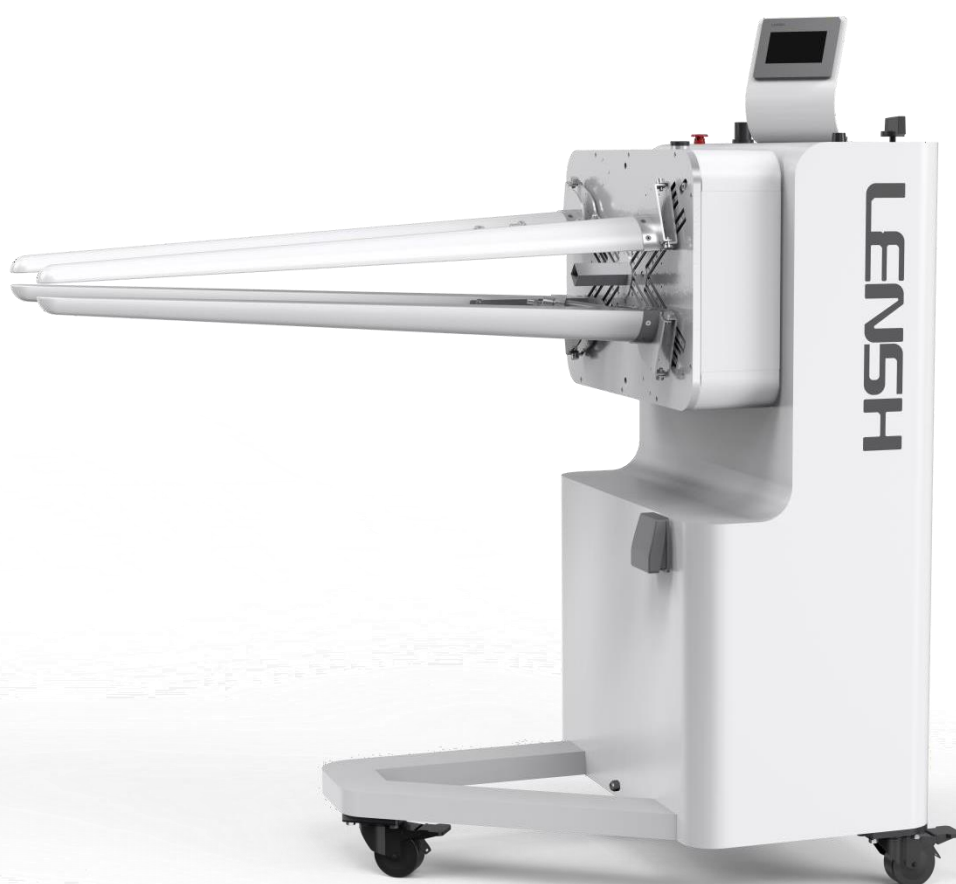


LS9251 ALampdetector

operation instruction



Zhejiang LENSH Intelligent Technology Co., Ltd.

version number: V1.0

Be sure to read this manual before using this product

COMPANY PROOFLIE

LENSH IS OPEN

Zhejiang LENSH Intelligent Technology Co., Ltd. is located in Ningbo, Zhejiang province, mainly engaged in the research and development of automatic sewing equipment, production, based on the forefront of intelligent sewing technology, is committed to becoming a benchmark enterprise of intelligent sewing equipment research and application.

The company is currently in the production of equipment LS5011 intelligent rope head knot machine, LS6021 rope threading machine, LS7031 intelligent access control machine, LS7041 sewing pressure two in one, LS7051 intelligent thread machine, LS8121 washing machine, LS2181 intelligent dispensing machine, etc., the company's product design covers the "integration of two" concept. The company has a strong management and technical research and development team, adhering to the "innovation, high efficiency, saving people, intelligent" business philosophy to step forward.

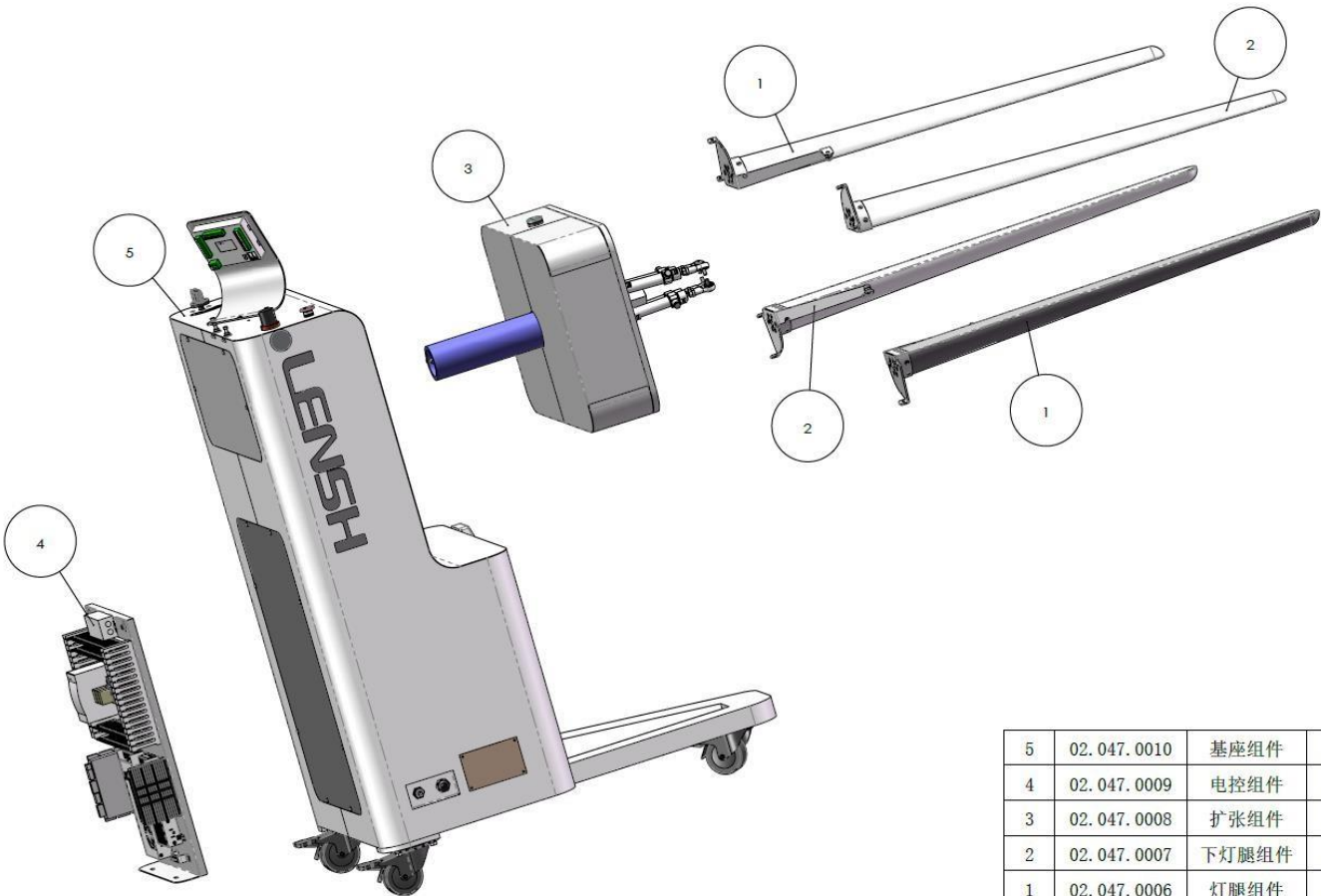
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1. specification

1	model	LS9251A
2	boundary dimension	1350X670X1370
3	Weight (net weight)	110Kg
4	nominal voltage	220V/50-60HZ
5	power	0.75KW
6	operating temperature	5°C~37°C
7	Use the humidity	25 % ~65 %
8	noise	<72dB % %
9	air pressure	0.4-0.8Mpa

2. Component assembly drawing



5	02.047.0010	底座组件	1
4	02.047.0009	电控组件	1
3	02.047.0008	扩张组件	1
2	02.047.0007	下灯腿组件	2
1	02.047.0006	灯腿组件	2
序号	物料编码	物料名称	数量

3. Operating Instruction

(1) power on

First insert the main power plug into the socket, then turn the switch to turn on the power. OFF indicates that the switch is off, and ON indicates that the switch is on.



