

STEP ADVANCE PALLET WRAPPER FULLY AUTOMATIC HORSESHOE TURNTABLE (MANUAL)



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COMPANY INTRODUCES

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We offer a wide range of packaging products and solutions, and web design and engineer production lines specifically built to your needs.

Our motto is simple: Sal-Tech Easy Packaging makes your life simpler through engineering and good design, and your job less stressful. We Keep Things Together."

Gunnar Salbæk Owner/CEO

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1 Basic Information

1.1 Manual purpose

This manual is intended for training professional users and operators. With the help of this manual, you will be familiar with the pallet wrapping machine and its optional functions, enabling you to use, operate, manage and maintain the machine in a safe and effective manner.

User notice:

- The user must operate the machine in accordance with all safety instructions and procedures and all safety procedures in the work area in this manual;
- To ensure that the machine is properly installed, debugged, operated and maintained, these operations can only be performed by fully and appropriately trained personnel;
- Ensure that the use of the machine is in full compliance with laws and regulations which have the force of law.

1.2 To operator

This manual is part of the equipment. This information helps machines operate safely and efficiently.



Notice:

Please read this manual thoroughly before operating the machine or executing any procedure.









1.2.1 Primary contents

The source language of this manual is Chinese. The source Chinese text will be legally binding to prevent any discrepancy between the other translated text and the source text.

Notice:

As we continue to improve and develop our products, it is not always possible to provide real pictures of every detail of the machine. Therefore, the illustrations always show a typical standard machine.









1.2.2 Supplements and other information

This manual has been carefully written based on our experience and the latest knowledge. Therefore, the information in this manual is valid and correct at the time of publication (see cover).

As we continue to improve and develop our products, modifications to the machine are part of the internal process. This means that you may receive supplements and other information later, including corrections or improvements.



Notice:

Add these supplements to this manual to ensure that the customer always has the latest version of the manual.

1.3 Agreement

This user manual uses the following agreement

1.3.1 Warning

This user manual lists the following warnings:



Warning

It indicates a risk of personal injury or even death.



Warning

It marks the risk of malfunction or damage to the machine.



Notice

Used to highlight some information.











1.3.2 Printing and creation agreement

- There is always a bullet between lists and enumerations that do not have a specified order.
- It must be performed in the order specified by the number in the process.
- · Abbreviations are defined when the manual is first used (except in the title)

1.4 Environmental protection

Please comply with the disposal of used or replaced parts and materials described in this document. All recycling should be in accordance with local environmental laws and regulations.

5 Machine lahel

1.5 Machine label	
SMART WASP	Serial No.: XXXXXXXXXXX
Suzhou JiaJun Auto-we	ell Industrial automation Co.,LTD
Name	Model Version Date
Voltage Phas	e HZ Machine Size
Total Power Max Lo	oad Weight Control Mode
(PSI T BAR) Air	Requirement (CFM I /min)
	SCCR
KA	Max V
Original	
Shanghai □ Suzhou ☑	Shenzhen 🔲 Beijing 🔲
38	









1.6 Additional help and information

Smart Wasp is committed to providing the highest level of support to its users and operators. Depending on the product, the support provided mainly includes:

- Training
- Service management system
- 24-hour global support
- Maintenance agreement
- Tool service
- Repair and update

For more information, please contact your dealer.









2 Safety instructions

2.1 Standards and instructions

The machine is designed and manufactured in accordance with the requirements of the Machinery Directive 2006/42 / EC and meets the legal requirements applicable on the date of construction:

Mechanical instruction: 2006/42/EC

Low voltage directive: 2014/35 / EC

EMC Directive: 2004/30 / EC

The machine is designed with safety in mind and includes protection against injury and damage. However, all powerful machines can be dangerous if not used properly.

2.2 Safety regulations

2.2.1 General safety instructions

•The tasks described in this manual apply only to appropriately trained personnel with the required skill level (see section 2.3) who are familiar with all safety instructions and regulations mentioned in this manual.

•We are not responsible for any damage or personal injury caused by failure to comply with the safety instructions in this document or the warnings, caution and care described in this manual.

Other security instructions may also apply, depending on the specific environment in your workspace. Since we have no direct control over these specific working conditions, it is the user's responsibility to ensure compliance with local environmental and safety regulations. If you encounter an unknown security situation not described in this manual, please inform us immediately.

The machine may also contain third-party components. Please refer to the appropriate manual for specific security instructions for these third-party components.

•Please ensure that children and other unauthorized persons cannot enter the work area.







- •Please ensure that the working area has adequate light and ventilation.
- •Dressed correctly. Do not wear loose clothing. Remove jewelry, watches, etc. to prevent them from getting stuck in moving parts.
- •Please wear protective equipment (e.g. protective clothing, protective shoes, gloves, helmet, goggles, earmuffs) according to the user's operating environment.
- •Before performing any tasks on the machine, check that the machine is safe and clean.
- Always be vigilant and pay attention to your own operations. Do not work on the machinewhen you are tired or have drunk or have taken medicine.
- •Do not change the structure of the machine. See section 2.2.5.
- •Do not open the power distribution cabinet unless authorized.
- •Do not graft unless you are authorized to temporarily disable the security features of the machine.

2.2.2 Manual guidance

- •Please keep this instruction manual in a safe place near the machine. Ensure that the manualis always accessible.
- ·Please read this instruction manual thoroughly before using the machine or performing anyof the tasks described. Be sure to always have the latest version of this instruction manual.
- •Perform the steps in the order given. Do not change the order of the steps.

2.2.3 Marks and instructions on the machine

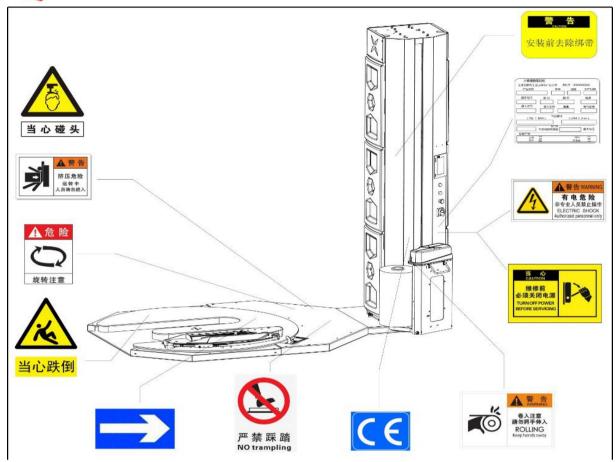
- Marks or instructions on the machine are part of the security feature. They must not becovered or removed and must be clearly visible throughout the life of the machine.
- ·Damaged or illegible signs and instructions must be replaced or repaired immediately.











A Warning: Be careful with head injuries

B Warning: Squeeze danger, do not enter the machine during operation. C Danger: Pay attention to danger when the turntable rotates

D Warning: Beware of falling near the turntable E Warning: Remove the strap before







installationF Instruction: Label of machine

G Warning: Non-professional personnel are not allowed to operate the electric

cabinet, there is electrical danger

H Warning: Power must be turned off before repair

I Warning: please do not put your hand into the roller of film

carriageJ Instruction: CE

K Warning: Do not stand on the turntable

L Indication: the rotational direction of the turntable

2.2.4 Alteration

Warning

Do not attempt to make any modifications or changes to the machine or program without the prior express consent of Smart Wasp. Unauthorized modifications or alterations to the machine may result in serious personal injury or death.

Smart Wasp is always willing to discuss improving the value of the machine by modifying it for the user. See section 1.6









2.2.5 Guarantee

• The machine is warranted for 12 months after installation. To exclude components and electrical components that may wear out during normal use, the customer must notify the dealer of the defect and the machine serial number. The customer must be able to hand over the defective component to the dealer. The dealer will resolve the defect within a reasonable time.

When problem must be resolved at the customer's location, the customer bears the additional cost. The extra cost is for labor, travel or accommodation.

•The dealer is not responsible for any accidents or delays in the production process. When the customer adjusts the machine with components that are not recommended by the dealer, the dealer cannot guarantee that the machine meets the EC requirements.

2.2.6 Safety-transport



Chapter 4.

Notice

Usually the machine is shipped by dealer or with the help of instructions provided by the dealer. When relocating the machine, please observe the safety instructions provided in

2.2.7 Safety - installation

Notice

Usually the machine is installed and adjusted by the dealer or with the help of the instructions provided by the dealer. When relocating the machine, please observe the safety instructions provided in Chapter 5.

2.2.8 Safety-operation



Please follow the general safety instructions. See section 2.2.1











- ·Make sure the machine and its vicinity are kept dry.
- ·Keep away from moving parts
- •Do not stand on the turntable even if the machine is turned off.
- ·Do not touch the area between the turntable and the machine floor (Be careful of finger crush)

When the machine is running:

- Please do not touch the turntable.
- Keep away from the area between the pallet.
- Do not try to manually stop or drag the tray, please use the emergency stop button
- •Please wear personal protective equipment as specified or recommended by the user.
- •The film carriage moves up and down during operation. Keep away from the the plate slide (to prevent finger crush or foot injury).

2.2.9 Safety-maintenance

- •Please follow the general safety instructions. See section 2.2.1
- •Before starting any maintenance (even cleaning):
- Put the switch button in the "OFF" position
- Remove the power plug
- Wait at least two minutes
- •Do not wash the machine with water (electric shock hazard)
- •Do not use solvent cleaning machine. Only use dry cloth and neutral cleaner to clean the machine.
- •If the security feature is temporarily disabled, the security feature is reactivated or enabled as soon as the maintenance work is completed. After cleaning the machine, please make sure to check the normal function of the safety function before production.
- •Do not leave anything inside or on the machine.
- •The sensor's detection range has been set by the manufacturer. Do not change the setting.











2.2.10 Safety - repair

- ·Please follow the general safety instructions. See section 2.2.1
- •Before starting any repair:
- Put the switch button in the "OFF" position
- Remove the power plug
- Wait at least two minutes
- If the security feature is temporarily disabled, the security feature is reactivated or enabledas soon as the maintenance work is completed. After cleaning the machine, please make sureto check the normal function of the safety function before production.
- •Do not leave anything inside or on the machine.

2.3 Operating skill

2.3.1 Operator

- •Only licensed operators are allowed to work on the machine.
- •All operators can only perform their trained, executable operations.
- •All operators using the machine must be familiar with the instructions.
- •Operators must be familiar with all possible situations so that they can act quickly and effectively in an emergency.
- •This machine is only for people over the age of 16. The corresponding national occupational safety and health regulations must be observed.

2.3.2 Operator Skills

Operators are trained to:

- ·Loading and unloading pallets.
- ·Use the controls on the control panel and the remote control to control the machine.
- ·Wrap pallets.
- ·Prepare to load and unload film rolls.
- •Prepare to load and unload film rolls.











Notice

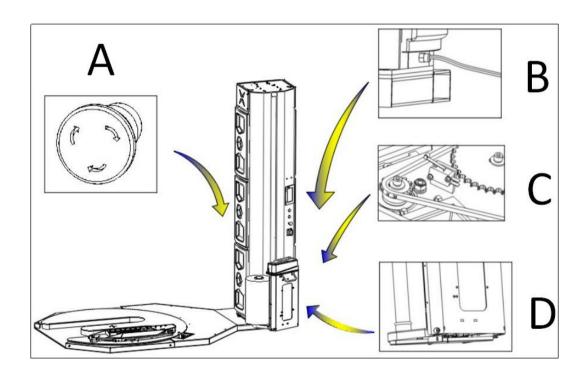
It is the user's responsibility to ensure that the machine operators are adequately trained in their operational tasks before starting work again.

Safety features 2.4

2.4.1 Security function overview

This pallet wrapping machine has the following safety features:

- •Emergency stop button (Please see section 2.4.2)
- •Safety marks and instructions (Please see section 2.2.3)
- •Film carriage bottom safety device (Please see section 2.4.3)
- •Ground lead (Please see section 2.4.4)











A Emergency stop button

B Ground lead

C and D Film carriage bottom safety device

2.4.2 Emergency stop button

The emergency stop button is in the control panel.



Notice

In case of emergency, press the emergency stop button to stop the machine.

2.4.3 Film carriage bottom safety device

The film carriage bottom anti-drop protection switch is located under the film carriage. Themachine will stop once the lower plate touches the protection switch.

2.4.4 Ground lead

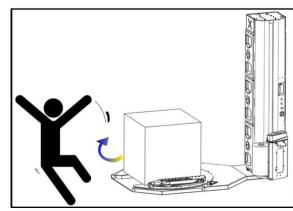
The electrical system is grounded. A continuity test has been performed on the ground wire. The electrical system was tested for insulation and dielectric strength at the factory.

2.5 Main operational risk safety warning

Operators must pay attention to the following safety warnings during the normal operation of the equipment.

·Physical collision and hazard:

Do not touch the machine parts while themachine is running.







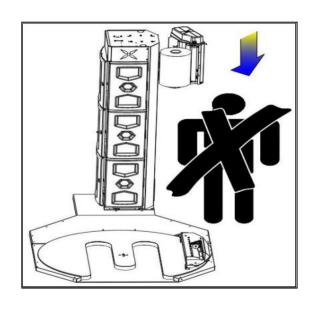




 Keep away from operation area: Do not stay in the operating area of the machine



·Risk of collision: do not stand under the film carriage



·Risk of collision when starting:

Do not stand disc objects when starting

Nearby to avoid danger

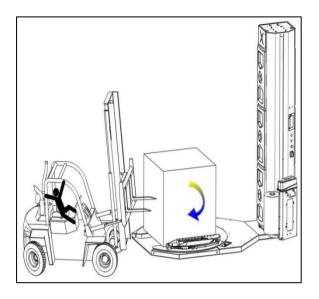








·Other dangerous situations at startup: When moving goods, the forklift is far away from the machine cargo





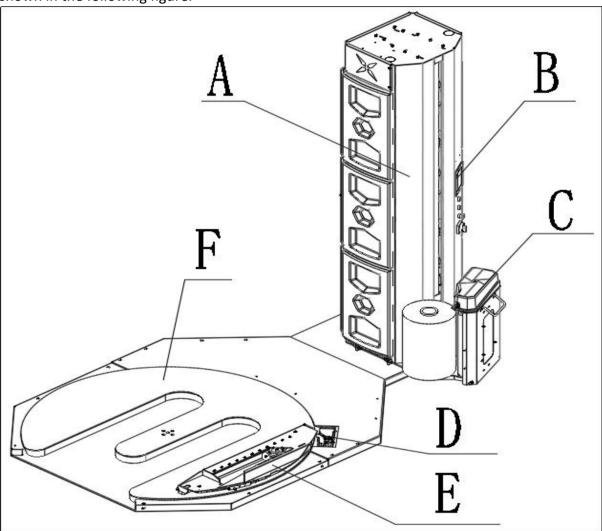




3 Technical parameter description

3.1 Main component composition

X500 pallet wrapping machine adopts special film to package the pallet goods. The film can be uniformly attached to the pallet goods in the pre-pull mode, and its main components are shown in the following figure.



