BULLMER

The Machine For GK-S Model Operation Instruction



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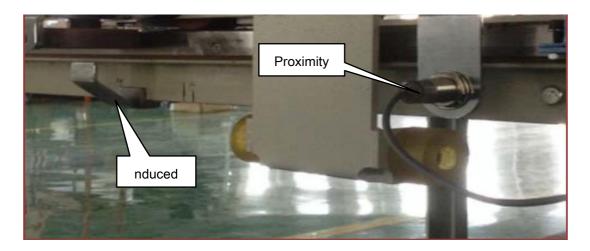
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Pay Attention To Before Operation:

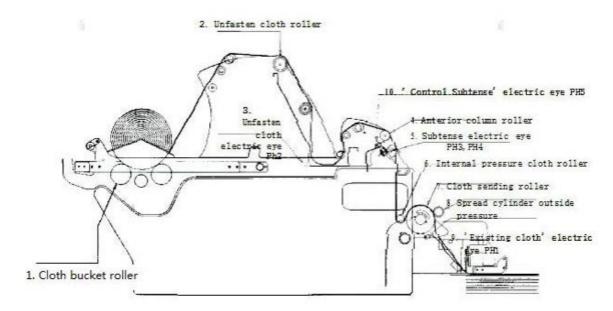


When proximity switch goes to left and passes through induction point, the current position returns to 0. This is the benchmark point of machine calculating position.returns to 0. This is the benchmark point of machine calculating position. Every time when proximity switch goes to left and passes through induction point, the current position will be returned to 0. When a machine uses more than two cutting beds, after moving by bed A to B, The first necessary action is: Connect power-power transmission-press it (release the brake), Gently push the machine from the right to the left (from the front to the back) to make proximity switch pass through induction point. Then the machine can determine its own benchmark position.

For sudden power failure during operation, the machine will stop sliding under the weak status. So, the benchmark position will run away and not in the original position, for this situation, after again power transmission, Must let the machine return to original position by inch move way, and re-run again The proximity switch passes through return-to-zero point from the right to the left to let machine re- determine its own benchmark position.

The machine will stop and not act as long as any swithch is faulty.

Normal Operation:



Rewinding Cloth:

Place as the above figure.

When spreading the necessary keys



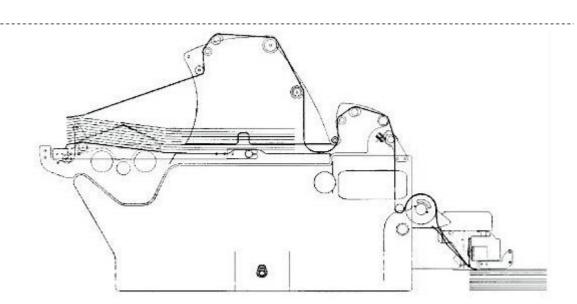












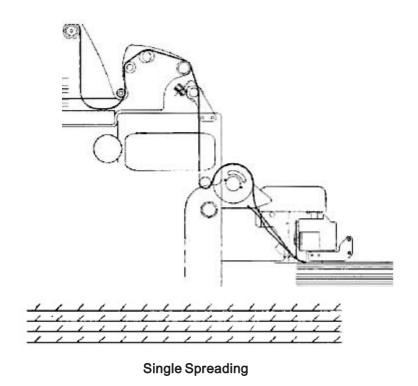
Folding yard cloth:

place as the above figure. When spreading the necessary keys are:



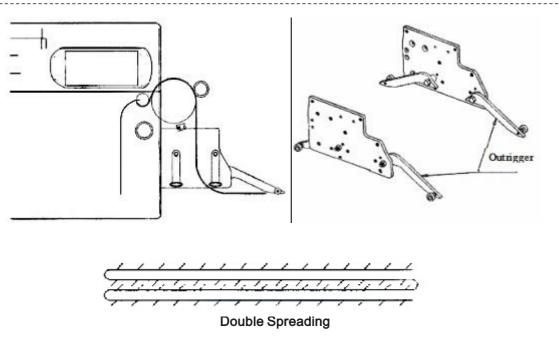






Hang up cutting group and plug connector,the spreader will automatically enter into <u>Single</u>