(2) Debugging instruction

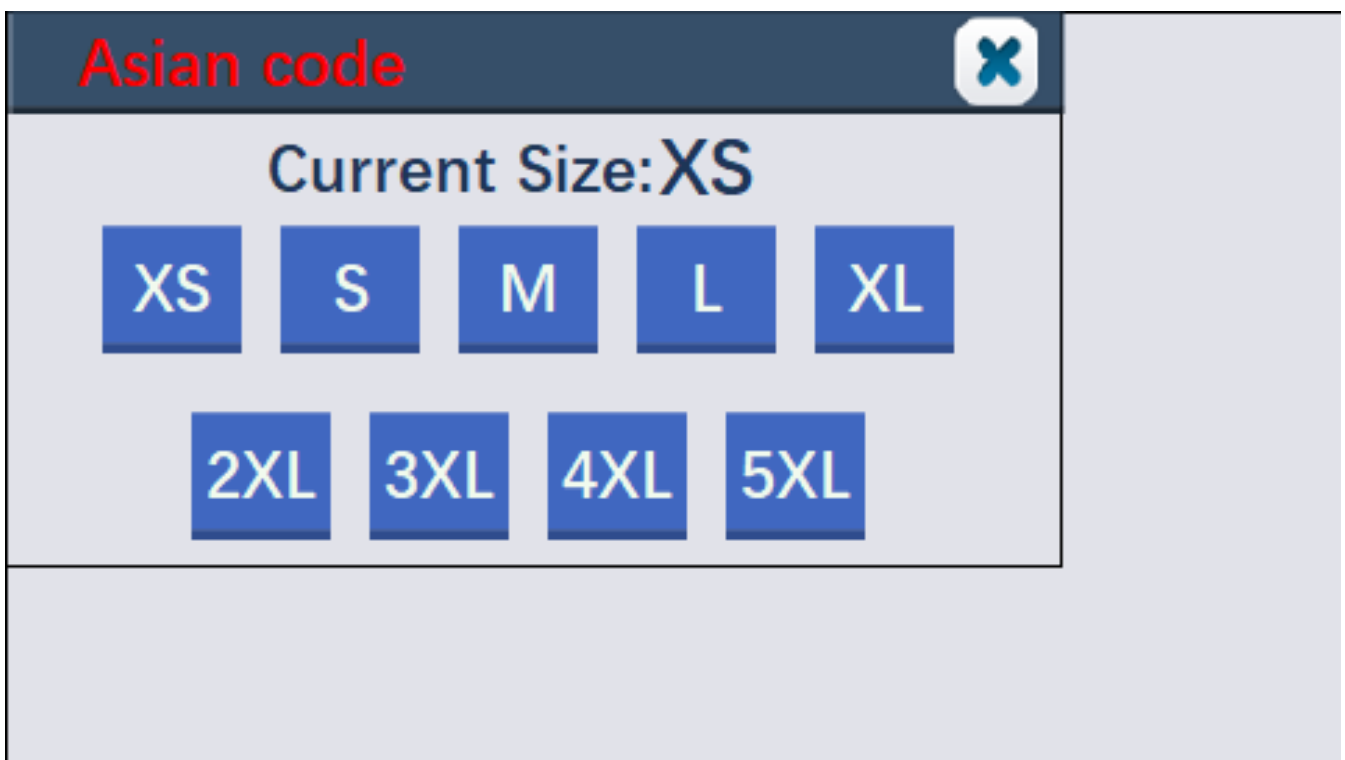
Step 3: (1) Click the screen to enter the system



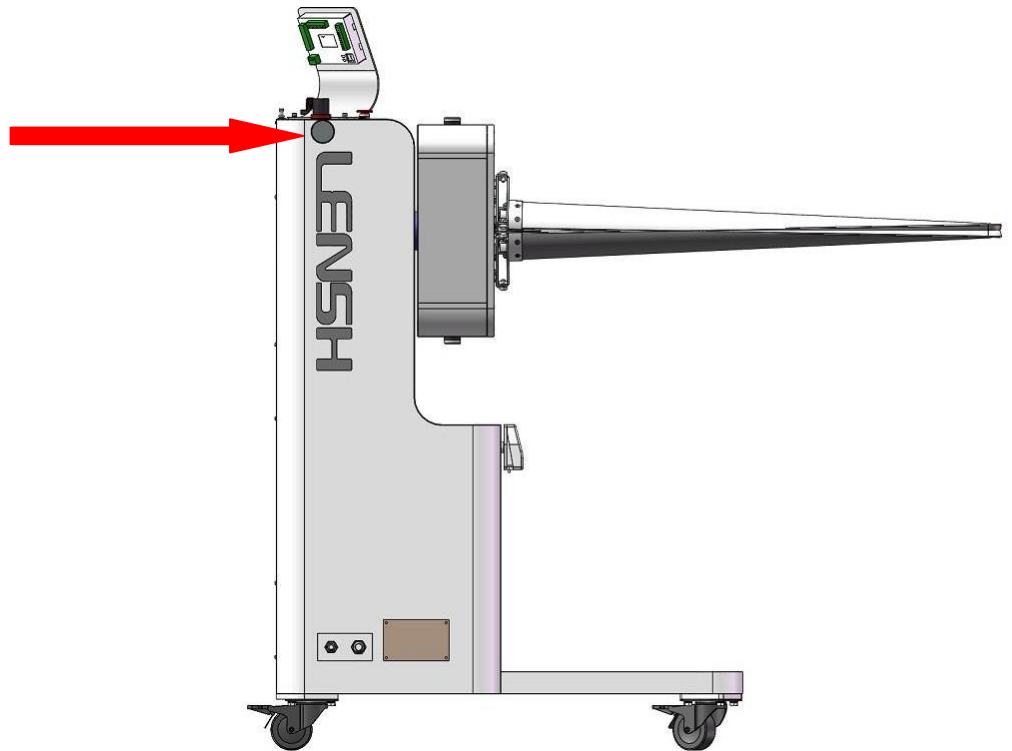
(2) Click on the right side of the home page to select the size (the position indicated by the red arrow)



(3) Select the appropriate size (there are Asian size and European size options indicated by the green arrow in the figure above)



(4) Air pressure adjustment to 0.4MPa (first lift the rotating handle, clockwise pressure increases, counterclockwise pressure decreases)



(5) Click Reset (indicated by the red arrow below)