- A Column
- **B** Touch Screen
- C Film Carriage
- D Turntable
- E Clamping and cutting system



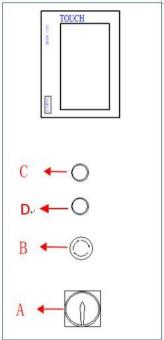






3.2 Control panel

3.2.1 Main control panel



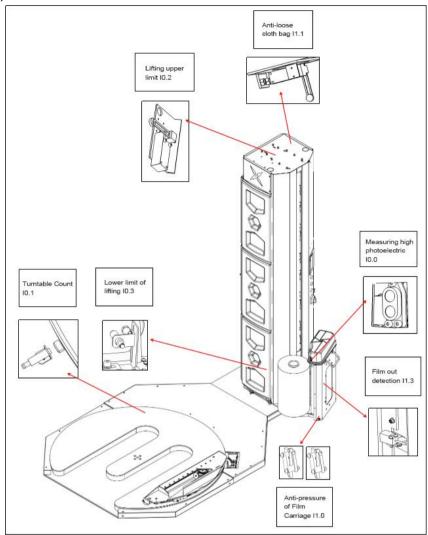
Serial number	Name	Function	
TOUCH	Touch Screen	It is used to operate the operation of the device and set	
A	Main powe rswitch	the operating parameters. Refer to section 5.7 Turn the main switch clockwise to energize the power supply of the equipment. Turn the main switch counterclockwise to turn off the power.	
В	Emergency stop switch	Press the emergency stop switch, the equipment willstop running immediately in any state; Turn the button clockwise to release the emergency stop switch.	
С	Power indicator	When the main power switch is turned on, the power indicator lights.	
D	Start button	Operate the start button and the machine starts to run automatically.	





3.2.2 Sensor location

The following icon shows the location of the device's sensor and the information connected to the system, which is convenient for maintenance.



3.3 Working principle

The operation of X500 standard winding machine can be completed by one operator. Its basic working principle is as follows:

- The goods are transported by forklift to the standard wrapping machine, put on the film roller and the film is manually affixed to the first surface of the goods (See 5 operating instructions for details).
- Start the wrapping machine, and the cargo starts to rotate from the initial position









(original position). At the same time, the film carriage cooperates with the speed of the turntable to release the film. The film is wrapped on the cargo under the rotation of the turntable.

- 3. According to the packaging requirements of different goods, the film begins to rise after winding a certain number of turns at the bottom of the cargo. The rise of the film carriage, the rotation of the turntable and the film release together to achieve the overall packaging of the goods.
- 4. When the film is wrapped to the top of the cargo, the photoelectric sensor senses the height of the cargo, and the film carriage begins to descend after completing the top winding.
- 5. When the film carriage moves to the bottom, the turntable starts to decelerate, and under the cooperation of the barrier and/or rope making, the film is cut by the cutting film and the film head is clamped to realize the automatic cutting of the film;
- 6. After the turntable stops, the top pressure is reset (the cooperation of the film head on the turntable and the film is drawn out to facilitate the next film loading), at this time a packaging cycle is over, the machine is in standby state, waiting for the wrapping and packaging of the next pallet.3.4 Optional configuration

3.4 Optional configuration

3.4.1 Pit configuration

Notice

According to the site conditions of different users, the working face of the equipment is parallel to the working face of the turntable, and the pit is used as an option to facilitate the use of specific customers.

3.5 Technical parameters and main configuration

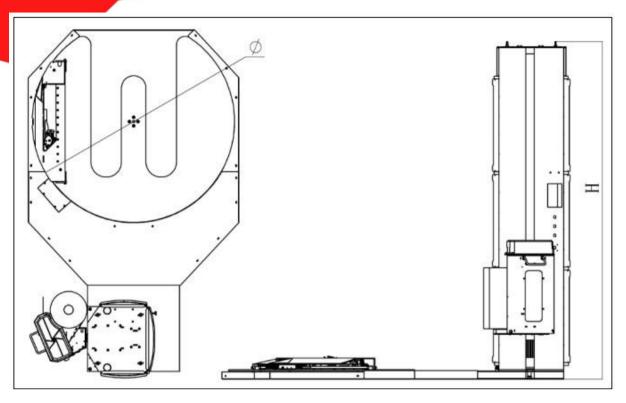
3.4.1 Institutional parameters











Model	X500	Machine size	See the figure above
Brand	Smart Wasp	Film thickness	14mic
Film width	500mm	Film paper core	250mm
Release film mode	Dynamic pre-stretch	Standard pre- stretch rate	250%
Max packing speed	30~40 pallets/hour	Intelligent sensor	standard
Max wrapping height	2350mm	Max wrapping weight	1500KG
Turntable speed	3-12RPM(adjustable)	Film carriage up&down speed	0- 2.6m/min (adjustable)







Ī	Turntable	Optional	Automatic	Have
	Turritable	cutting film	cutting film	Tiave
	Machine		Place film	Manual
	weight	900Kg	mode	Manual
-	Weighing		Wrapping	
	scale	Optional	force	Adjustable

X500 pallet wrapping machine turntable with existing (Φ) diameter is 1650 mm, 1800 mm and 2000 mm, the form shown in column and package of the existing high configuration:

Column (mm)	Wrapping height (mm)	Total height (H: mm)
2400	2000	2700
2650	2250	2950
3200	2800	3500

3.4.2 Electrical parameters

Machine	220V-240V/50/60Hz	Total	1.5KW
voltage	Single-phase	power	1.5KVV
PLC	Siemens	Touch	Siemens
T LC	Sicilicits	screen	Sicinciis
Motor	SMARTWASP	Inverter	Siemens
Contactor	Siemens	Sensor	Germany SICK

3.4.3 Working environment parameters

Temperature	0°~ +40°	Humidity range	≤70%(relative
range			humidity)
Noise	70dB	Pneumatic	No
Noise	7006	environment	INO









4 Transportation and installation instructions

4.1 Security transport



Notice

- Please note that for the transport of machines must follow general safety practices and the safety instructions given in this section.
- 2. The packaging material is composed of plastic film, three-ply, etc. (please follow the local advice or regulations on disposal and recycling of packaging materials)
- 3. Pay attention to waterproofing and violent vibration during transportation.

4.2 On-site transportation



Notice

There is no need to disassemble the machine, the machine can be moved as a whole.

- 1. 1. Turn on the power and move the film carriage up a distance(See the operationinstructions section 5 for details)
- a. Turn on the machine
- b. Click on the touch screen to input the password to enter the main interface.
- c. Select manual mode
- d. Click on the film carriage to rise, rise to the suitable height and stop



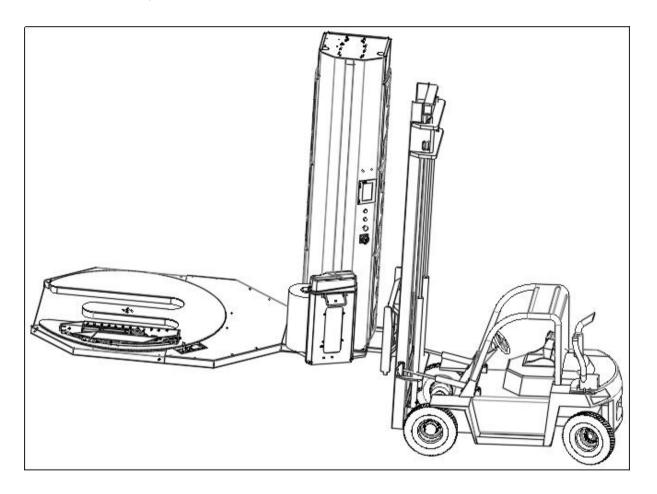








- 2. Turn the main power switch counterclockwise to turn off the machine
- 2. Press the emergency stop button Remove the power plug from the power socket
- 3. Insert the forks of the forklift into the bottom of the machine and raise the machine about50mm, as shown in the figure below
- 4. Move to a new place





Notice

During transportation, pay attention to obstacles on the top of the machine and obstacles on the floor, such as sinks.

4.3 Temporary storage

If the machine must be stored temporarily, please follow the steps below.









- Protect the machine from dust
- Store the machine in a clean, dry place. The environmental conditions required for installation also apply to storage.
- 3. Please don't put anything at the top of the machine.

4.4 Preparation before installation

Please read the entire installation section before you start, then follow the instructions to install it step by step.

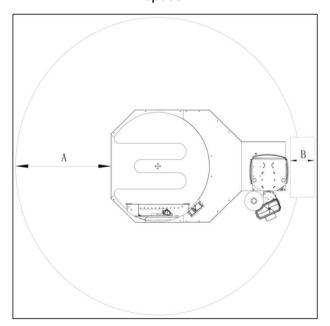


Notice

- (1) Finish each step before moving on to the next!
- (2) The device has multiple security measures. Operating in the right way will ensure safe operation. Please observe all safety signs. Do not turn on the power before completing the installation.

4.4.1 Preparation area

The installation area of this machine must meet the following space



- 2000mm
- 1000mm











Leave some space around the machine for daily operation, maintenance and repair.

•To get the machine running at its best, place the machine on a flat surface. If necessary, level the machine with a gasket.

4.4.2 Ground confirmation

The ground must be able to withstand the weight of the equipment, the maximum load of the equipment and its impact, so it is required:

Ground bearing capacity \geq (total weight of equipment + weight of goods) \times 1.5.

4.4.3 Electrical confirmation

The system requires a dedicated single phase grounded power supply220V/AC; 10A; 50/60Hz; 1PH

Notice For specific electrical requirements, please refer to the machine identification label or electrical drawings.

Notice



- (1) Use of extension cords and any other changes may result in damage to the circuit or affect device performance and may void the warranty. For changes, please call aftersales service.
- (2) To avoid damage to the equipment, check the voltage in the electrical drawing before starting the equipment.

4.4.4 Equipment, tools and personnel requirements

- ·Standard wrapping machine one set
- · One set of tools (in the toolbox), one forklift
- ·1-2 mechanical/electrical technicians and 1 user











4.4.5 Loading and unloading

(1) Main body (the turntable and it's column) Part loading, unloading and handling Equipment used: forklift.

Method of operation: Use a forklift to remove the equipment and transport it to the installation site.

(2) Other spare parts: Before handling the disassembled main body, other parts and components shall be manually moved.

4.4.6 General hardware fastening torque reference

The torque and performance specifications of the fasteners provided and recommended bythis product are shown in Table

Metric fastener torque comparison table			
Nominal size of fastener	Performance level	Torque (Nm)	
M6	8.8	14	
M8	8.8	24	
M10	8.8	54	
M12	10.9	102	

4.4.7 Installation and service conditions

Humidity ≤ 70% Temperature 0-40°C

4.5 Equipment installation









4.5.1 Equipment installation preparation

- (1) Move the equipment to the installation area with a forklift, and remove the items used for outer packing, tying materials and fixing equipment.
- (2) Take out the attached tools, check whether the equipment is complete and put in order.
- (3) Make sure the trolley is locked on the stiffener plate of the support frame, to prevent the lifting body from colliding with the base and damaging the parts during the erection process. As shown in figure 4.5.1.

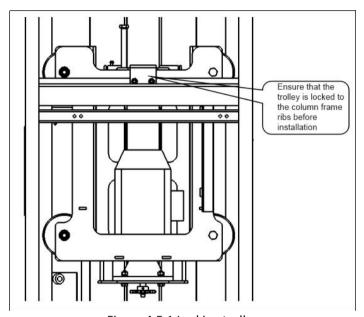


Figure 4.5.1 Locking trolley

4.5.2 Column installation

(1) Raise the column and be careful during operation
Before installation, the surface of the chassis should be placed with soft material base pad,
and then erect the column. During the erection process, take care to avoid bumps and
impacts between the column and the turntable to prevent damage to the parts. Ensure that
the rotating center screw is loose before erecting, ensuring smooth rotation when the
column is erected. After erecting the column, lock it to the chassis and then lock the rotating
center screw. Note: If the equipment is transported far away or sent overseas, the column
and turntable are packaged separately.

(2) Use the attached tools to mount the column to the turntable (see Figure 4.5.2.1 for the installation of the column)







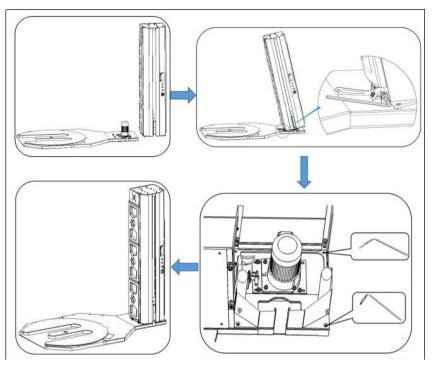


Figure 4.5.2.1

(3) Connection between quick plug of power cord of chassis motor and reserved quick plugof column is shown in figure 4.5.2.2.

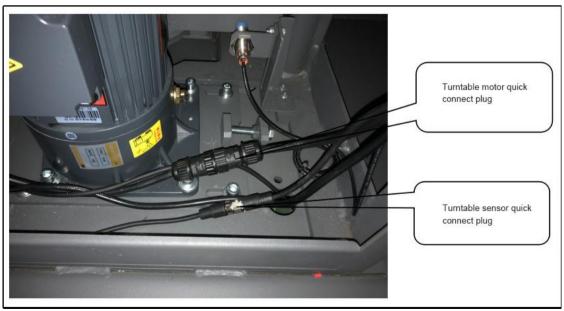


Figure 4.5.2.2









4.5.3 Film Carriage installation

(1) Unlock the trolley from the stiffener plate, and check that the cloth belt antilooseningswitch is properly pressed by the cloth belt. As shown in the figure 4.5.3.1 below.

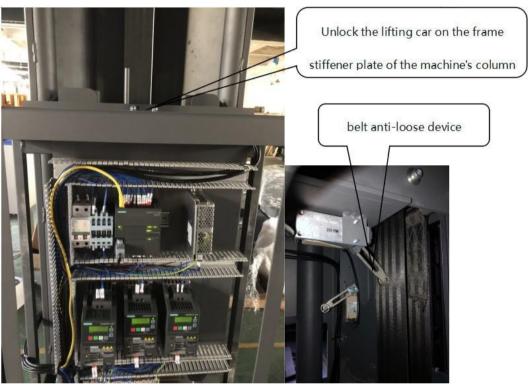


Figure 4.5.3.1

(2) Turn on the power and manually reset the cart to the lower limit. Rotate the main powerswitch to turn off the machine as shown below.