Spreading mode, and don't have to do any other setting



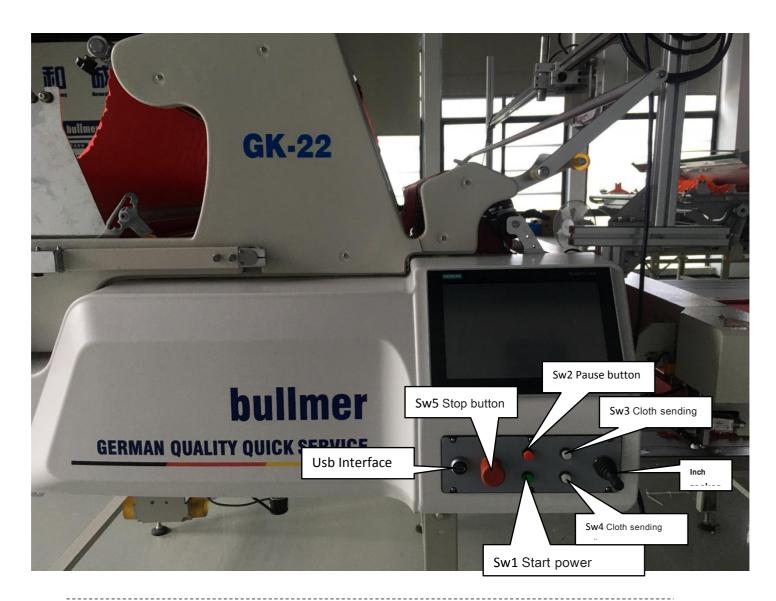
Remove the cutting group and install the outrigger,the spreader will automatically enter into *Double*

Spreading mode

Doublespreading: needs to use two-end pressure device, the back-end device should push forward and

be fixed the front point with bolt. (For single spreading, not needs back-end device, when double spreading should pull to bottom and be fixed the back point.)

Normal Operation:



Sw1 「Start power button」: Start power.

SW2 Press the machine to pause any action •

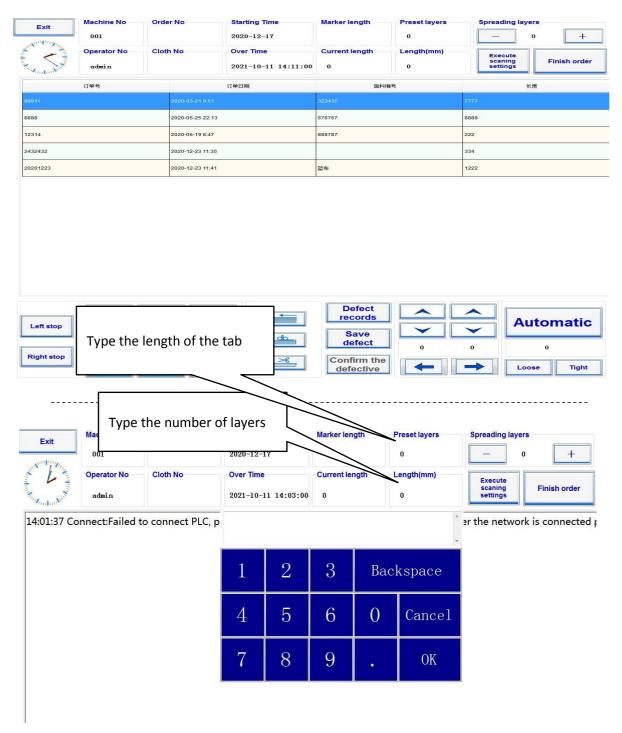
SW3 「Cloth sending roller」: Counterclockwise rotate button manually.

SW4 「Cloth sending roller」: Clockwise rotate manually. During spreading, the cloth sending roller will rotate with the machine's movement. Under the static status, if need to rotate cloth sending roller, please use these two buttons.

SW5 「Stop button」 : Stop button.Besides,two sides of cutting bed have set stop cables, pulling the cables is the same with pressing stop button.(Stop cables are the most commonly used stop devices)

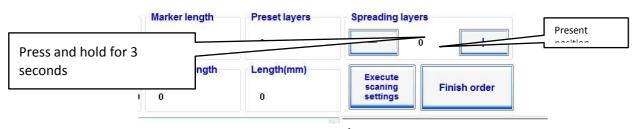
【Inch rocker】: Manually move the rocker for the machine.Pull right travel(forward)to the right;pull left travel (backward)to the left,and move forward in the direction of the rocker at a constant speed.Pull upwards-rise; Pull downwards-fall.

Normal Operation:



Click at the version length to display the numeric keypad. After typing the desired number, press enter to determine the "pull length". Unit: mm 1m = 1000mm

Click at the number of layers to display the numeric keypad. After typing the required number, press enter to confirm the number of layers.