(6) Click Start (indicated by the red arrow below)



(7) After putting on the pants, step on the foot once, the machine expands, turns on the light and rotates





(8) When 270° rotation is complete, step on one foot, expand and retract, and then take off the pants



(9) Shutdown operation (after the work is completed, you can directly turn off the power supply)



4. Touch screen operation

(1) Startup screen



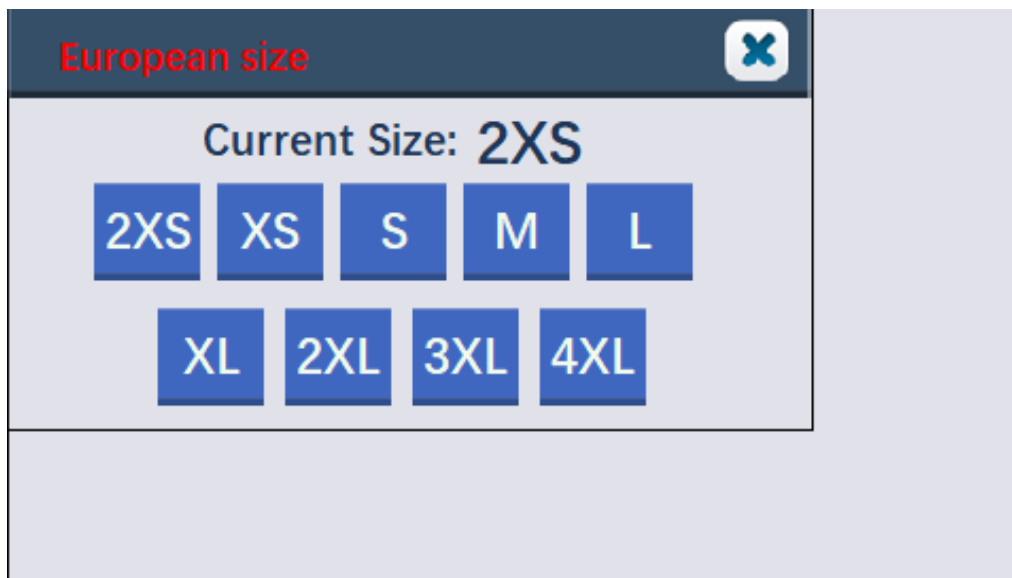
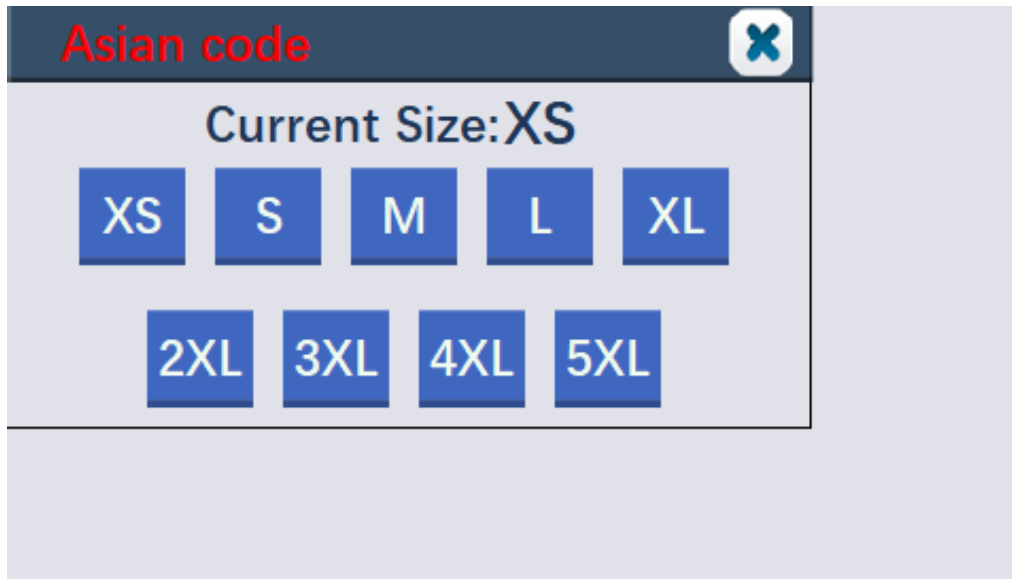
After turning on the power switch of the machine, the touch screen will enter the startup screen within 3 seconds. You can choose Chinese or English mode. After selecting the language mode, click the picture of the device to switch to the main screen.

(2) Main interface



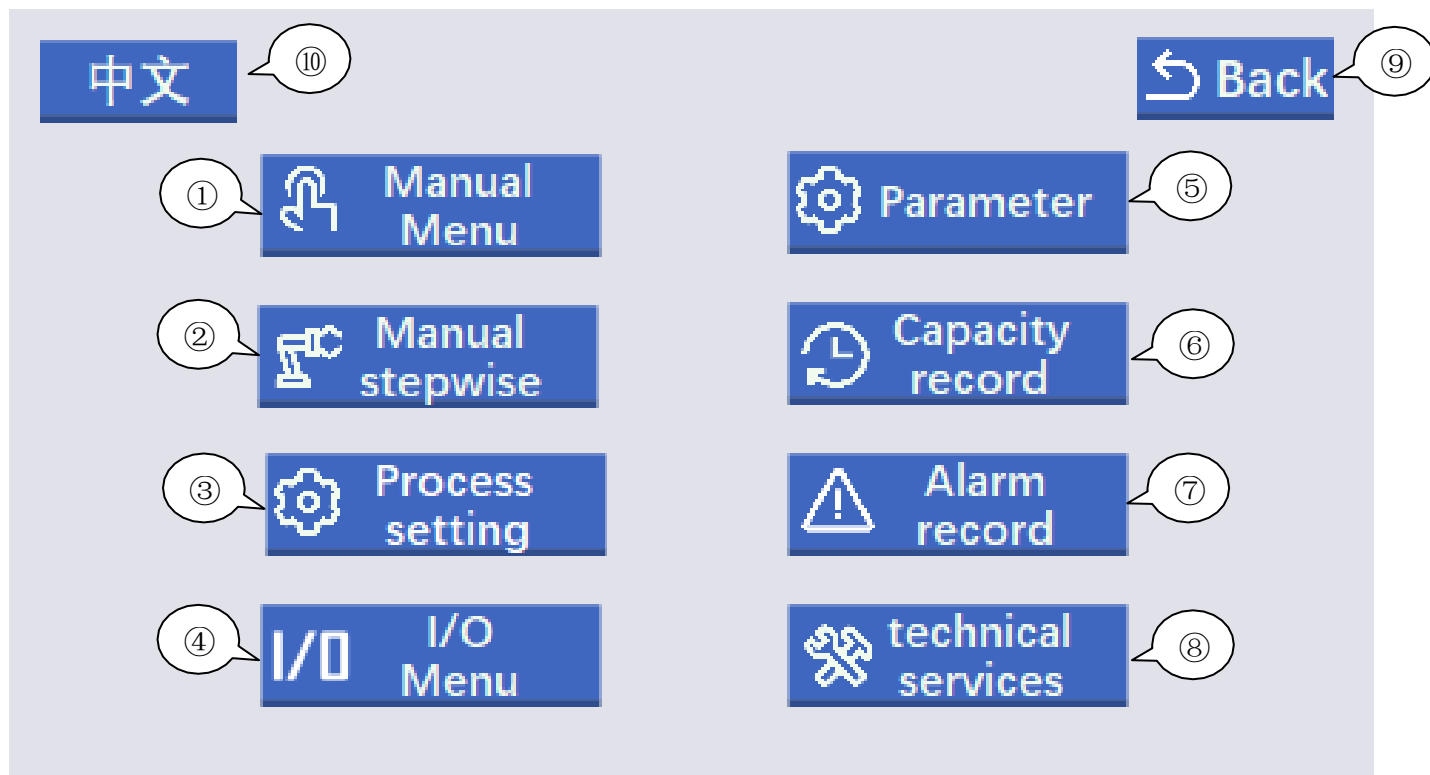
- ①Start: Press this key before the machine can run normally
- ②Reset: Restore the machine to the startup state
- ③Stop: Press this key to stop the machine after completing the current operation
- ④ Function screen: Enter the function operation interface
- ⑤ Current production capacity: enter the production capacity picture
- ⑥ Code change (sub-code) : You can choose Asian code and European code
- ⑦A station: you can choose A station and B station
- ⑧ Alarm bar display: machine abnormal alarm are displayed in this position