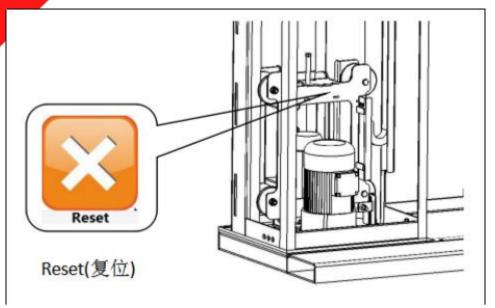


Figure 4.5.3.2

Manually hang the film carriage from the outside of the column on the trolley, and pay attention to lead the connecting wire to the lifting body through the threading hole below the hanger plate. Use the corresponding installation bolt to lock the film carriage and the trolley. As shown in the figure below.

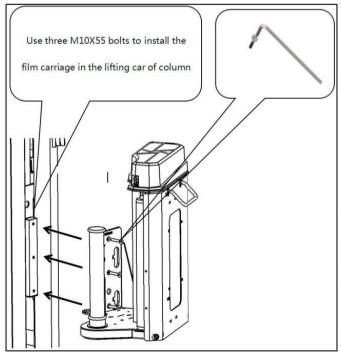




Figure4.

5.3.3



- (4) Rotate the main power switch clockwise, raise the film holder to a suitable height withmanual mode, rotate the main power switch counterclockwise, and turn off the machine.
- (5) Install the film tensioning sprocket and connect the film seat film tensioning drive chain, as shown in the following series of figures.

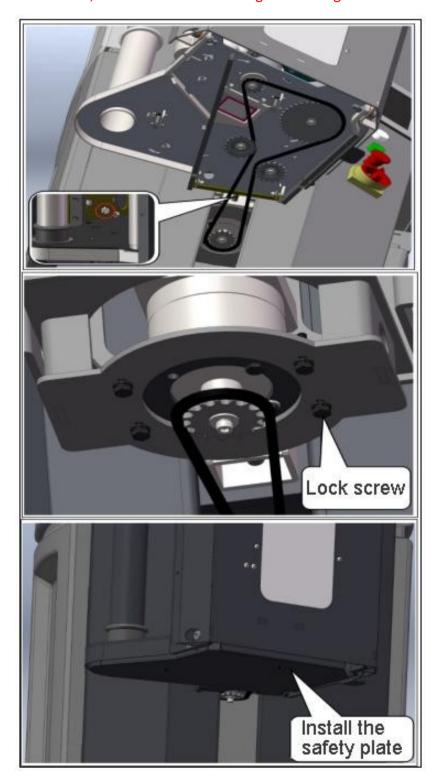








Figure 4.5.3.4

- (6) Close the membrane seat safety plate and rotate the membrane seat safety plate screwinto the elongated hole.
- (7) Turn the power on, manually reset the film carriage to the lower limit, then turn off theequipment and disconnect the power.







4.5.4 Broken film and blocking installation

(1) Place the film cutting system vertically on the turntable (be careful to handle it carefully to avoid scratching or damaging parts), align the holes of the film cutting system mounting block with the threaded holes on the turntable, and use M8*25 hexagon socket head screws to break The membrane device is installed and locked on the turntable as shown in Figure 4.5.4.1.

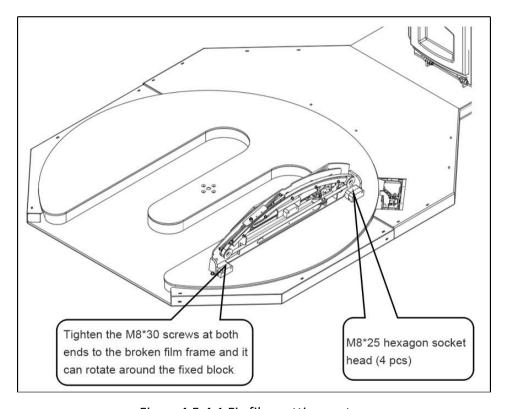


Figure 4.5.4.1 Fix film cutting system

(2) Rotate the broken film frame around the fixed block and place it on the surface of the turntable as shown in Figure 4.5.6.2.









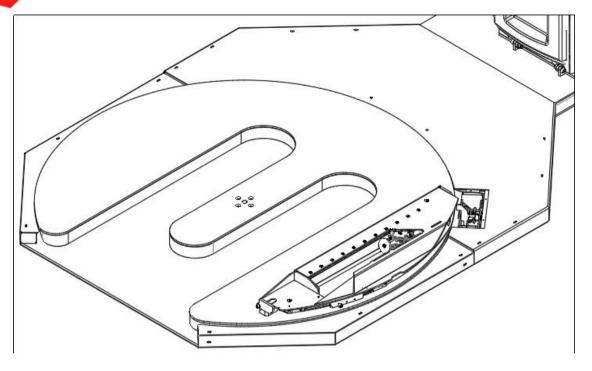


Figure 4.5.4.2 Rest the film cutting system

(3) The mechanism of the stopper has been debugged and installed on the chassisbefore leaving the factory as shown in Figure









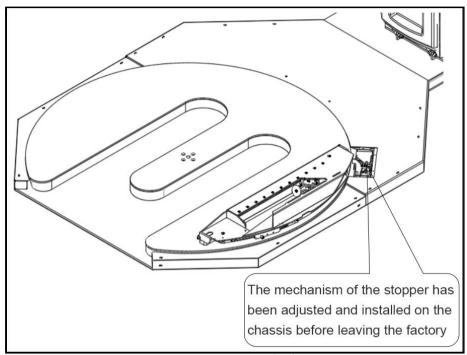


Figure 4.5.4.3 Blocker

4.5.5 Column door installation

Schematic diagram of the column door installation process. Note the installation sequence of the door as shown in figure 4.5.4.1









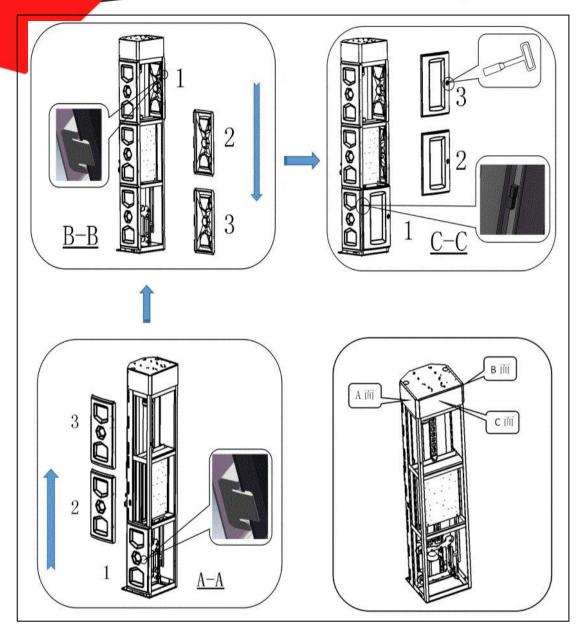


Figure 4.5.4.1

5 Operating instructions

5.1 Safety instructions



Notice

Strictly follow the operating safety procedures (see section 2) and the instructions given in this chapter.











5.2 The task of the operator

- Turn on the machine. See section 5.3.
- 2. Install and replace film. See Section 5.4.
- 3. Put a pallet on the turntable. See section 5.5.
- 4. Fix the end of the wrapping film to the pallets. See section 5.6.
- 5. Select a mode (See section 5.10) or to continue the current packaging mode.
- Please refer to section 5.7 for starting the wrapping procedure.
- 7. The machine will complete a completed packaging cycle. When this cycle is completed, the pallet will stop at the original position.
- Remove the pallet from the turntable.
- Turn off the machine (see Section 5.8).



Note: the above tasks of the operator are performed in accordance with the standard

working process.

5.3 Start the machine

- 1. Turn the main switch clockwise (A) At this point, the power indicator (C) will be on.
- 2. In case of emergency, press the emergency stop button(B).

5.4 Install and replace wrapping film



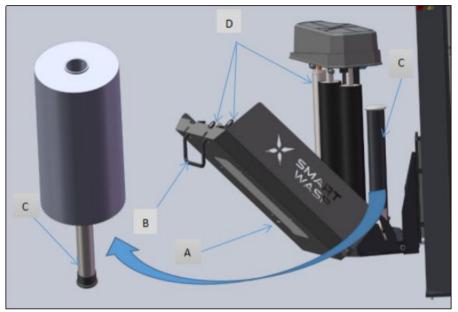


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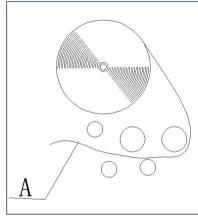


Notice

Please use the same type of film roll as given in section 3.5.1.



- Lift the handle (B) up to open the film carriage door(A).
- 2. Place the stretch film on the film roll holder (C).
- 3. Pull out the stretch film through the guide roller (D) asindicated on the diagram at the top of the film roll.

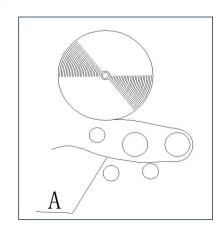


Notice



Most types of stretch film have an adhesive surface (A), so called adhesion side. Since the inner side of the pallet must be covered with sticky material, make sure that this side is glued to the surface. If not, place the stretch film as shown on the right picture.

- 4. Close the film carriage door.
- 5. Attach the end of the pulled film to the pallet andthe machine is now ready to wrap.



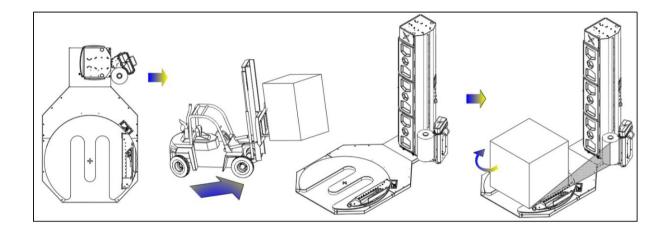






5.5 Place pallet instructions

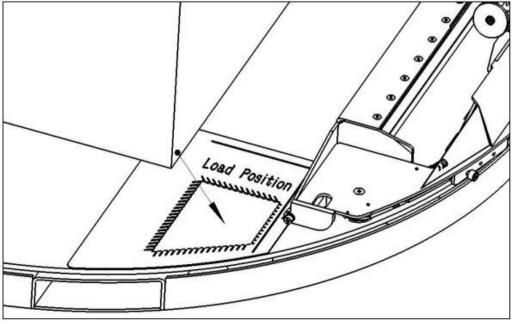
The operation of the standard wrapping machine can be done by an operator, and the basicflow is shown in the following figure.



- 1. Please first make sure there are no people or obstacles within 1 meter of the machine.
- 2. The pallets are transported by forklift to machine and placed it as far as possible in thecenter of the turntable.

Note

X100 has a printed film-breaking area. After loading, ensure that one corner of the goods is in the film-breaking area, as shown in the figure below.











5.6 First put film operation

After the pallet is placed, the wrapping film needs to be manually placed on the machine filmroll holder. The operation flow is shown in the figure below.



- 1. After the film roll is placed, manually stretch the film to a sufficient length.
- 2. Make the film unfold.
- 3. Pull out the film and attach it to the pallet, firmly stick or tie it to the bottom of the pallet sothat it does not fall when it is rotated.

5.7 Turn on the equipment

- 1. Check for an error message. See section 7.2.
 - 2. Multiple buttons to start the machine:
 - •The start button on the column
 - •The start button on the screen screen

Press the start button and the voice speaker will make a start sound. After 2 seconds, the turntable began to rotate, and as the film holder rose, the pallet was wrapped. At the endof the wrapping cycle, the turntable stops at the original position.





Notice

In the wrapping process, the machine can be paused.

5.8 Turn off the equipment

If you don't use the machine for a long time, please shut down the machine.



Turn the right switch counterclockwise.

5.9 Touch screen homepage

1. Click to enter the system to enter the touch screen operation

Login

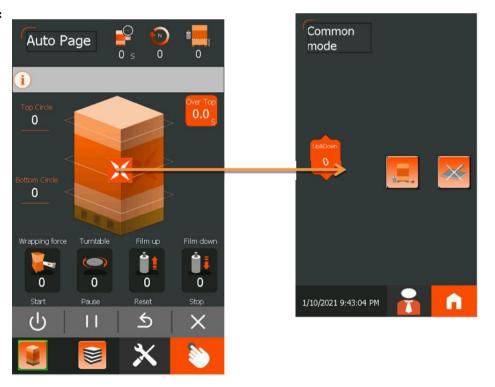
2. Touch screen password:

·administrator:



·operator:











NO.	Name	lcon	Descriptions in single layer
A	Wrapping mode setting	Top Circle	The wrapping number of stretch film required at the top (reference value is 2)
		Bottom Circle	The wrapping number of stretch film required at the bottom(reference value is 2)
		Up and Down	The number of times the pallets are wrapped up and down(reference value is 1)
		Over Top O. O	This value indicates the time to continue rising after detectingthe height of the cargo (reference value of 2.5).
В	Speedsetting	0	Wrapping speed: The speed at which the film is released from the film. As the turntable speed increases, the film exit speed also increases to control the film tension (set range 0-100).
		0	Turntable speed: the rotation speed of turntable(setting range0-100)
		0	Up speed: the rise speed of film carriage







		0	Down speed: the descending speed of film carriage
С	Basic operation button	(h)	Start: Control machine runs automatically
		11	Pause: pause the current action of the machine. Press any
			button to end the pause state
			Reset:
		6	1. Move the device to the origin position, and the device can
		<u>د</u>	be started only at the origin position
			2. Alarm recovery
		X	Stop button: stop automatic operation state
D	Modeselecti on		There are 12 cargo modes, and different cargo parameters are written into different modes. Select the corresponding cargo mode before starting to write the parameters into the automatic screen.
E	Manual		Independent control of different positions of the equipment.
F	Setting	×	The administrator's operation of parameters on controlling device stability.

5.10 Pause packaging (normal stop)

During the packaging cycle, the machine can be temporarily stopped.

1. Press the pause button on the touch screen and the machine will gradually slow down and







stop.

2. Restore the package state by pressing any one of the start buttons.



Notice

After pressing the Pause button and starting again, the machine will continue to run from where it left off until the packaging process is completed.

5.11 Stop in automatic mode (emergency stop)

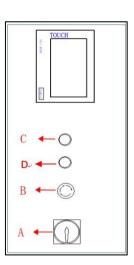
In emergency circumstances:

Press the emergency stop button (B).

The machine will stop immediately and the packaging program will stop.

Notice

After pressing the emergency stop, the packing cycle could not be resumed.



5.12 Reset to the origin position

When the turntable is not at the origin position:Press the reset button , the machine will automatically reset to the home position.

5.13 Select packaging mode













1. Press and can switch between modes

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2.After switching to the selected mode, press the home page to select the



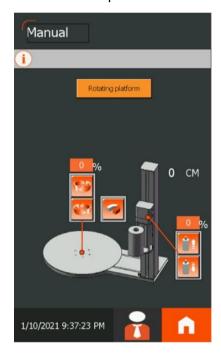


corresponding mode and write the corresponding parameters into the automatic screen and return to the home page.

