered by the warranty.

### IX. After-sales service

After-sales service telephone number: 86755-83203237

Mobile phone: 13602562576

Contact person: Jason Wu

Company address: Room 1806, Block 3, Jinyun COFCO, Qianjin 2nd Road, Baoan District, Shenzhen, China