(3) Code change interface



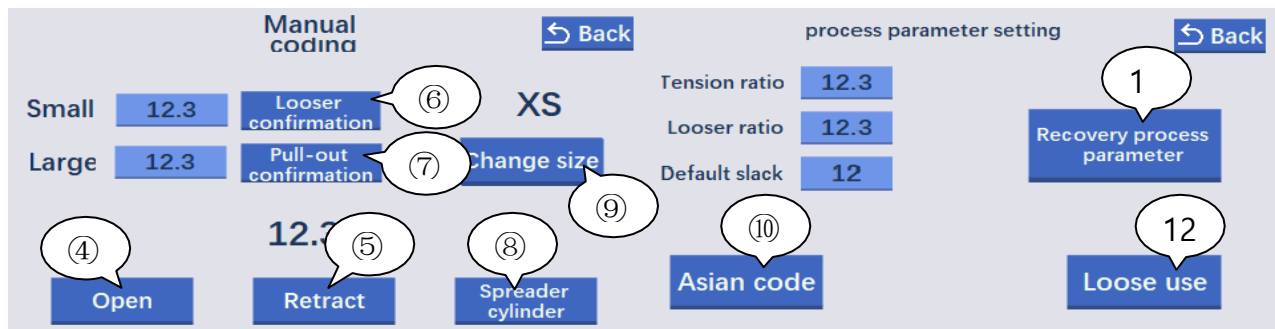
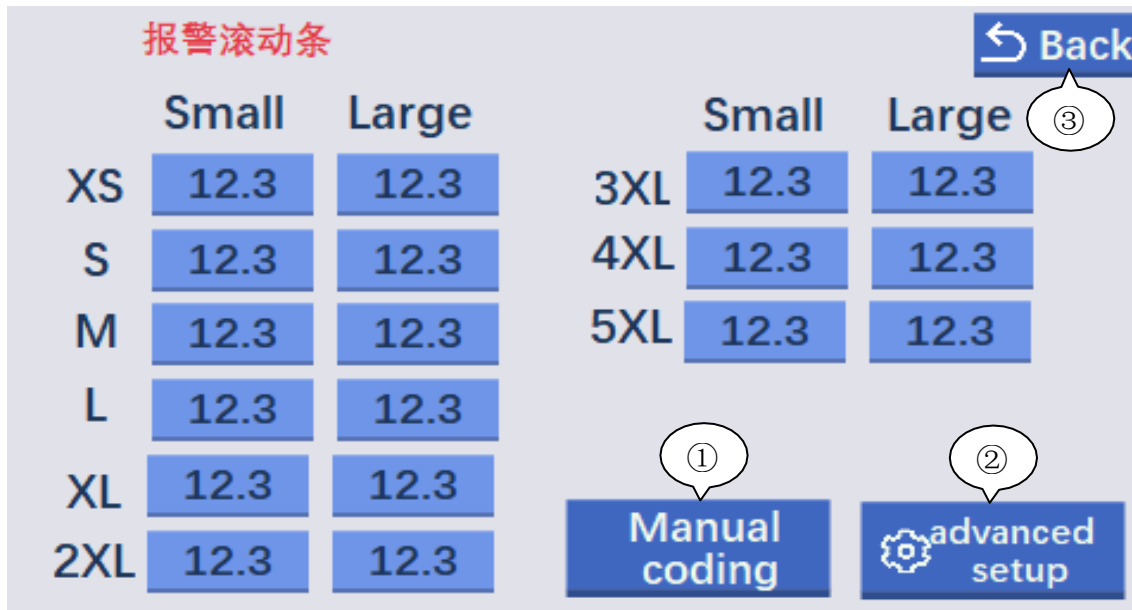
NO.	name	function	NO.	name	function
1	XS	Click this key to switch to size XS	6	2XL	Click this key to switch to size 2XL
2	S	Click this key to switch to size S	7	3XL	Click this key to switch to size 3XL
3	M	Click this key to switch to size M	8	4XL	Click this key to switch to size 4XL
4	L	Click this key to switch to size L	9	5XL	Click this key to switch to size 5XL
5	XL	Click this key to switch to size XL	10	return	Click this key to return to the main interface

(4) Functional interface



NO.	name	function	NO.	name	function
1	Manual screen	Click this key to enter the one-step interface	5	System parameter	Click this key to enter the system parameter interface
2	Stepwise action	Click this key to enter the step by step interface	6	Capacity count	Click this key to enter the production capacity interface
3	Parameter setting	Click this key to enter the parameter setting interface	7	Alarm record	Click this key to enter the alarm interface
4	I/O screen	Click this key to enter the manual I/O screen	8	Technical service	Click this key to enter the technical service interface
9	return	Click this key to return to the main interface	10	Chinese	Switch between Chinese and English

(5) Process setting



NO.	name	function	NO.	name	function
1	Manual coding	Click this key to enter the manual code setting interface	8	Spreader cylinder	Click this key to support the cylinder movement laterally
2	Advanced Settings	Click this key to enter the advanced Settings screen	9	Code change (Asia)	There is a choice of Asian and European codes
3	return	Click this key to enter the upper-layer screen	10	subcode	Click this key to switch to Euro code
4	open	Click this button to expand the lamp leg	11		
5	retract	Click this button to retract the lamp leg	12	Loose use	Preset looser options with sustained shrinkage to a minimum
6	Looser confirmation	Click this key to enter the value displayed at the current location	13	Restore Settings	Restore factory Settings (delete new data records)
7	Pull-out confirmation	Click this key to enter the value displayed at the current location			