- 3.Press will appear the single and multi-layer mode settings screen
- 4.Press 📒 can shield the top of the film
- 5. Press shielded pressurization
- 6. Press can select photoelectric induction height measurement and multi-layer height setting height measurement

5.14 Manual operation

select manual operation mode from the screen:



- 1. Press come to the manual page
- 2. Press the turntable will rotate, press again the turntable will stop rotate
- 3. Press 🔲 the film carriage will rise, press again the carriage will stop
- 4. Press the film carriage will fall, press again the carriage will stop
- 5. Press the stopper will work
- 6. Press the top pressure rod will rise, press again will stop
- 7. Press the top pressure rod will fall, press again will stop





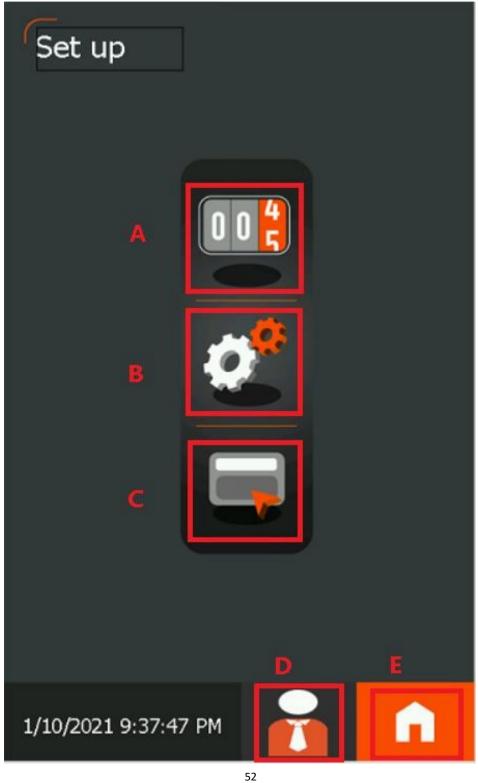




Note

The speed of manual operation is set above the corresponding button.

5.15 Setting overview









NO.	Name	Icon	Description
А	Count statistics		Wrapping number statistics
В	System paramete r	O	System parameter setting, password is required to enter, operator setting is prohibited
С	Device Information		Language switching, alarm information, IO monitoring, version information
D	Login status	*	Display current user login status
E	Homepage		Return to the automatic page

6 Maintenance and repair instructions

6.1 Safety instructions

Notice

Strictly follow the applicable safety instructions during maintenance (see section 2.2.10) and the instructions given in this chapter.

6.2 Maintenance preparation

- ·Please follow the general safety instructions. Before starting any maintenance work (or cleaning):
- -Turn off the machine
- Remove the power plug
- Wait at least two minutes











6.3 End maintenance check

- 1. After the maintenance work is completed, please reactivate or enable (temporarily) disable the features of the security facility immediately.
- 2. After cleaning the machine, please check whether the safety facilities function canbe used normally before production.

6.4 Maintenance schedule

			Maintenance interval			
Maintenance Tasks	chapter s and section s	Daily check	Monthly Check	Annual inspection	Check every 3 months	
Check the function of the safety	3					
facility	6.5	٧				
Cleaning machine	6.6		٧			
Cleaning the drum on the						
membrane seat	6.7		٧			
Lubricate the film carriage drive						
chain	6.8				٧	
Check whether the cloth belt on						
the upright post is worn	6.9				٧	
Lubricate the belt bearing seat	6.10				٧	
Lubricate the turntable drive						
chain	6.11				٧	
Check the tension of the drive						
chain in the column	6.12				٧	
Check the wheel of the turntable	6.13			٧		

6.5 Check the function of safety facilities

Notice

Please be extremely careful with the machines that need to be run during the inspection of safety facilities.









- 1. Check that all safety labels and instructions are legible.
- 2. Check whether the wire is

damaged.3.Please check the following

facilities.

- •Emergency stop button (Please see section 2.5.2);
- •Safety switch for film carriage door (Please see section 2.5.3);
- ·Safety film carriage buttom anti-drop device

6.6 Cleaning machine

- 1. Check that the device is safe, see section 6.2.
- 2. Clean the machine with a dry cloth or a mild detergent.



Notice

Do not use solvent, gasoline and other items cleaning machine

6.7 Clean the roller on the film carriage



Notice

Some types of film leave a layer of adhesive on the surface of the drum, which causes the film to slide on the drum.

- 1. To check that the device is safe, see section 6.2.
- 2. Rubbing the surface of the drum (A) with alcohol will restore adhesion between the drum and the film.









6.8 Lubricate film carriage bottom drive chain



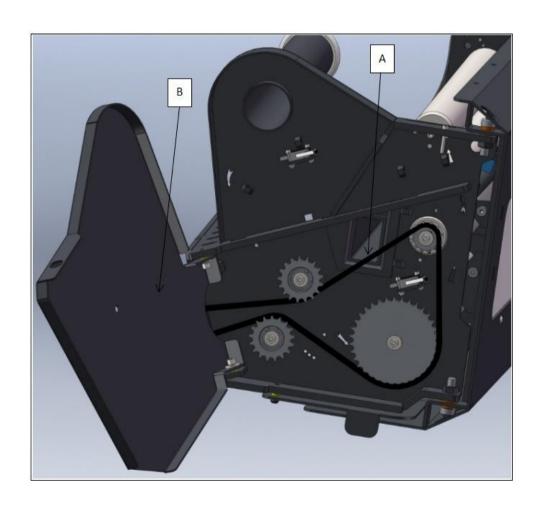
Notice

Before leaving the factory,



seat. Lubricating oil 🥻 is still needed for long-term use.

- 1. Please refer to section 6.2 to check that the device is safe and correct.
- 2. Raise the film carriage to a suitable height and open the bottom safety plate (B).
- 3. Lubricate the drive chain with chain grease (A).
- 4. Close the bottom safety board (B).







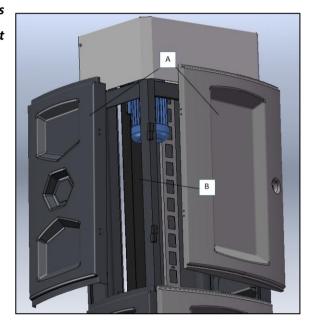




6.9 Lubricate film carriage bottom drive chain

If the belt on the column is or cracked, please replace it immediately.

Notice



6.10 Lubricate the belt bearing seat

Notice

If the belt on the column is severely worn or cracked, please replace it immediately.

Before leaving the factory, lubricating oil has been added to the bearing block of the column.

Lubricating oil is still needed for long-term use.

- 1. Check that the system is safe and correct, please refer to Section 6.2.
- 2. Open the top coaming and open the door plate. Please refer to the door (A) installation of column in the transportation and installation instructions for the removal process.
- 3. Add lubricating oil to the filling port of the bearing seat (A) of the lifting power frame.

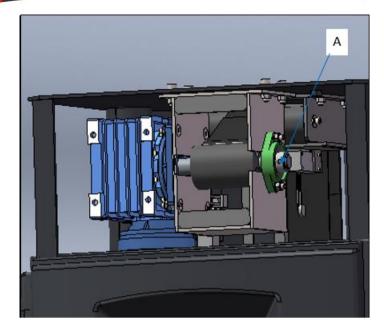










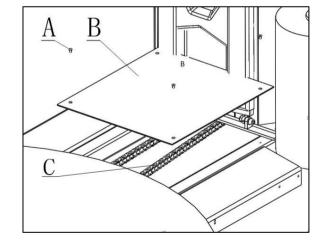


6.11 Lubricate the turntable drive chain



Before leaving the factory, lubricating oil has been added to the drive chain of the film seat. Lubricating oil is still needed for long-term use.

- 1. Check that the system is safe and correct, please refer to Section 6.2.
- 2. Loosen the fastener (A).
- 3. Remove the chain cover (B).
- 4. Remove the chain cover (B).
- 5. Install the chain cover.



If the chain is loose, tension the chain as follows:

- 1. Open the door panel.
- 2. Loosen the four fasteners (B) of the welding parts of the motor mounting plate.
- 3. Use the chain tension bolt (B) to adjust the chain tension.





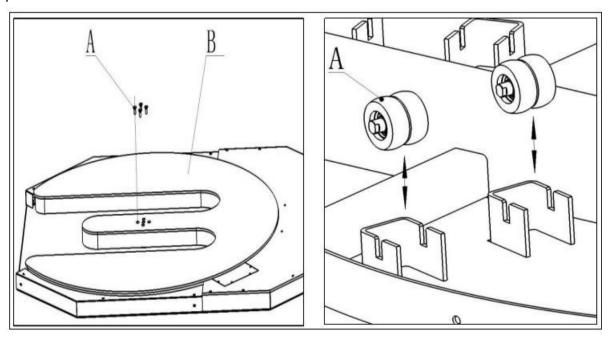




- 4. Tighten the four fasteners (A).
- 5. Check the tension of the transmission chain again.
- 6. After the adjustment is completed, proceed in the reverse order to reinstall the removed parts.

6.12 Check the chain tension of the turntable drive chain

- 1. Check that the system is safe, please refer to section 6.2
- 2. Loosen the 4 fasteners (A) on the turntable (B).
- 3. Remove the turntable (B).
- 4. Check the condition of the next round (A).
- Replace the wheel assembly.
- 6. After the adjustment is completed, proceed in the reverse order to reinstall the removed parts.











7 Troubleshooting instructions

7.1 Safety precautions



Notice

Strictly observe safety regulations

Please refer to section 2.2.11 for repair and troubleshooting.

7.2 Troubleshoot

7.2.1 Touch screen (HMI) alarm condition description

The possible causes of the alarm information prompted by the touch screen and the solutions to be taken are as follows.

NO.	Problem description	Possible reasons	Solution
1	Lack of material alarm	 The stretch film is out. Stretch film is broken when the machine is in operation 	 Change film Pull the film out and putit on the goods.









				1)	Check that there's
					something under the
		1)	anti-pressure switch		film seat.
		'	press some objects	2)	Check whether the anti-
	Abnormal alarm o	f2)	The wire of		pressure switch wire is
2		'			falling off or not.
2	anti-pressure switch	1	anti-pressure switch	3)	Check whether the anti-
	offilm carriage	۵)	falls off.		pressure switchelement
		3)	Anti-pressure switch is		is in good condition.
			broken.	4)	Press the anti-
					pressure switch at the same
					time to observe
					whether the PLCI1. O is
					on or not, and if not,
					replace the
					anti-pressure switch.
		1)	The travel switch is not		
			in the center of the	1)	Adjust the center of the
			belt.		belt and travel switch
3	Belt anti-loose switch abnormal alarm	2)	The mounting between	2)	Remove the mounting
5	abiioiiiiai alaiiii		the membrane seat		parts between the film
			and the column is not		seat and the column
			removed.	5)	Replace travel switch
		3)	The travel switch is		
		bro	ken.		











4	Emergency stop alarm	 Emergency stop buttonis pressed Emergency stop button is broken. 	1) Release emergency stop Replace new emergencystop button.
5	Prohibit operation after lifting up to the upper limit	The film seat reaches the upper limit and cannot rise again.	3) Control the film seat to fall down in manual mode
6	Manually lowering the film carriage, prohibiting rising it.	When the film seat is lowered in manual mode, click on the rise operation.	Do not click rise in manual 2) mode when the film seat ismanually go down.
7	Do not click go down in manual mode when the film seat is manually rise.	When the film carriage is going down in manual mode, the operator click on the rise button.	Do not click go down in manual mode when the film
9	reaches the lower limit, it is forbidden to continue to descend.	Automatic state start	The film seat reaches the lower limit when it is manual mode, and cannot continue to descend. Reset first, and then start.
10	Manual mode is prohibited when the machine is running in automatic mode.	Manual mode is prohibited when the machine is running automatically	Wait until the automatic run is complete and then manually operate it.







	The safety door of thefilm seat is open.	 The safety door of thefilm seat is open. The circuit ofproximity switch is damaged. 	 Check that the safety door is closed. Check that the wire is in good condition.
12	Lifting motor alarm	Inverter alarm	Check the inverter code to 2)find the reason
13	Film seat motor alarm	Inverter alarm	Check the inverter code to find the reason
14	Turntable motor alarm	Inverter alarm	Check the inverter code to find the reason
15	Touch screen show "##".	 Connection cable i damaged Network cable plug is not plugged in 	1) Replace the network cable Check the plug
		. 55	2)







7.2.2 Description of inverter alarm

The alarm information displayed on the operation panel of the inverter, possiblecauses, and solutions to be taken are as follows.

NO.	Fault	Cause	Remedy
1	F1 Overcurrent	 Motor power (P0307) does no Motor lead short circuit Earth faults r0949 = 0: Hardware reportedr0949 = 1: Software reported r0949 = 22: Hardware reported 	 Check the following: Motor power (P0307) must correspond to inverter power(r0206). Cable length limits must not beexceeded. Motor cable and motor must have no short-circuits or earth faults. Motor parameters must matchthe motor in use. Value of stator resistance (P0350) must be correct. Motor must not be obstructed or overloaded. Increase ramp-up time (P1120) Reduce starting boost level(P1312)
2	F2 Overvoltage	 Main supply voltage too high Motor is in regenerative mode r0949 = 0: Hardware reported r0949 = 1 or 2: Software reported 	Check the following: Supply voltage (P0210) must lie within limits indicated on rating plate. Ramp-down time (P1121) must match inertia of load. Required braking power must lie within specified limits. Vdc controller must be enabled (P1240) and parameterized properly. Note: Regenerative mode can be caused by fast ramp downs or if themotor is driven by an active load. Higher inertia requires longerramp times; otherwise, apply braking resistor.





3	F3	Main supply failed.	Check supply voltage.
	Undervoltage	Shock load outside specified	
		limits.r0949 = 0:Hardware	
		reported	
		r0949 =1 or 2:Software reported	
4	F4	Inverter overloaded	Check the following:
		Ventilation inadequate	• Load or load cycle too high?
	Inverter	Pulse frequency too high	Motor power (P0307) must match
	Over		inverter power (r0206)
	temperature	• Fan inoperative	Pulse frequency must be set to
		·	default value
			Surrounding temperature toohigh?
			• Fan must turn when inverter is
			running
5	F4	Inverter overloadInsufficient ventilation	Check the following:
	Inverter	 Pulse frequency is too high 	Is the load or duty cycle toohigh?The motor power (P0307) mustmatch the
	overheated	The ambient temperature is too high	inverter power
		Fan is not working	• (R0206).
			Pulse frequency must be set tothe default value
			The ambient temperature is toohigh?
			The fan must rotate when the
	FF	Inverter overloaded.	inverter is running Check the following:
	F5	Load cycle too demanding.	Load cycle must lie withinspecified
	Inverter I2t	 Motor power (P0307) exceeds inverter 	
		power capability (r0206).	Motor power (P0307) must match
			inverter power (r0206) Note: F5 cannot
			be cleared until the inverter overload
			utilization (r0036) is lower than the
			inverter
			• I2t warning (P0294).