Teaching mode: set the cloth length. When you don't know the exact cloth length, move the machine to the desired position, as shown in the figure, After holding the current position for three seconds, the current position will be set to the length of the page.

Normal Operation:



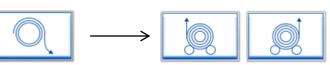
Rewinding cloths are placed into bucket and controlection







The piece of cloth will not use buckettion key ON to make bucket not operate.

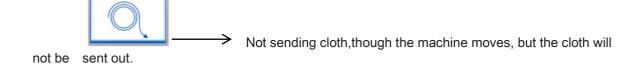


and cancel



Cloth Sending Button

Under the cloth sending status, when the machine moves, the cloth sending roller will send out cloth downwards by rotation.

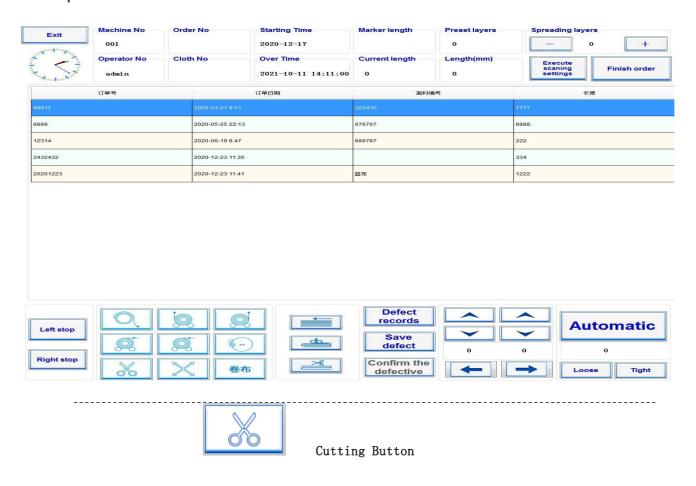




Automatic

Press automatic key and the spreader will enter into automatic spreading status. When the cloths are all set, confirm the direction be correct and then press the key to spread.

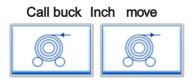
Normal Operation:



When the machine stops, press to carry out cutting action for one time.

If the cutter head doesn't stop at fixed position due to emergency stop, press

ake the head return to fixed position. When press the cutting button for manual cutting, the layer number value is unchanged.

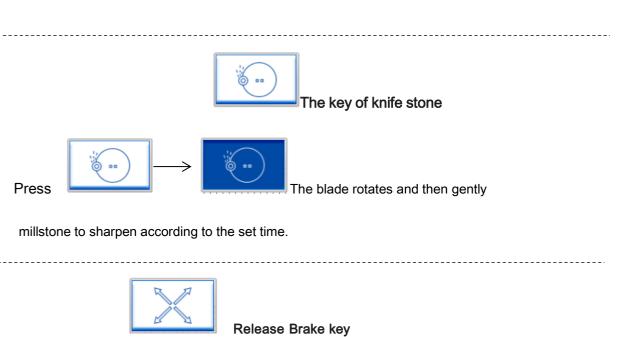




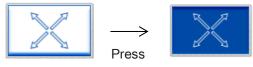
When press the cloth will roll back with low speed. When press



the cloth will roll out with low speed.





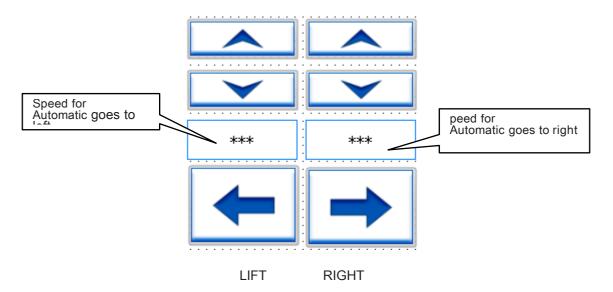


Release brake, can gently push and move machine by

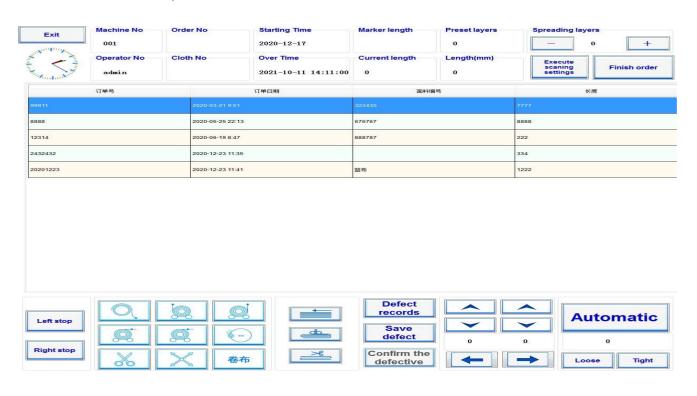
hands.