(6) Parameter setting

Parameter setting

↶ Back

Expansion rate 12PR

Rotation speed (check) 12PR

Rotation speed (return to zero) 12PR

Initial Angle (A) 12PR

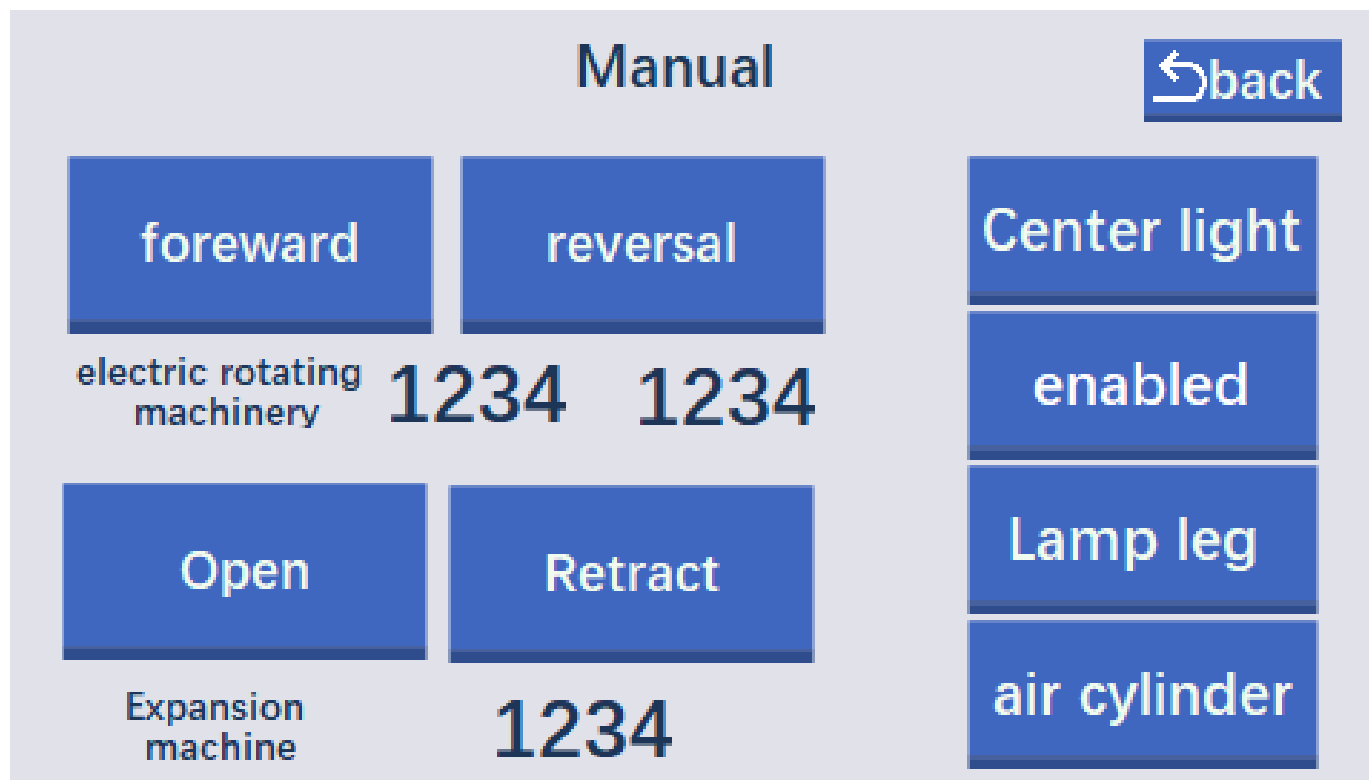
Initial Angle (B) 12PR

singleton
Light detection

Center light
Lamp leg
Cylinder use

NO	name	function
(1)	Expansion rate	How fast the leg of the lamp expands outward
(2)	Rotation speed (check)	The speed at which a rotatable component rotates during inspection
(3)	Rotation speed (find original)	How fast or slow the rotatable component rotates when finding the origin sensor
(4)	Initial Angle A	A The Angle selection of working standby position
(5)	Initial Angle B	Choose the Angle of working standby position at station B
(6)	Single piece mode	You start working and you don't stop halfway through because of interference Stop until individual inspection is completed
(7)	On off	Turn on the light and turn off the light after turning on the light for a turn
(8)	Light 1 on	Turn on the front light separately
(9)	Light 2 on	The rear lights are turned on separately
(10)	Cylinder use	Whether the diagonal supported cylinder is used

(7) Manual interface



NO	name	function
(1)	Foreward	Click this key to control the positive rotation of the rotating motor
(2)	reversal	Click this key to control the rotation motor reversal
(3)	open	Click this key to control lamp leg expansion
(4)	retract	Click this key to retract the lamp leg
(5)	Center light	Click this key to control the center light
(6)	Lamp Leg 2	Click this key to turn on the front of the light
(7)	enable	Click this key to enter the manual inspection mode (free rotation)
(8)	Air cylinder	Click this button cylinder support movement (oblique support)
(9)	Back	Click this key to return to the previous interface

(8) I/O screen

I/O Menu

↶ Back

☐ X0 Encoder A

☐ X1 Encoder B

☐ X2 Enable button

☐ X3 Origin of rotation

☐ X4 button scram

☐ X5 foot pedal

☐ X6 Extended origin

☐ X7 Rotary motor alarm

☐ Y0 rotating machinery PUL

☐ Y1 Expansion machine PUL

☐ Y2 rotating machinery DIR

☐ Y3 Expansion machine DIR

☐ Y4 Lamp leg

☐ Y5 Expansion cylinder

☐ Y6 Center light

☐ Y7 rotating motor is enabled

No.	name	function
1	Back	Click this key to return to the function screen

This interface is the PLC input signal monitoring screen. If the indicator light is on, the signal is sensed at this point; if the indicator light is off, the signal is not sensed at this point.

(9) Manual step interface



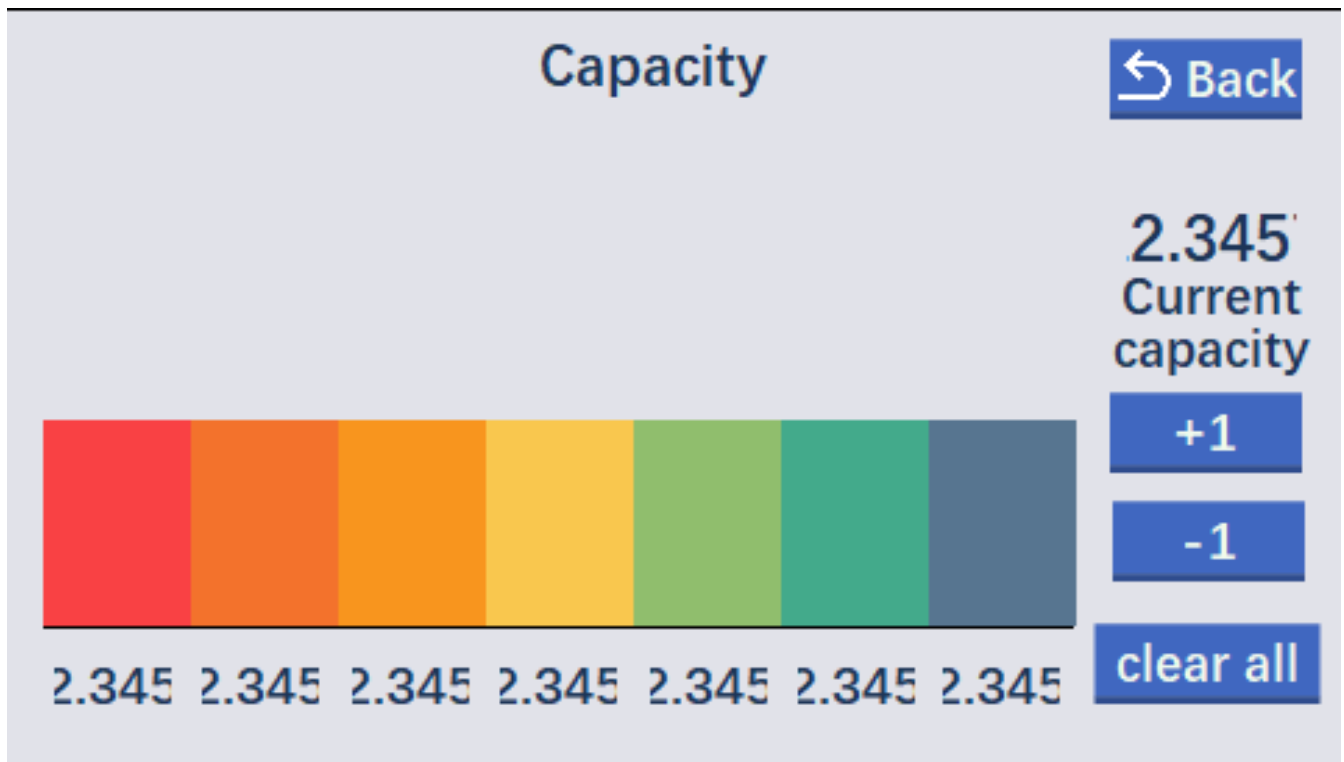
No.	name	function
1	The next step	Click this key in the step loop (each time you press the next step) to step through the next step in sequence
2	reset	Click this key to reset the initial state
3	Back	Click this key to return to the function interface