	F11 Motor over temperature	Motor overloaded	 Check the following: Load or load step too high? Motor nominal overtemperatures (P0626 -P0628) must be correct. Motor temperature warning level (P0604) must match.
	Film carriage back films	1. Film seat power roller reverseThe film carriage is not tightened during operation	 Check the wiring, and U2/V2can be exchanged if necessary Tighten the film to prevent film roll
9	No action when the machinestarts	 The power is not plugged in The emergency stop button is pressed Inverter alarm 	 Plug in the power plug Rotate the emergency stop buttontoeliminateemergencystop Press the "OK" button of the inverter
10	A501 Current limit	 Motor power does not correspond to theinverter power Motor leads are too long Earth faults 	See F1.
10	A501 Current limit	Small motors (120 W) under FCC and light loadmay cause a high current	Use V/f operation for very smallmotors
11	A502 Overvoltage limit	Overvoltage limit is reached. This warningcan occur during ramp down, if the Vdc controller isdisabled 3. (P1240 = 0).	 If this warning is displayed permanently, check inverter input voltage.







support@sal-tech.com



A503 Undervoltage limit	 Main supply failed. Main supply and consequently DC-linkvoltage (r0026) below specified limit. 	Check main supply voltage.
A504 Inverter over temperature	Warning level of inverter heat sinktemperature, warning level of chip junction temperature, or allowed change in temperature on chip junction isexceeded, resulting in pulse frequency reduction and /or output frequency reduction (depending in P0290).	Note: r0037[0]: Heat sink temperature r0037[1]: Chip junction temperature (includes heat sink) Check the following: • Surrounding temperature mustlie within specified limits • Load conditions and load stepsmust be appropriate Fan must turn when inverter isrunning
A506 IGBT junction temperature rise warning	Overload warning. Difference between heatsink and IGBT junction temperature exceeds warning limits.	Check that load steps and shockloads lie within specified limits.









15	A511	Motor overload.	Independently of the kind
	Motor	Load cycles or load steps too high.	oftemperature determination check:
	Over temperature		P0604 motor temperature
	I2t		warning threshold
			P0625 motor surrounding
			temperature
			Check if name plate data is
			• correct. If not, perform quick
			commissioning. Accurate
			equivalent
			circuit data can be found by
			performing motor identification
			(P1900 = 2).
			Check if motor weight (P0344)
			• is reasonable. Change if
			necessary.
			With P0626, P0627, and P0628
			• the standard overtemperature can
			be changed, If the motor is not a
			SIEMENS standard motor.
16	A922	No Load is applied to the inverter.	Check that motor is connected to inverter.
	No load	As a result, some functions may not work	
	Applied to inverter	asunder	
		normal load conditions.	







7.2.3 Mechanical common faults and elimination

NO.	Problem description	Possible reasons	Solution
1	The turntable does not rotate after starting.	 Emergency stop button hasbeen pressed. The chain falls off or breaks 	1. Rotate the "Emergency Stop Button" on the operation panel to eliminate the "Emergency Stop Alarm" and the red light at the top will be eliminated. 2. Open the turntable, replace the chain, adjust the chain tension
2	Abnormal noise or difficulty in startingthe turntable	1.The machine is placed on uneven ground 2.Bottom roller damaged3.The chain is short of lubricating oil 4.The goods are overweight	1. Place the equipment on the flat groundand ensure the floor is clean. 2. Reinstall the bottom roller or replace it. 3. Filling of lubricating oil. Details refer to Maintenance instructions. 4. Check if the bottom roller is loose or damaged, check the weight of the load (The goods should be selected withinthe approved load range, and the detailedrange values refer to the technical parameter list.)
3	reset action or the reset is not	1.The bottom sensor of the turntable is loose and damaged.2.Power lines were damaged.	Adjust the distance between sensor andsensor plate or replace sensor. Check circuit and replace faulty circuit
4	Abnormal noise in film carriage	1.Chain lacks lubricant2.There are something in the chain.	1. please see section 6 Maintenance andRepair Instructions for details. Clean the matter in the chain







5	The top of thegoods can't bepacked.	 Sensor detection positiondeviation The sensor is damaged. Over top time setting is too short. 	1. Adjust the sensor to detect the distanceor position 2. Change sensor 3. Increase the times of over top (Pleasesee section 5 Operating Instructions for details.)
	Film carriage abnormality	 Sensor detection positiondeviation The sensor is damaged. Chains fall off, break, or have something in the chain 	1. Adjust the sensor to detect the distanceor position 2. Change sensor Clean up the things or reinstall thechain
7		1.The film roll is bonded with debris2.The film release speed is too inconsistent with the turntable speed.	 Clean the surface of the film roller with alcohol (do not use sharp tools such as a knife to clean it)) 2. 2.Adjust the motor speed (Please see 5Operating Instructions for details)
8	Film carriage rollerreverse rotation	1.film carriage power drumreversal 2. The film is not tensioned during operation.	1. Check the circuit and exchange U2/V2 if necessary 2. Tightening film to prevent returning 2. film when operating.
9	No action after the machine starts	1. The power supply is notplugged in.2. Iverter alarm3. Emergency stop button hasbeen pressed.	1. Plug in the power plug Press the "OK" button of the inverter. 2.Release emergency stop button