Brake locks and need to big strength to push machine.



Normal Operation:

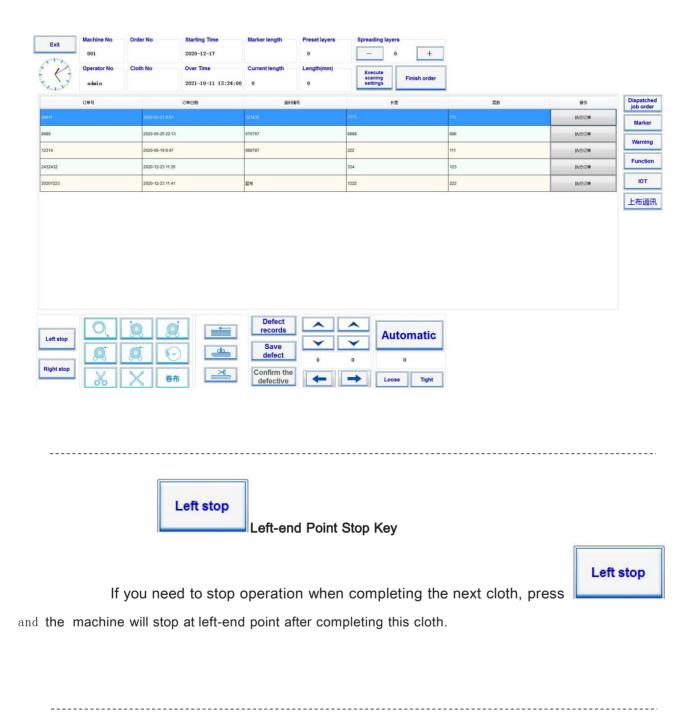


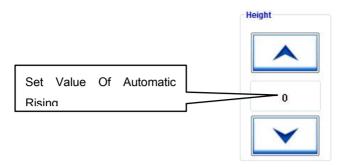


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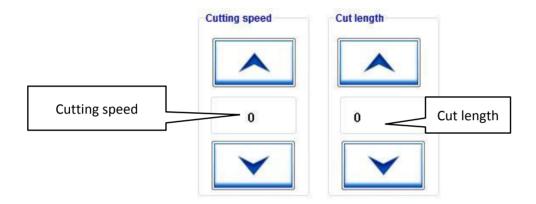
1. Press Layer mumber grid for 3 second to let all layer number grids return to 0.

Normal Operation:

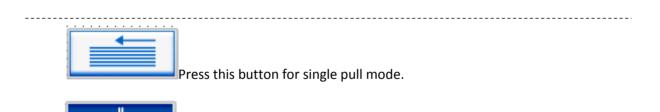




Automatic rising quantity. According to cloth thickness to set automatic rising quantity to make rising height is consistent with cloth stack height. Automatic rising will automatically rise one time when completing cutting during automatic spreading.



Cutting button 2: Press this button for manual cutting, the layer number will add 1. According to cloth nature and width to set cutting speed and length to make them well cooperate with.



Double spreading mode of hanging cutter group not automatically cut, and spreading mode of cylinder cloth using double -roller device



Press this button to double pull and double cut mode.

Dispatched job order

This interface is the operation interface.

Marker

This interface is the interface of some function switches and general parameters.

Warning

This interface is the view layout interface, which can view the clipping layout data.