(10) Alarm recording interface

Alarm record					
Date	Time	Object name	Alarm value	Alarm description	
2023/05/27	09:36:23	报警样例3	40.000	报警信息3	
2023/05/27	09:36:23	报警样例2	30.000	报警信息2	
2023/05/27	09:36:23	报警样例1	20.000	报警信息1	
2023/05/27	09:36:23	报警样例0	10.000	报警信息0	
					

Alarm content: This interface is the alarm display archive interface

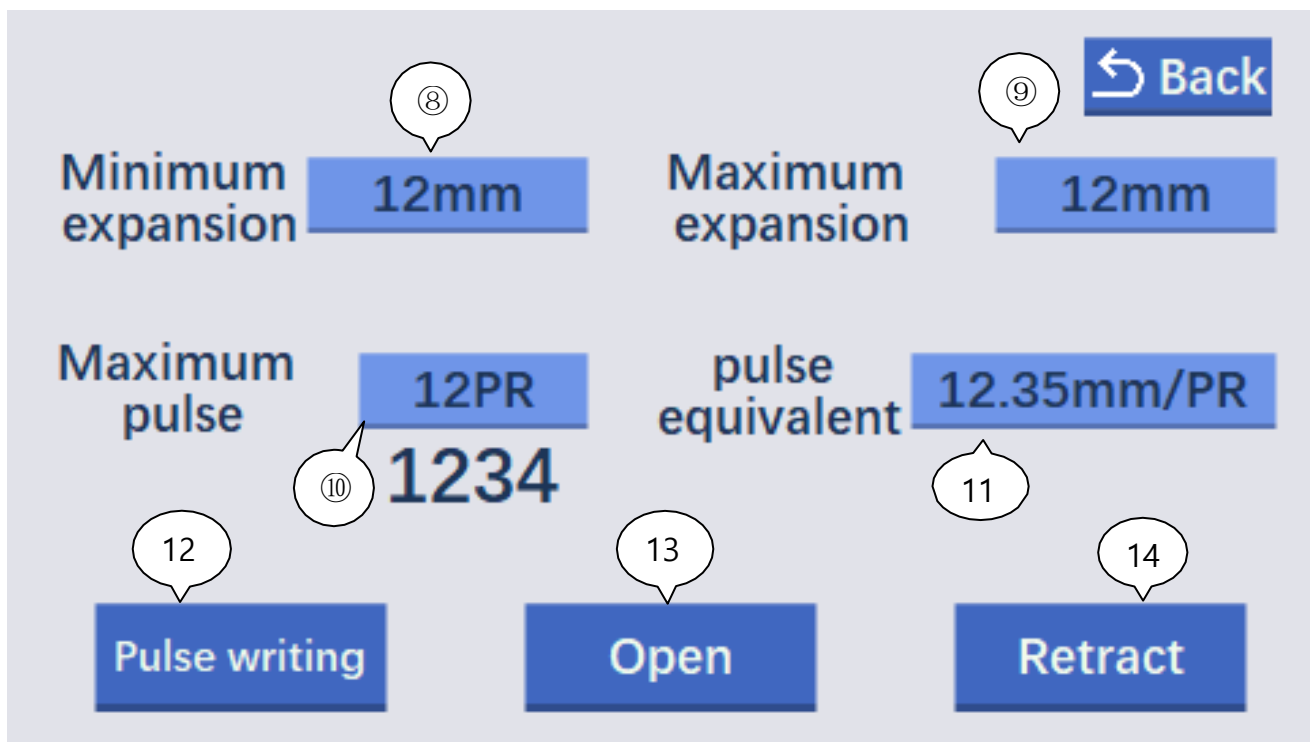
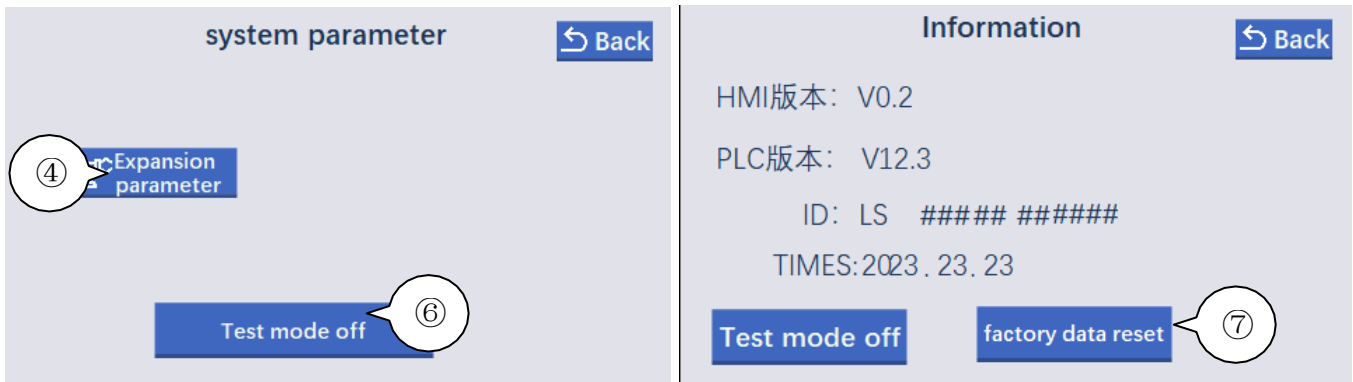
(11) Productivity counting interface



Capacity count allows you to view daily capacity

No.	name	function
1	Capacity +1	Click this button for daily production capacity +1
2	productivity-1	Click this key, daily production capacity -1
3	clear	Long press this key to clear the capacity of the day
8	return	Click this key to return to the function interface