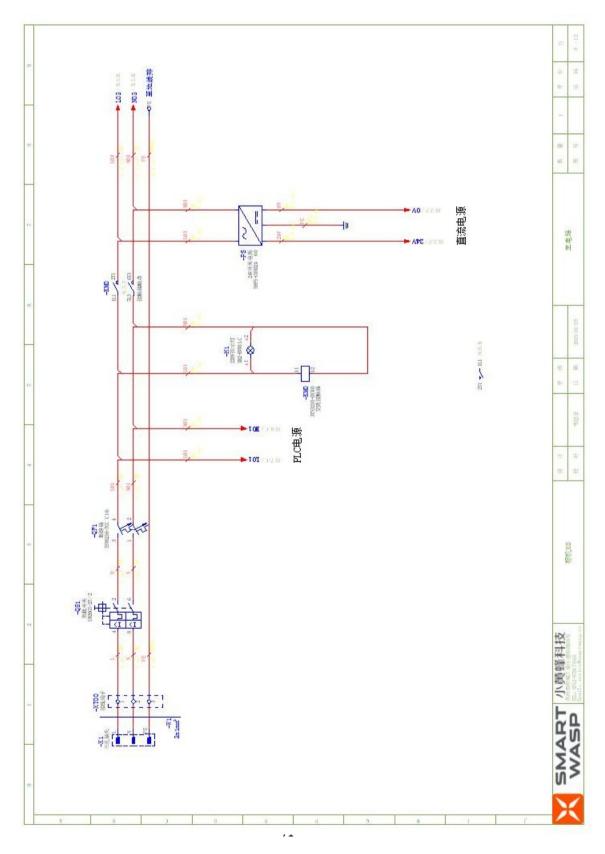






8 Append

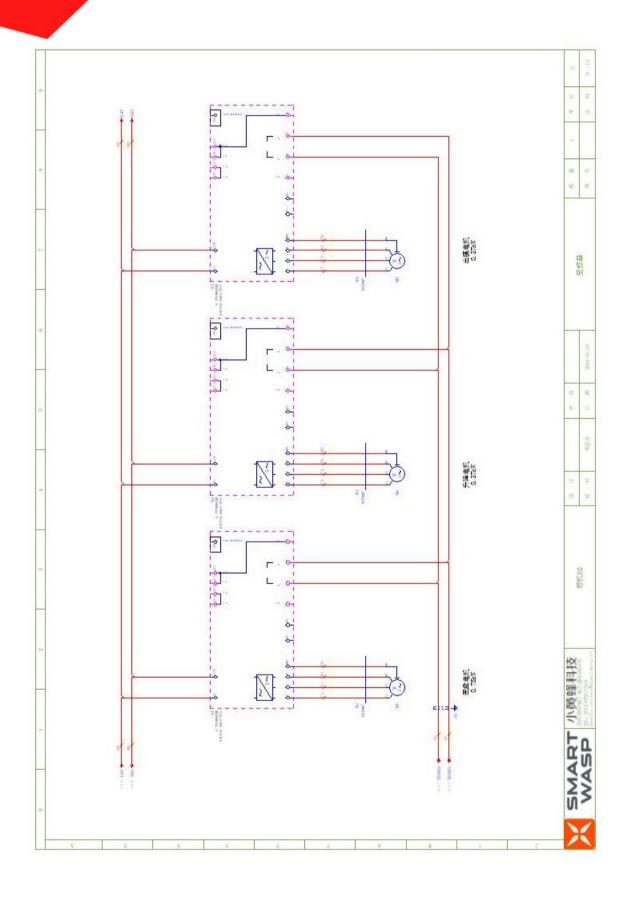
8.1 Electrical Principle Drawing









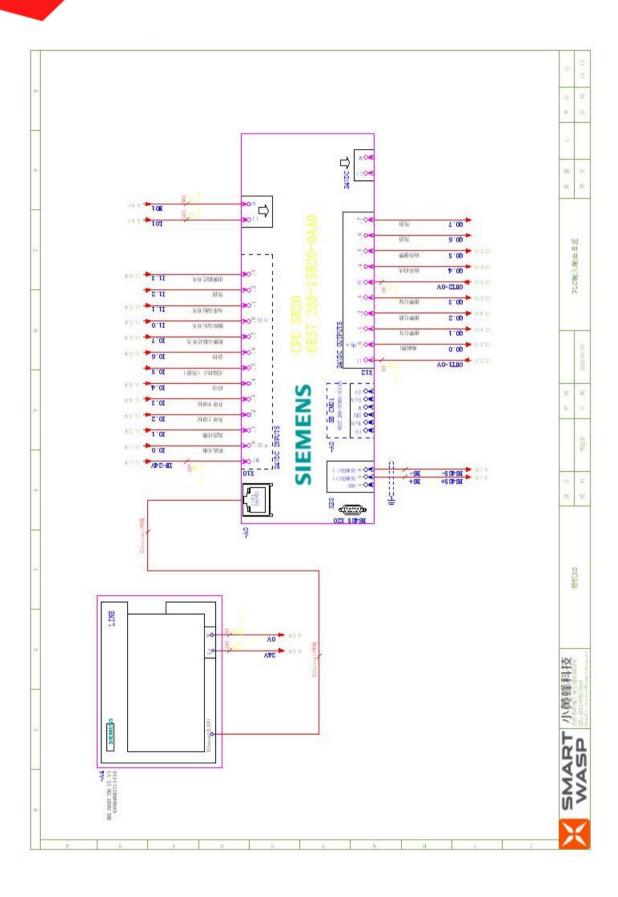








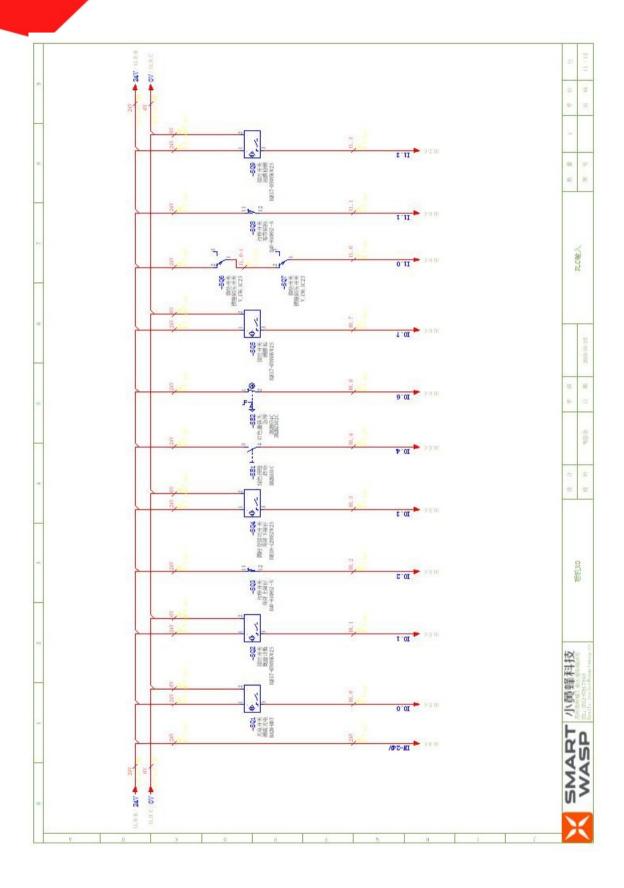








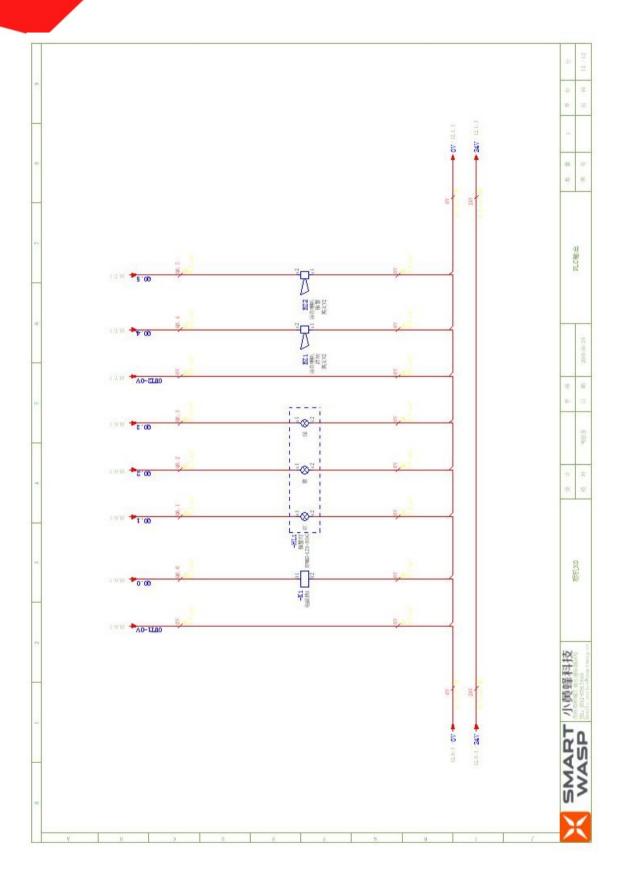














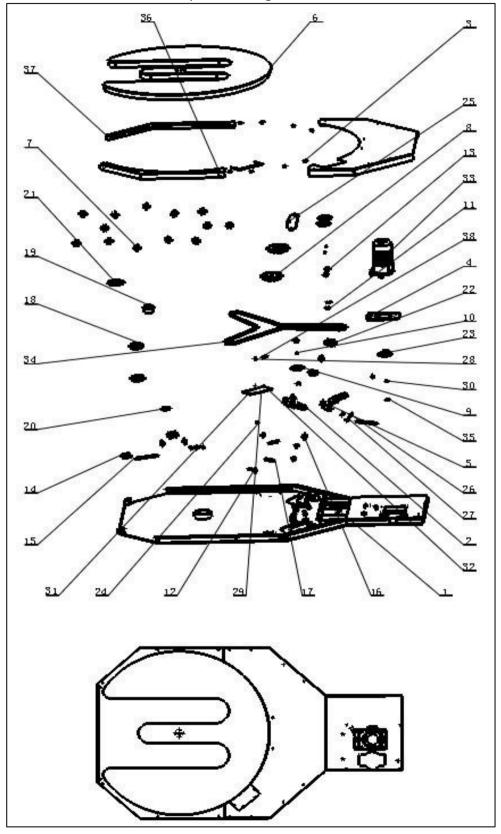






8.2 Component breakdown diagram and detailed list

8.2.1Turntable decomposition diagram and schedule

















NO.	Workpiece number	Workpiece name	Quantity
1	9XXDI000087	M-type turntable welding basics (simple version)	1
2	9XXDI000048	Right swing arm welding	1
3	9XXDI000081	Cover plate welding	1
4 5	9XXDA000018	Motor mounting plate weldingparts	1
5	9XXDI000047	Left swing arm welding	1
6	9XXDI000026	Turntable welding	1
7	9XXDI000150	Turntable roller assembly	13
8	9XXDI000149	Rubber wheel drive components	2
9	9XXDI000042	Transition sprocket	3
10	d25	Circlip for shaft	3
11	D52	Circlip for hole	3
12	9XXDI000036	Shaft sleeve	4
13	6205	Deep groove ball bearing	3
14	9HXWS000213	Connector	2
15	9XXDI000038	Screw	2
16	9HXWS000215	Fixed piece	4
17	9XXDI000058	Swing arm cover	2
18	JZCJJ000005	Angular contact ball bearing7017C	2





19	9XXDI000045	Spindle	1
20	9XXDI000059	Spindle gland	1
21	9XXDI000060	Bearing gland	1
22	9HXWS000214	Buffer compression spring	2
23	9XXDI000044	Motor sprocket	1
24	9XXDI000065	Swing arm gland	2
25	9XXDI000032	Center cover	1
26	9XXDI000066	Buffer gasket	4
27	9XXDI000041	Cushion	2
28	9XXDI000075	Induction block	1
29	9XXDI000067	Stopper cover	1
30	9XXDI000068	Motor sprocket gland	1
31	JJGLM000027	Square nut M6	1
32	9XXDI000091	Sensor bracket	1
33	JDJJL000013	CVtypeverticalaluminumhousing geared motor	1
34	JQTQT000108	Chain A10	1
35	9XXDA000008	Gland	1
36	9XXDI000084	Side cover 1	1
37	9XXDI000085	Side cover 2	1
38	DKGJJ000008	Cylindrical proximity switch	1









8.3 Column exploded view and detail list

1) Column installation exploded view

NO.	Workpiece number	Workpiece name	Quantity
1	9XXLG000273	Side door (new)	3
2	9XXLG000106	Rear door panel	3
3	9XXLG000193	Lifting power unit (lifting motor)	1
4	9XXLG000100	Light guide plate	1
5	9XXLG000101	Light box	1
6	9XXLG000145	Wheel mechanism	1
7	9XXLG000168	Top coaming welding piece	1
8	9XXLG000273	Side door panel (new)	3
9	9XXD0000042	Power Indicator	1
10	9XXD0000041	Start up buttonXB2-BA31C	1
11	9XXD0000043	Load switch LW26GS-25/2	1
12	9XXD0000044	Emergency stop button	1
13	DKGXZ000001	Travel switch	1
14	9XXLG000095	Electrical cover plate	1
15	9XXD0000038	Touch screen(SMART 700IE V3)	1
16	JQTQT000002	Tank drag chain	1
17	DKGJJ000008	Cylindrical proximity switch	1









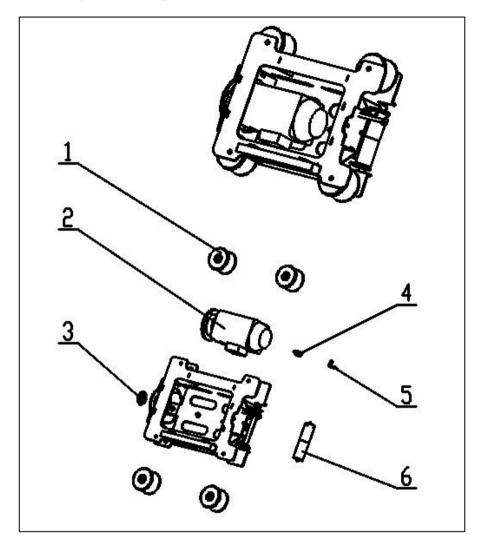
18	9XXLG000153	Lower limit switch mounting bracket	1
19	9XXLG000152	Proximity switch frame	1
20	9XXLG000212	2650Siemens column welding parts	1
21	9XXLG000108	Switchboard	1
22	9XXLG000201	Trolley travel mechanism	1
23	JQTQT000005	Key of door	1
24	JQTQT000004	Door lock	1







2) Breakdown diagram of lifting car



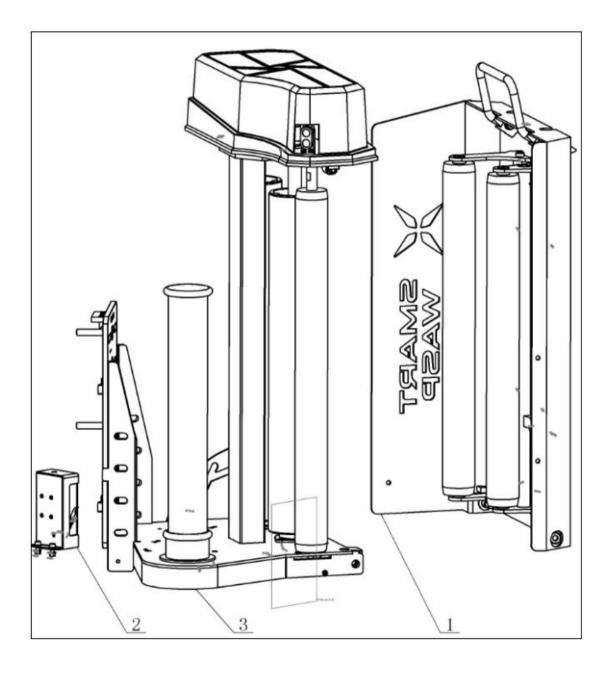
NO.	Workpiece number	Workpiece name	Quantity
1	9XXLG000141	Guide wheel assembly	4
2	JDJJL000004	Lift car motor	1
3	9XXLG000200	Film carriage main power sprocket (18 teeth)	1
4	DKGJJ000001	Proximity switch (normally open)	1
5	9XXLG000214	Counting switch mounting bracket	1
6	9XXLG000135	Take-up wheel assembly	1





8.4 Film carriage exploded view and detail list

1) Exploded view of the assembly of the micro-movement film seat (with electromagnetic cutting)



NO.	Workpiece number	Workpiece name	Quantity
1	9XXSD000100	Micro-movement film carriage door body	1
2	9XXSE00010	Film seat cutting module	1
3	9XXSE000111	Main frame of membrane	1

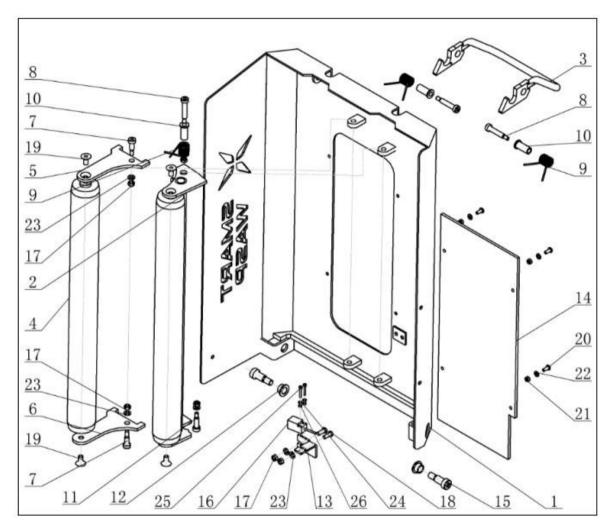








2) Exploded view of the door body of the micro-movement membrane seat



NO.	Workpiece number	Workpiece name	Quantity
1	9XXSE000106	Film carriage door	1
2	9XXSE000104	Micro-motion induction roller mounting frame	1
3	9XXSA000068	Film carriage door handle	1
4	9XXSA000071	Film seat guide film roller(L523)	2
5	9XXSE000102	Film seat guide film roll up fixing piece	1
6	9XXSE000103	Film seat guide film roll down fixed piece	1
7	JJGLD000289	Contour screw φ8-L16-M6	2
8	JJGLD000225	Contour screw Ф8-L35-M6	3



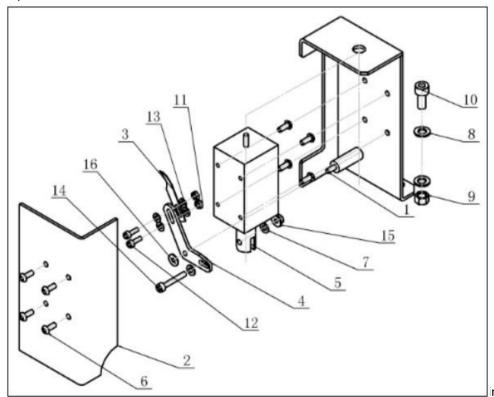






9	9XXSA000063	Door handle reset torsion spring	3
10	9XXSA000014	Handle shaft copper sleeve	3
11	JJGLD000224	Contour screw Φ8-L20-M6	1
12	9XXSA000006	Door shaft copper sleeve	2
13	9XXSB000006	Proximity switch holder	1
14	9XXSA000062	Observation board	1
15	JJGLD000226	Contour screw Φ12-L20-M10	2
16	DKGJJ000001	Proximity switch (normally open)	1
17	JJGLM000018	Lock nut M6	6
18	JJGLD000080	Hexagon socket flat head screw M6X16	2
19	JJGLD000152	Hexagon socket countersunk head screw M8X16	4
20	JJGLD000071	Hexagon socket flat head screw M5X12	4
21	JJGLM000026	Lock nut M5	4
22	JJGPD000001	Flat washer M5X1	4
23	JJGPD000002	Flat washer M6X1.6	5
24	JJGPD000006	Flat washer M3X0.5	2
25	JJGLD000039	Hexagon socket head screw M3X20	2

3) Exploded view of membrane seat cutt



ing module







NO.	Workpiece number	Workpiece name	Quantity
1	9XXSD000012	Film carriage cutting bracket welding	1
2	9XXSD000003	Broken film cover	2
3	9XXSD000006	Broken film blade	1
4	9XXSD000002	Broken film connecting rod	1
5	JQTDC000001	Broken film electromagnet	1
6	JJGLD000062	Hexagon socket flat head screw M3X8	8
7	JJGPD000006	Flat washer M3X0.5	4
8	JJGPD000001	Flat washer M5X1	4
9	JJGLM000004	Hex nut M5	2
10	JJGLD000024	Hexagon socket head screw M5X12	2
11	JJGLD000240	Hex nut M2.5	2
12	JJGLD000239	Hexagon socket head screw M2.5×8	2
13	JJGPD000011	Flat washer M2.5×0.5	4
14	JJGLD000039	Hexagon socket head screw M3X20	1
15	JJGLM000021	Lock nut M3	1
16	JJGSJ000001	Internal tooth lock washer Φ2.5×0.3	1

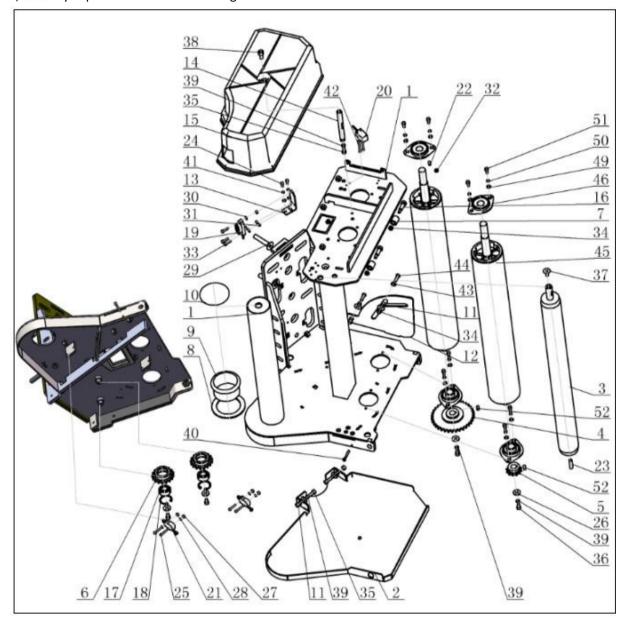








4) Partially exploded view of film carriage main frame



NO.	Workpiece number	Workpiece name	Quantity
1	9XXSE000112	Main frame and top plate welding	1
2	9XXSE000121	Safety board	1
3	9XXSA000138	Film seat film guide roller (L607)	1
4	9XXSA000058	Transmission from sprocket 1 (35 teeth)	1
5	9XXSA000127	Transmission from sprocket 2 (12 teeth)	1
6	9XXSA000041	Tension sprocket	2