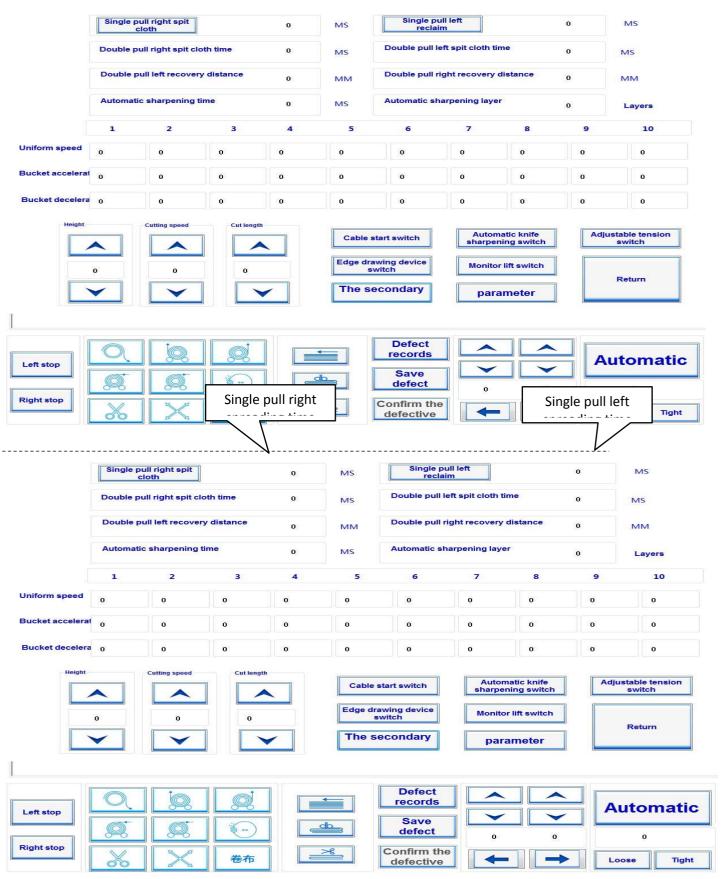
Function

This interface is the parameter interface.

This interface is an alarm interface, which can check the status of each input and output

port of PLC and whether each alarm signal is triggered.

Function interface:



Single pull right spit cloth

In single pull mode, when this button is triggered, the cloth laying set moves to the right, spits out more cloth at the end, and starts laying cloth.

Single pull left reclaim

In the single pull mode, when this button is triggered, the cloth laying set will walk to the left, spit out more cloth at the end, and start cloth laying.

Cable start switch

When this button is triggered, pull the cable switch for 3 seconds and the machine will automatically pause. If this button is not triggered, it will be in an emergency stop state.

Automatic knife sharpening switch

When this button is triggered, the machine will grind the tool according to the set number of automatic grinding layers, and the grinding time is controlled by the automatic grinding time.

Adjustable tension switch

When this button is triggered, the machine will automatically adjust the tightness value according to the fabric tightness reading to make the cloth laying effect better.

Edge drawing device switch

When this button is triggered, the edge setting device will automatically run edge setting according to the machine motion state.

Monitor lift switch

When this button is triggered, the lifting height can be monitored.

Two way cloth spreading right spreading time: in double pull mode, the cloth spreading shall travel to the right and more spreading time shall be given to the end, and the cloth shall be spread to the left at the beginning.

Left spreading time of two-way spreading: in the double pull mode, the spreading time shall be more when

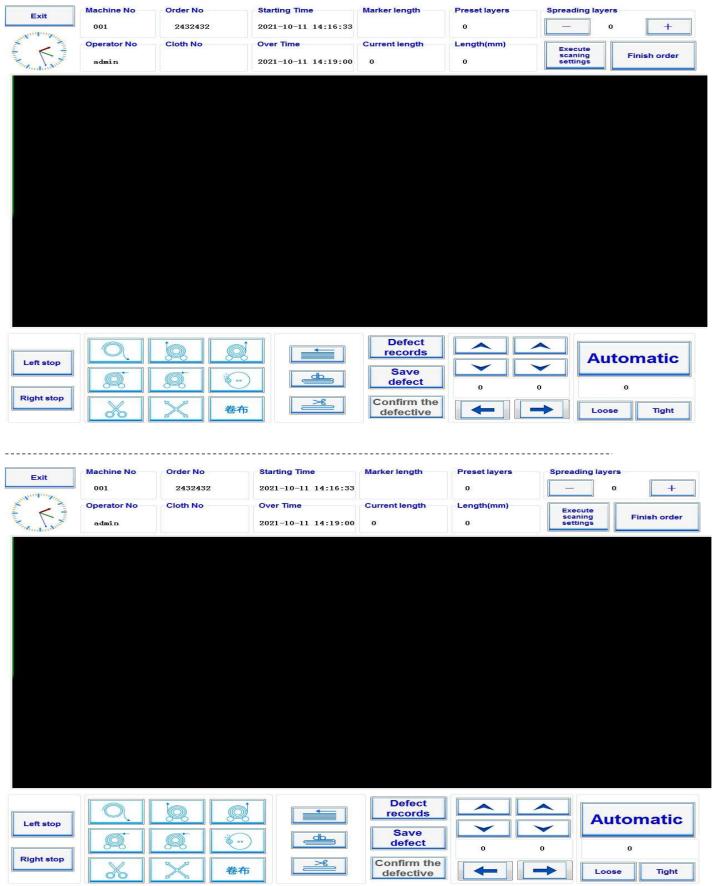
walking to the left and reaching the end point, and the spreading time shall be to the right at the beginning.