(12) Technical service interface



NO.	name	function	NO.	name	function
1	System parameter	Click this key to enter the system parameters screen	8	Minimum expansion	The size of the value depends on the minimum limit of expansion
2	Device information	Click this key to enter the device information screen	9	Maximum expansion	The size of the value depends on the upper limit of the expansion
3	back	Click this key to enter the upper-layer screen	10	Maximum pulse	The size of the value determines the upper limit of rotation
4	Expansion parameter	Click this key to enter the expansion parameter interface	11	Pulse equivalent	Displays the current pulse value
5			12	Pulse writing	Simulation expansion to find the appropriate size after input value
6	Test mode	Click this key to enter the test mode (empty operation of the whole machine)	13	open	Control leg expansion (with pulse input)
7	factory data reset	Click this key to reset the default value before factory setting	14	retract	Control leg retracts (with pulse input)

5. **Matters needing attention**

- (1)  Do not open the maintenance cover when the machine is in normal operation, so as to avoid personal accidents;
- (2) No trained personnel shall operate the equipment
- (3)  In order to prevent damage to the electrical parts of the machine, stop the operation and unplug the power source when it thunders to ensure safety;

-
- (4) When putting down the maintenance cover plate, please use your hand to support it, so as not to hurt your fingers or damage the paint;

- (5) Please read this manual carefully before specific operation;



- (6) In order to prevent leakage accidents, please be sure to ground;



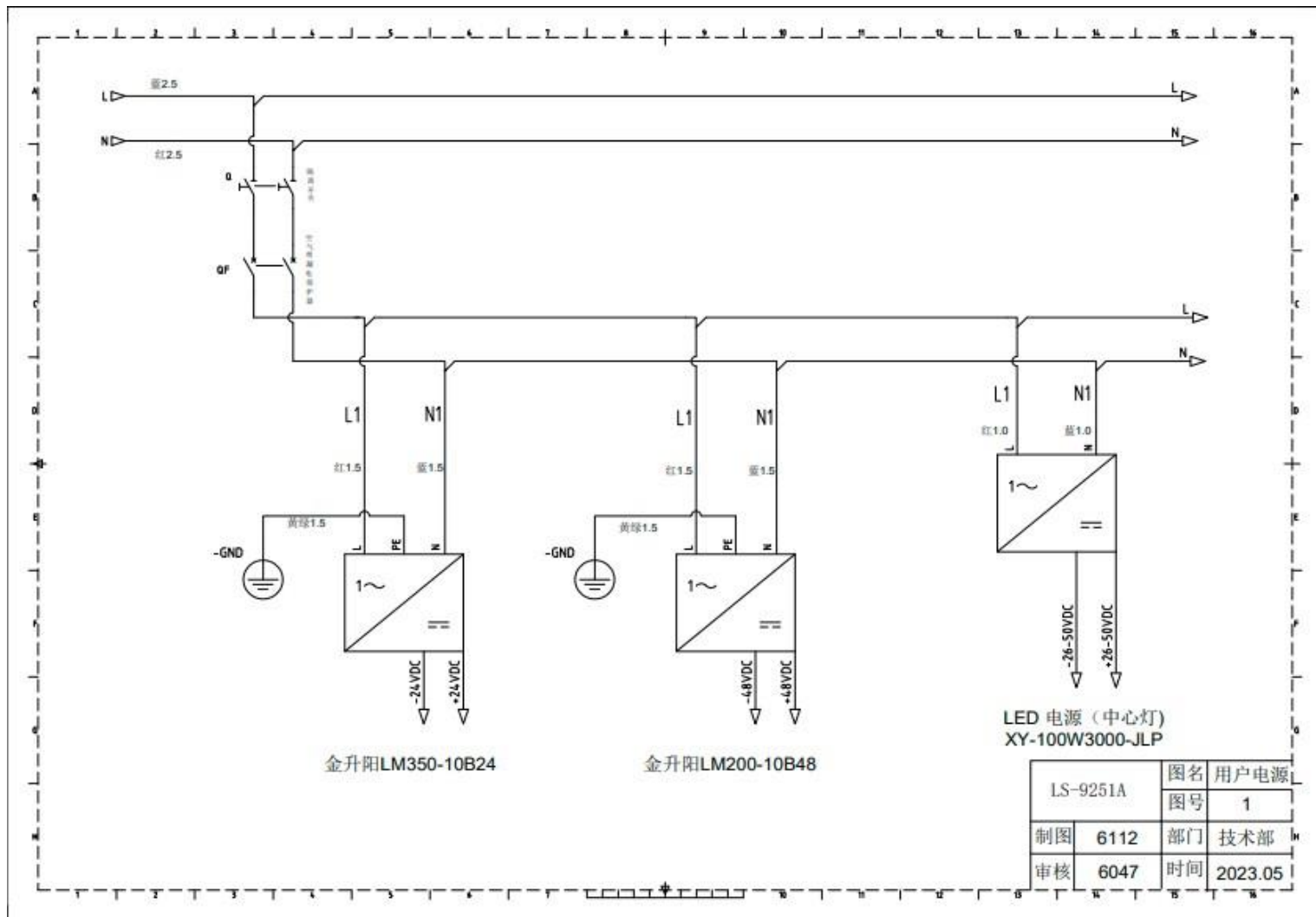
- (7) In order to prevent electric shock accident, do not open the electric control box for any operation under the power state;

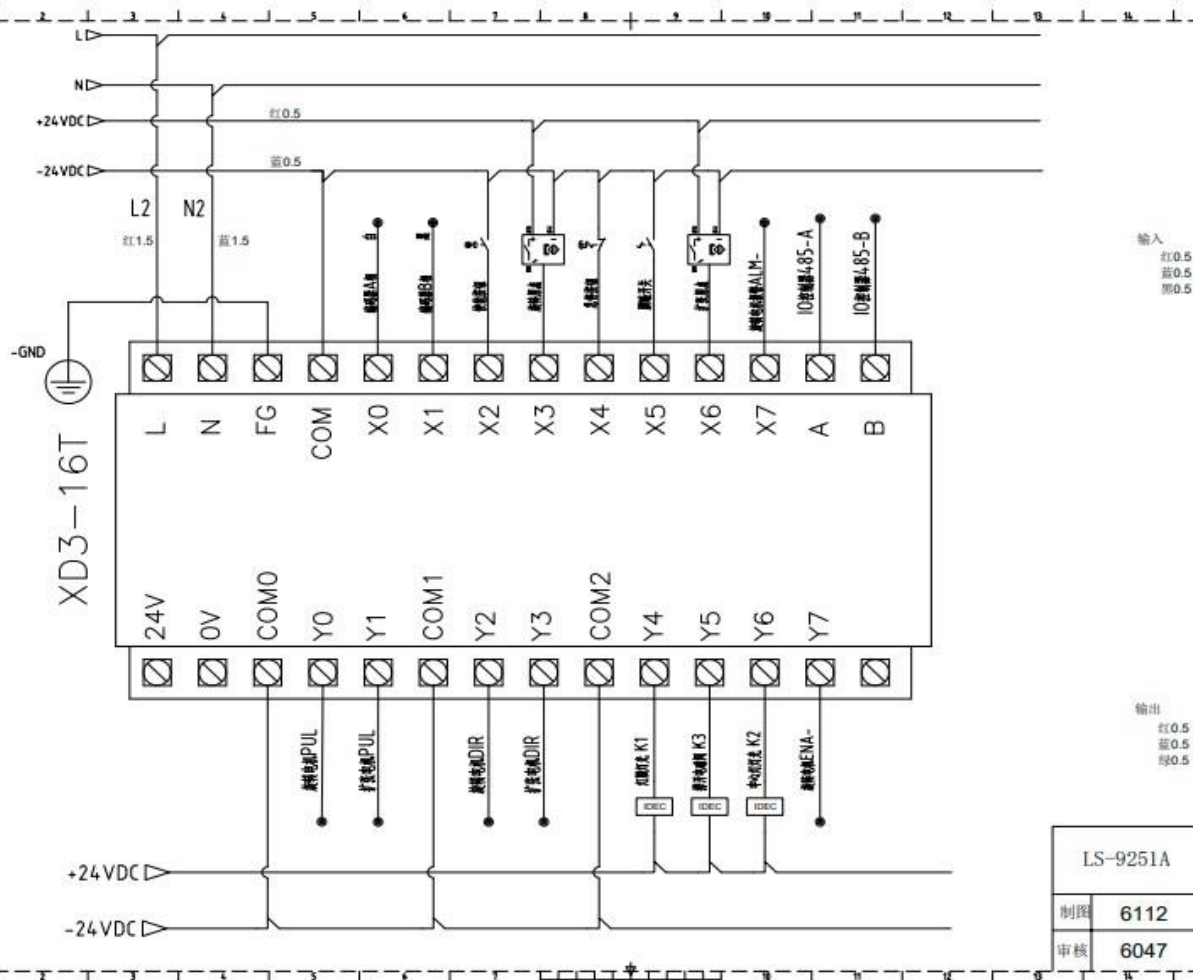
- (8) In order to prevent personal accidents caused by mechanical operation, the equipment will stop automatically when the maintenance cover is opened.