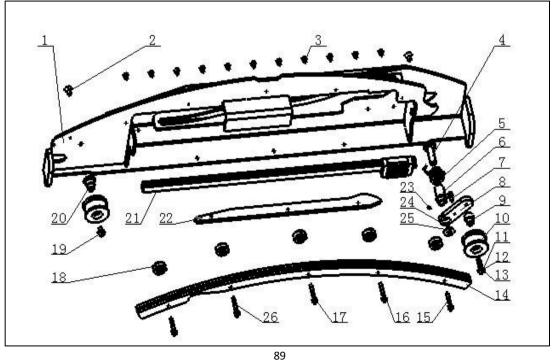
7 9XXSA000061 Straight push mechanism roller 2 8 9XXSA000055 Film roll bottom gasket 1 9 9XXSA000056 Fixed sleeve under film roll 1 10 9XXSA000057 Film roll column top fixing piece 1 11 9XXSA000003 Door opening limit bushing 4 12 9XXSA000002 Door opening limit plate 1 13 9XXSA000034 Photoelectric switch bracket 1 14 9XXSC000003 Heightening membrane seat cover fixing column 1 15 9XXSC000009 New model membrane seat top cover 1 16 JJGLD000224 Contour screw Φ8-L20-M6 2 18 JDQKY000001 Retaining ring for hole D=30 2 19 DKGGD000001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 Hexagon socket set screws with flat point M8 30 23 J				
9 9XXSA000056 Fixed sleeve under film roll 1 10 9XXSA000057 Film roll column top fixing piece 1 11 9XXSA000003 Door opening limit bushing 4 12 9XXSA000002 Door opening limit plate 1 13 9XXSA000034 Photoelectric switch bracket 1 14 9XXSC000003 Heightening membrane seat cover fixing column 1 15 9XXSC000009 New model membrane seat top cover 1 16 JJGLD000224 Contour screw Φ8-L20-M6 2 16 JJGLD000224 Contour screw Φ8-L20-M6 2 18 JDQKY000001 Retaining ring for hole D=30 2 19 DKGGD000001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000221 M5 top wire 1 24 JJGLD000230 Hexagon socket set screws with flat point M8 ×30 1 24 JJGLD000039 Hexagon socket head screw M4X10 2 25 JJGLD00009 Large washer M6X1.6 8 27 JJGLD00009 Large washer M6X1.6 8 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M3X0.5 10 31 JJGLD000029 Lock nut M4 3 32 JJGLD000029 Hexagon socket head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLD000029 Lock nut M4 3 32 JJGLD000029 Hexagon socket head screw M4X16 3 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	7	9XXSA000061	Straight push mechanism roller	2
10	8	9XXSA000055	Film roll bottom gasket	1
11	9	9XXSA000056	Fixed sleeve under film roll	1
12 9XXSA000002 Door opening limit plate 1 13 9XXSA000134 Photoelectric switch bracket 1 14 9XXSC000003 Heightening membrane seat cover fixing column 1 15 9XXSC00009 New model membrane seat top cover 1 16 JJGLD000224 Contour screw Φ8-L20-M6 2 16 JJGLD000224 Contour screw Φ8-L20-M6 2 18 JDQKY000001 Retaining ring for hole D=30 2 19 DKGGD000001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD00001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000220 Hexagon socket set screws with flat point M8 ×30 1 24 JJGLD00027 Hexagon socket head screw M4X10 2 25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD00009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000029 Hexagon socket head screw M4X16 3 33 JJGLM000004 Hex nut M5 1 33 JJGLM000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	10	9XXSA000057	Film roll column top fixing piece	1
13 9XXSA000134 Photoelectric switch bracket 1 14 9XXSC000003 Heightening membrane seat cover fixing column 1 15 9XXSC000009 New model membrane seat top cover 1 16 JJGLD000224 Contour screw Ф8-L20-M6 2 16 JJGLD000224 Contour screw Ф8-L20-M6 2 18 JDQKY000001 Retaining ring for hole D=30 2 19 DKGGD000001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000230 Hexagon socket set screws with flat point M8 1 24 JJGLD00027 Hexagon socket head screw M3X20 6 25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000007 Flat wash	11	9XXSA000003	Door opening limit bushing	4
14 9XXSC000003 Heightening membrane seat cover fixing column 1 15 9XXSC000009 New model membrane seat top cover 1 16 JJGLD000224 Contour screw Ф8-L20-M6 2 16 JJGLD000224 Contour screw Ф8-L20-M6 2 18 JDQKY000001 Retaining ring for hole D=30 2 19 DKGGD000001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000230 Hexagon socket set screws with flat point M8 x30 1 24 JJGLD00027 Hexagon socket head screw M4X10 2 25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD00009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLM0000174 Hexagon socket	12	9XXSA000002	Door opening limit plate	1
15 9XXSC000009 New model membrane seat top cover 1 16 JJGLD000224 Contour screw Φ8-L20-M6 2 16 JJGLD000224 Contour screw Φ8-L20-M6 2 18 JDQKY000001 Retaining ring for hole D=30 2 19 DKGGD000001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000230 Hexagon socket set screws with flat point M8 x30 1 24 JJGLD000027 Hexagon socket head screw M4X10 2 25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washe	13	9XXSA000134	Photoelectric switch bracket	1
16 JJGLD000224 Contour screw Φ8-L20-M6 2 16 JJGLD000224 Contour screw Φ8-L20-M6 2 18 JDQKY000001 Retaining ring for hole D=30 2 19 DKGGD000001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000230 Hexagon socket set screws with flat point M8 x30 1 24 JJGLD000027 Hexagon socket head screw M4X10 2 25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000074 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4	14	9XXSC000003	Heightening membrane seat cover fixing column	1
16 JJGLD000224 Contour screw Φ8-L20-M6 2 18 JDQKY000001 Retaining ring for hole D=30 2 19 DKGGD000001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000230 Hexagon socket set screws with flat point M8 x30 1 24 JJGLD000027 Hexagon socket head screw M4X10 2 25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hexagon socket head screw M4X16	15	9XXSC000009	New model membrane seat top cover	1
18 JDQKY000001 Retaining ring for hole D=30 2 19 DKGGD000001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000230 Hexagon socket set screws with flat point M8 x30 1 24 JJGLD000027 Hexagon socket head screw M4X10 2 25 JJGDD000039 Hexagon socket head screw M3X20 6 26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLM000018 Hexagon socket head screw M4X16 3<	16	JJGLD000224	Contour screw Ф8-L20-M6	2
19 DKGGD00001 Photoelectric switch 1 20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000230 Hexagon socket set screws with flat point M8 ×30	16	JJGLD000224	Contour screw Ф8-L20-M6	2
20 DKGJJ000001 Proximity switch (normally open) 1 21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000230 Hexagon socket set screws with flat point M8 x30 1 24 JJGLD000027 Hexagon socket head screw M4X10 2 25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	18	JDQKY000001	Retaining ring for hole D=30	2
21 DKGWD000001 Micro Switch 2 22 JJGLD000221 M5 top wire 1 23 JJGLD000230 Hexagon socket set screws with flat point M8 x30 1 24 JJGLD000027 Hexagon socket head screw M4X10 2 25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	19	DKGGD000001	Photoelectric switch	1
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Hexagon socket set screws with flat point M8	21	DKGWD000001	Micro Switch	2
23 JJGLD000230 ×30 1 24 JJGLD000027 Hexagon socket head screw M4X10 2 25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLM000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	22	JJGLD000221	M5 top wire	1
X30	23	HGI D000230	Hexagon socket set screws with flat point M8	1
25 JJGLD000039 Hexagon socket head screw M3X20 6 26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	25	JJGLD000230	×30	1
26 JJGPD000009 Large washer M6X1.6 8 27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	24	JJGLD000027	Hexagon socket head screw M4X10	2
27 JJGLM000021 Lock nut M3 4 28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	25	JJGLD000039	Hexagon socket head screw M3X20	6
28 JJGPD000006 Flat washer M3X0.5 10 29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	26	JJGPD000009	Large washer M6X1.6	8
29 JJGLD000174 Hexagon socket countersunk head screws M10X5005 2 30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	27	JJGLM000021	Lock nut M3	4
30 JJGPD000007 Flat washer M4X0.8 5 31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	28	JJGPD000006	Flat washer M3X0.5	10
31 JJGLM000022 Lock nut M4 3 32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	29	JJGLD000174	Hexagon socket countersunk head screws M10X5005	2
32 JJGLM000004 Hex nut M5 1 33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	30	JJGPD000007	Flat washer M4X0.8	5
33 JJGLD000029 Hexagon socket head screw M4X16 3 34 JJGLM000018 Lock nut M6 3	31	JJGLM000022	Lock nut M4	3
34 JJGLM000018 Lock nut M6 3	32	JJGLM00004	Hex nut M5	1
	33	JJGLD000029	Hexagon socket head screw M4X16	3
15 HG17999999	34	JJGLM000018	Lock nut M6	3
Hexagon socket head screw M6X16 3	35	JJGLD000002	Hexagon socket head screw M6X16	3
36 JJGLD000005 Hexagon socket head screw M6X10 4	36	JJGLD000005	Hexagon socket head screw M6X10	4





		<u> </u>	
37	JJGLD000152	Hexagon socket countersunk head screw M8X16	1
38	JJGLD000043	Hexagon socket head screw M8X16	1
39	JJGTD000004	Elastic washer M6X1.6	6
40	JJGLD000032	Hexagon socket head screw M4X30	1
41	JJGTD000002	Elastic washer M4X1.1	2
42	JJGTD000001	Elastic washer M3X0.8	2
43	JJGPD000002	Flat washer M6X1.6	2
44	JJGLD000244	Hexagon socket flat head screw M6×20	2
45	9XXSE000089	Little Hornet Film Roll	2
46	JZCDZ000048	Bearing with seat	4
47	JJGLD000236	Hexagon socket set screws with flat point M6 ×16	1
48	JJGLM000005	Hex nut M6	1
49	JJGP000001	Flat washer M5×1_1	8
50	JJGTD000003	Elastic washer M5X1.3	8
51	JJGLD000334	内六角圆柱头螺钉 M5×12_1	8
52	JJCPJ000001	Ordinary flat key-A type	2

8.5 Clamping and cutting film exploded view and schedule1)Cut film frame







NO.	Workpiece number	Workpiece name	Quantity
1	9XXAA000055	1650 broken film frame welding parts	1
2	JJGLD000248	Hexagon socket countersunk head screw M8×16	2
3	JJGLD000253	Hexagon socket countersunk head screw M6×12	14
4	9XXAA000068	Belt tensioner fixed shaft	1
5	9XXAA000069	Tension torsion spring	1
6	9XXAA000070	Belt tensioning fixed sleeve	1
7	JJGLD000251	Hexagon socket head screw M6×16	1
8	9XXAA000071	Transition mounting plate	1
9	9XXAA000072	Belt tensioner fixed shaft	1
10	9XXAA000066	Pulley assembly	2
11	JJGPD000003	Flat washer M8X1.6	2
12	JJGTD000005	Elastic washer M8X2.1	2
13	JJGLD000252	Hexagon socket flat head screw M8×35	1
14	9XXAA000076	Belt chute	1
15	JJGLD000254	Hexagon socket head screw M6×40	2
16	JJGPD000002	Flat washer M6X1.6	5
17	JJGTD000004	Elastic washer M6X1.6	6
18	9XXAA000075	Custom bearings	5
19	JJGLD000249	Hexagon socket flat head screw M8×16	1
20	9XXAA000065	Belt fixed wheel installation shaft	1
21	JCDZX000002	Sliding track	1
22	9XXAA000074	Film guide plate	1
23	JJGLD000250	Hexagon socket set screw with cone point M5×8	1
24	JJGLD000244	Hexagon socket flat head screw M6×20	1

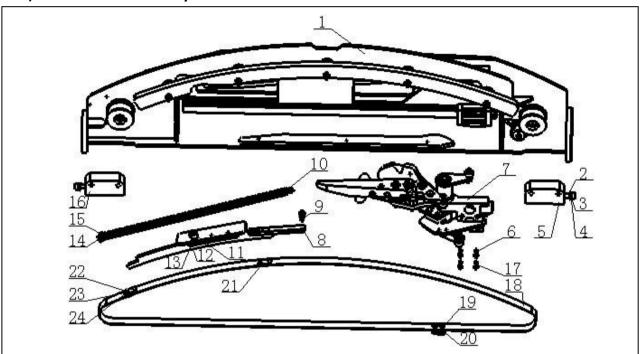






25	JJGPD000014	Enlarged flat pad Φ6×25×2	1
26	JJGLD000255	Hexagon socket head screw M6×45	3

Broken film assembly



NO.	Workpiece number	Workpiece name	Quantity
1	9XXAA000053	1650 broken film frame assembly	1
2	JJGLD000264	Hexagon socket head screw M8×30	2
3	JJGPD000003	Flat washer M8X1.6	2
4	JJGTD000005	Elastic washer M8X2.1	2
5	9XXAA000141	Device right fixed foot	1
6	JJGLD000268	Hexagon socket head screw M5×16	
7	9XXAA000004	Break film movement components	1
8	9XXAA000099	Reset connection board	1
9	JJGLD000247	Hexagon socket head screw M6×20	1
10	9XXAA000111	Conversion belt reset tension spring	1
11	JZCGZ000001	Cam follower	1
12	9XXAA000139	Belt sliding rod welding parts	1







9XXAA000018	Broken film follower bushing	1
JJGLD000251	Hexagon socket head screw M6×16	1
JJGLM000005	Hex nut M6	3
9XXAA000112	Device left fixed foot	1
JJGTD000003	Elastic washer M5X1.3	6
9XXAA000080	Conversion belt	1
JJGLD000266	Hexagon socket head screw M5×12	2
9XXAA000114	Belt pressure pad	1
9XXAA000154	Belt press	3
JJGLD000256	Hexagon socket head screw M3×16	1
JJGTD000001	Elastic washer M3X0.8	1
JJGPD000006	Flat washer M3X0.5	1
	JJGLD000251 JJGLM000005 9XXAA000112 JJGTD000003 9XXAA000080 JJGLD000266 9XXAA000114 9XXAA000154 JJGLD000256 JJGTD000001	JJGLD000251 Hexagon socket head screw M6×16 JJGLM000005 Hex nut M6 9XXAA000112 Device left fixed foot JJGTD000003 Elastic washer M5X1.3 9XXAA000080 Conversion belt JJGLD000266 Hexagon socket head screw M5×12 9XXAA000114 Belt pressure pad 9XXAA000154 Belt press JJGLD000256 Hexagon socket head screw M3×16 JJGTD000001 Elastic washer M3X0.8

8.6 Spare and wearing parts

NO.	Workpiece name	Workpiece number	Quantity
1	Cylindrical proximity switch	DKGJJ000008	1
2	Proximity switch (normally open)	DKGJJ000001	2
3	Microswitch	DKGWD00001	2
4	Bearing package nylon	9XXDI000073	19 sets
5	Film roll gasket	9XXSA000055	1
6	Film roll sleeve	9XXSA000056	1