Two way paving right recovery distance: in the two-way paving mode, the distance before the end point of the right row of paving is recovered first, and the cloth is paved to the left after reaching the end point.

Left recovery distance of two-way paving: in the two-way paving mode, the distance before the end point of the left row of paving is recovered first, and the cloth is paved to the right after reaching the end point. 自动 Sharpening time: set the sharpening time when the automatic sharpening button is enabled.

Automatic sharpening layers: when the automatic sharpening button is enabled, set the number of cloth cutting layers before sharpening once.

Layout interface:



Dispatched job order

Press this button to jump to the dispatch list interface.

Confirm the

defective

When the layout is open, when the defect point is detected, the machine will run to the defect point position and roll back the fabric, and the machine will be in a suspended state. When the customer presses this button, the machine will automatically cut the cloth and run forward. The front of the cutting piece involved in the defect point will be laid and patched, and then continue to lay the cloth.

Automatic

Press down to lay cloth automatically.

Save defect

Select a defective piece in the layout, and the selected defective piece will be green.

Click this button to save the defective piece record.

Defect records

Click this button to view all defect information

Marker

Click this button to select the cutting layout of the paved fabric.

Simple troubles hooting:

Status	Reason	Countermeasure
Cutting blade does not rotate	1. Fuse F2 burnt 2. Amaged circuit board 3. Worn motor brushes or rotors	1. Check the fuse. 2. Open the cutter to measure whether the cutter output plug has a DC voltage of about 24V. If not, replace the circuit board. 3. The service life of the motor is about 1.5-3 years. It is recommended
Opposite cloth table does not move Unable to turn Press automatically unable to walk automatically	1. Fuse F2 burnt 2. Damaged circuit board 3. Opposite motor failure 1. Thermal electric translation tripping in 2. Open circuit of power OP relay is abnormal. OP must be in On state. ress 're rope	1. Check fuse 2. Cover the sensor and measure whether there is 24V DC voltage on the opposite output plug. If not, replace the circuit board. 3. This motor is not easy to break down without being hit 1. Open the electromagnetic contactor shell and press the back return lever OP power supply via limit switch of emergency stop steel cable. 1. Check if there is any cloth cutting bag or trolley pressing on the wire rope. 2. The angle deviation of the limit switch at the end of the steel cable is too large or fails. 3. Refer to P / 14 for booken wire.
	Machine stop OP continuous power off = unable to walk automatically	1. axis 2. Screw 1. Loosen the limit switch when the
		angle deviation is too large; 2. The screw repins let the axis spring back to the original point

Safety precautions:

- 1. The machine can only be operated after being trained by our technical service personnel; Please read this manual carefully before operating the machine.
- 2. When operating the machine, the operator must pay attention to the yellow warning sign on the machine and shall not extend his hand to the dangerous area.
- 3. When the machine is running, do not move within 0.5m from both sides of the machine.
- 4. When operating a machine without an anti-collision sensor, do not move in the area within the limits of the front and rear of the machine.
- 5. During the automatic operation of the machine, it is forbidden to increase or decrease the speed of the section. If this operation is required, it needs to be operated in manual mode.
- 6. The line shall not be dismantled or replaced without the permission of relevant technicians of our company. In case of any accident, bear the consequences!

Maintenance:



Figure1



 ${\tt Figure 2}$



Figure3

Basic Maintenance:

1. Chain: Add Lubricant And Adjust Elasticity

For lubricant of chain, 40# machine oil is advisable,addingonceevery2 months,note

Not excessive to avoid greasy dirt.

If lacking of oil, the chain is easy to wear. (The above figure's chain is the chain must add oil, don't add for the other chains)

2.Clean Dust

One week at least clean once with air gun and cleaning is the first step of high -quality work.

3.Clean surface dirt of wheels

The surface dirt of wheels is attached dirt, more dirt easily causes slip to make length not accurate.