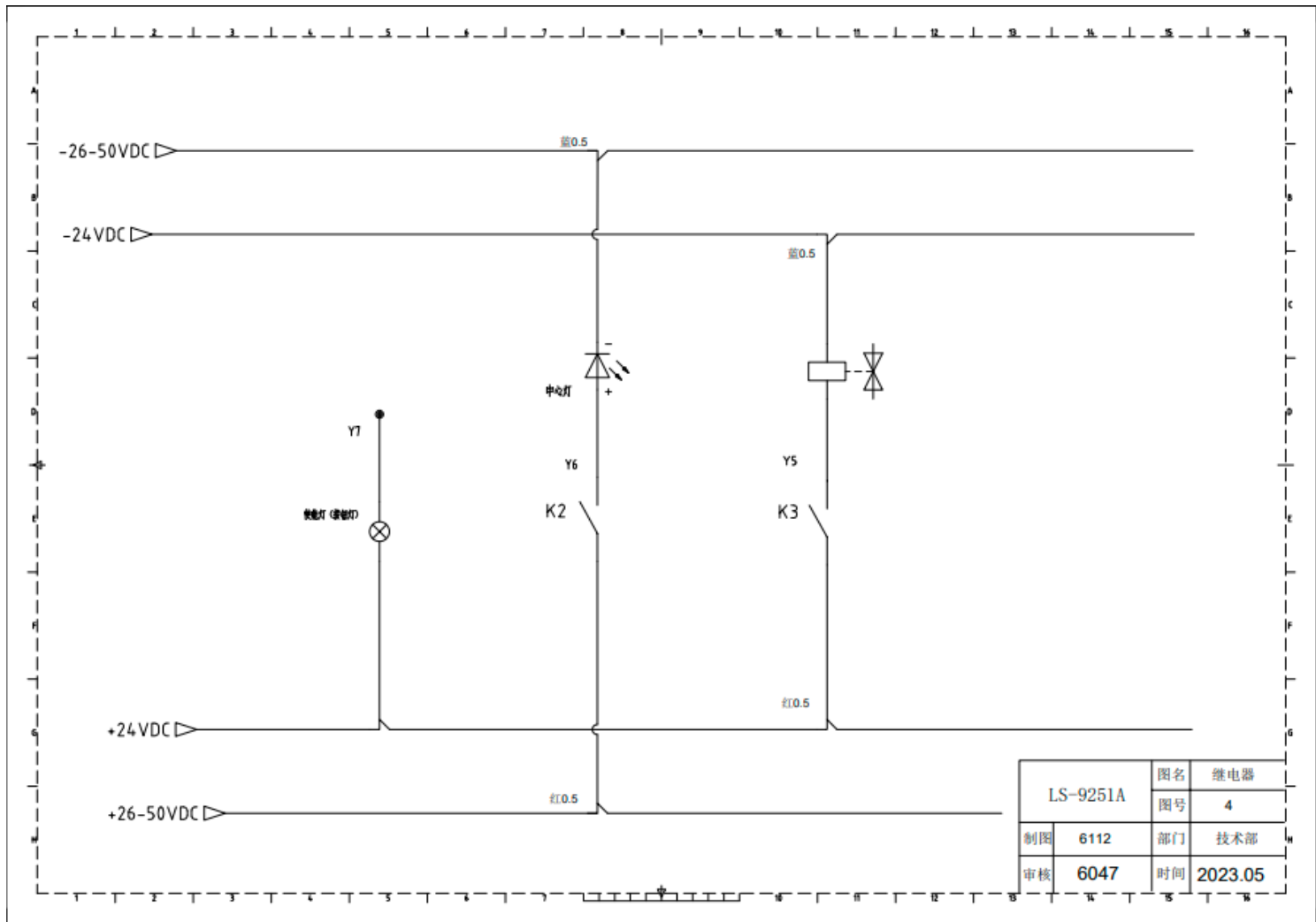
Note: Special cylinder oil must be used for oil products, not sewing machine oil.

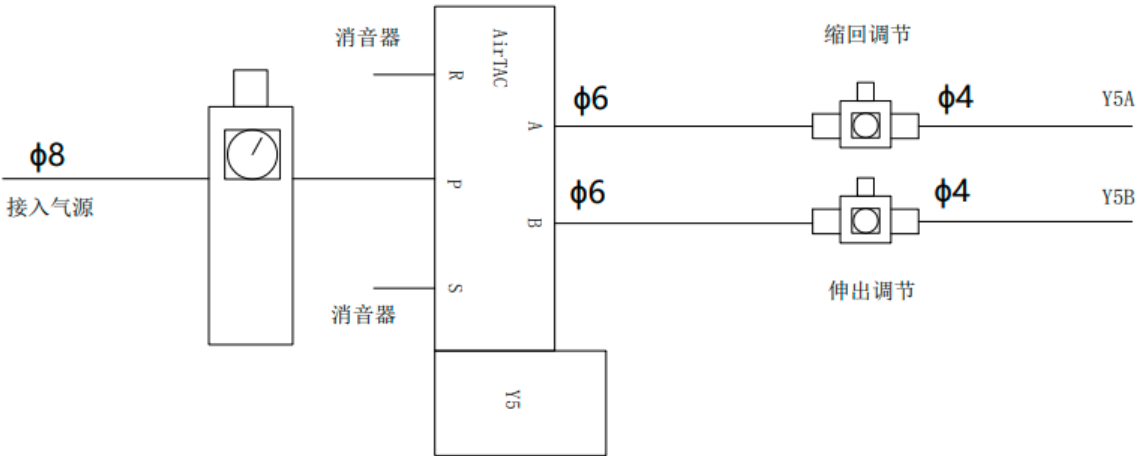
6. Circuit diagram





LS-9251A		图名	PLC
		图号	2
制图	6112	部门	技术部
审核	6047	时间	2023.05





LS-9251A		图名	气路
		图号	6
制图	6112	部门	技术部
审核	6047	时间	2023.05