9. Electric Diagram

9.1 MOUNTING PLATE LAYOUT









9.2 WIRE COLOR TABULATION & CODE

Wiring Standard

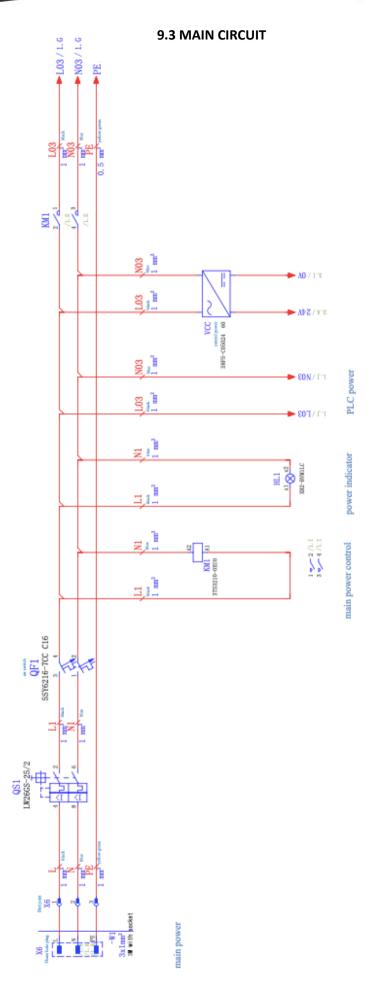
single-phase L	red	/RD	L
N	blue	/BU	N
Control power supply 24V	brown	/BN	24V
0V	blue	/BU	OV
equipment IN	brow	/BN	
equipment OUT	n	/BU	
	blue	/BK	
	black		











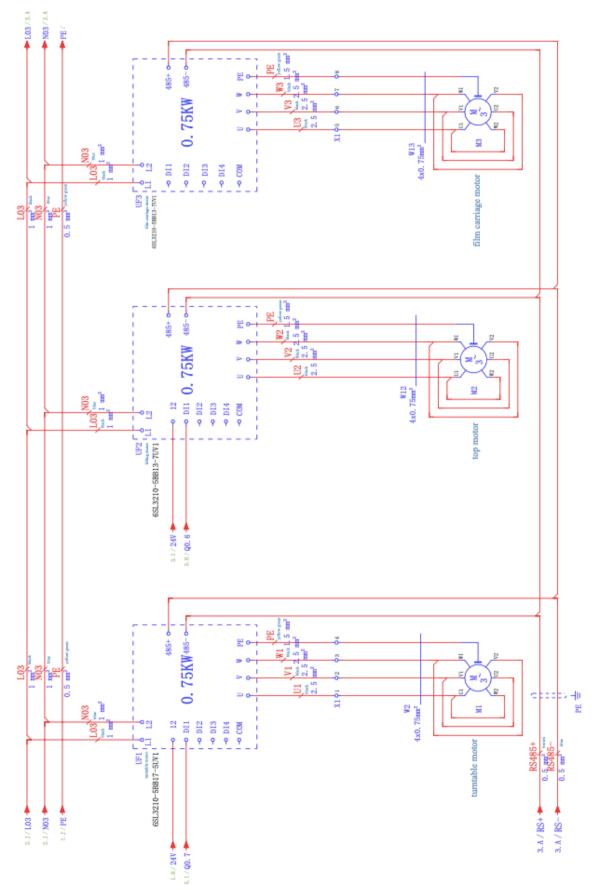








9.4 INVERTER WIRING

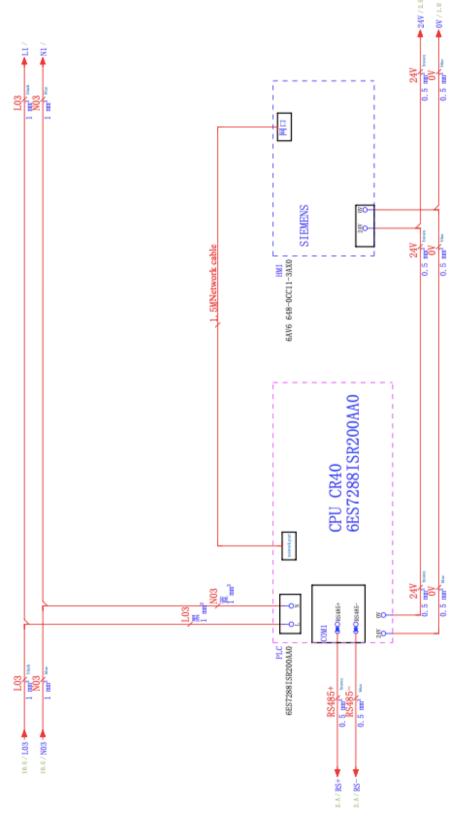








9.5 PLC TOUCH SCREEN

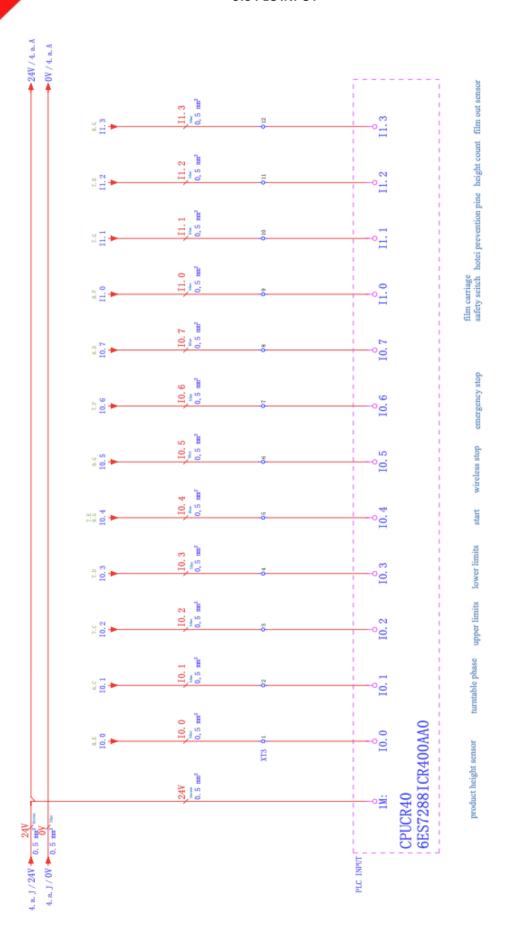








9.6 PLC INPUT



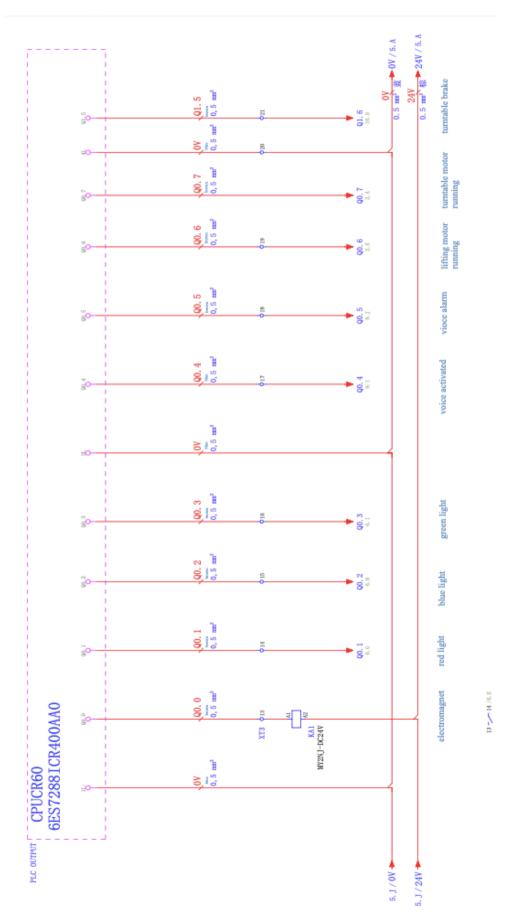








9.7 PLC OUTPUT

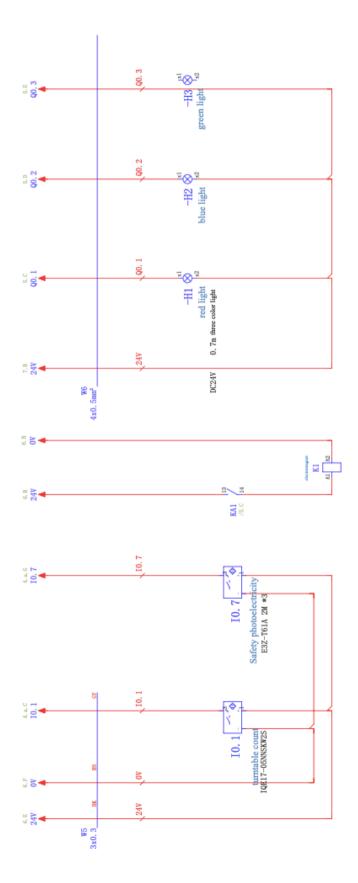








9.8 EXTERNAL TURNTABLE & LAMP LINE

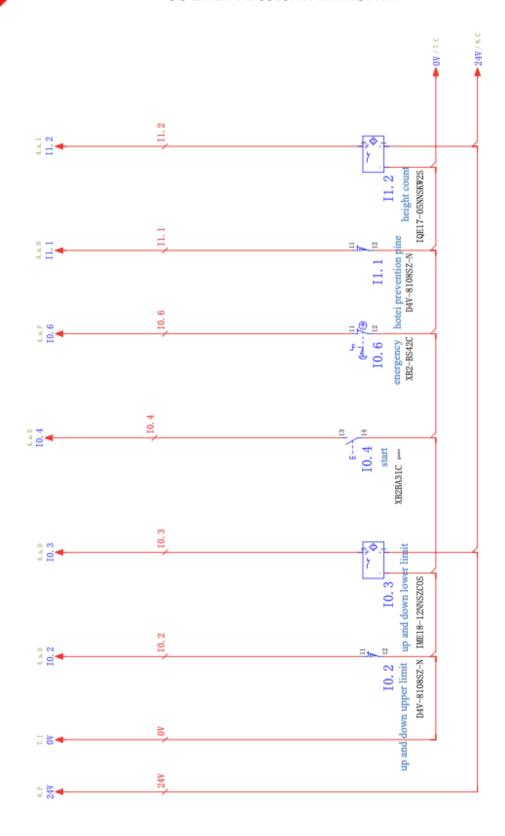








9.9 EXTERNAL COLUMN WIRING PART



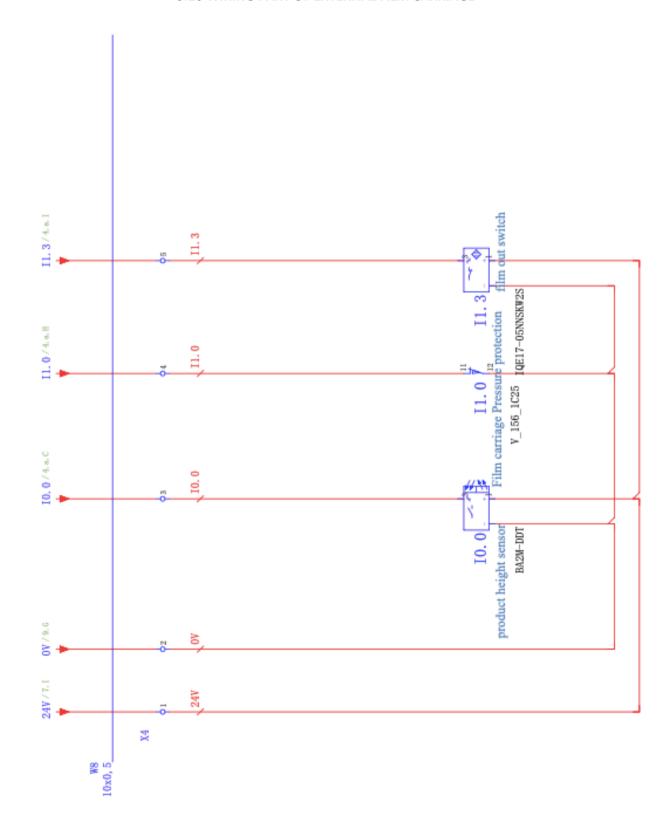








9.10 WIRING PART OF EXTERNAL FILM CARRIAGE



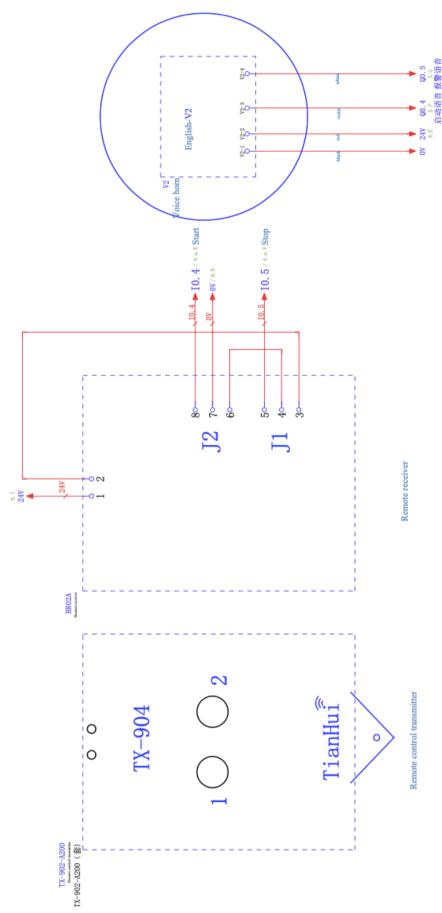








9.11 REMOTE CONTROL & VOICE ALARM WIRING





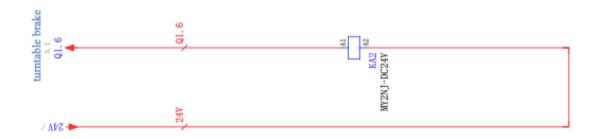






9.12 BRAKING









10. CE Certificate of Compliance

Certificate of Compliance

No. 0H170410.SJA0N74 Test Report no. SCC_17_-08212-10

Certificate's Suzhou Jiajun Auto-Well Industrial

Holder: Automation Co., Ltd.

No.26 Chengyang Road Xiangcheng Zone Suzhou City

Jiangsu Province China

Certification ECM Mark:



Product: Pallet Wrapping Machine

Trademark: SMART WASP

X1, X3, X5, X100, X300, X500, X500-3, X5-3, S300 Model(s):

Standard: Verification to:

EN ISO 12100:2010.

EN 60204-1:2006+A1:2009+AC:2010.

EN 61000-6-1:2007, EN 61000-6-3:2007+AC:2012,

EN 61000-3-2:2014, EN 61000-3-3:2013

related to CE Directive(s): 2006/42/EC (Machinery) 2014/35/EU (Low Voltage)

2014/30/EU (Electromagnetic Compatibility)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.entecerma.it. This Certificate of Compliance can be checked for validity at www.entecerma.it

This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the CE Marking:

We attest that a TCF for the CE Marking process is in place. Whereas the Manufacturer is Responsible to start the CE Marking Certification Procedure and to perform all the necessary activities, as required by the Directive before placing the C€ Mark on the product(s).

Date of issue 10 April 2017 Chief Manager

Expiry date 09 April 2022

Deputy Manager Amanda Payne

Ente Certificazione Macchine Sri

Via Ca Bella, 243 - Loc. Castello di Serravalle - 40053 Valsamoggia (BO) - ITALY 2 +39 051 6705141 \$\textit{\



Сертификат



