

, 缝纫机系列

使用说明书

Sewing machine series

Operation Manual

WS-8700/DDL-9000B

高速自动贴袋缝纫机

High-speed automatic sewing machine for pocket attaching



上海威士机械有限公司

SHANGHAI WEISHI MACHINERY CO.,LTD.

Preface

This manual is written for technical service staffs and operating personnel.

In the Operation Manual for sewing machine preservers in the garment factory and the sewing operators, we have made a thorough explanation on how to use this sewing machine. So in this Service Manual, we will make some explanations on particular and relevant functions, on the adjustment methods for compiling, on the phenomenon resulted from changes in value and other various functions.

In addition to this manual, please refer to other Operation Manuals and parts list when preserving and repairing this machine.

For a safe adjustment operation.

Before adjusting the sewing machine, the automatic machine assemble and other and the appendant devices (hereinafter called the machine), the operations.

operator should read the machine's "Important Safety Instructions" carefully and understand it fully.

Adjustments: Parts replacement, removal, repair, assemble and other operations.

The "Important Safety Instructions" in this Service Manual explains some items which are not included in the machinery specification you bought.

Besides, in order to make you fully understand this Service Manual and the warning signs stickup in the machine body, the warning signs are used separately according to the following descriptions.

You should fully understand and consciously comply with its contents.

(1) Descriptions about the dangerous level

<u></u>	When operating and maintaining the machine, the dangerous parts which
∠ ∴ Danger	could cause death or serious injury by the third person's misoperation
	and the privies couldn't avoid.
<u> </u>	The potential parts which could cause death or serious injury by the
🚣 Warning	third person's misoperation and the privies couldn't avoid when
	operating and maintaining the machine.
	The parts which could cause moderate or minor injury by the third
☐ ∠ : Caution	person's misoperation and the privies couldn't avoid when operating
	and maintaining the machine.

(2) Descriptions about the indications of the warning patterns

		Moving Parts: be cautious of the industrial accident.			Belt Drive: be cautious of the industrial accident.
Warning patterns	A	High Voltage Parts: be cautious of electric shock.			Indicate the correct direction of rotation
		High Temperature Parts: be cautious of scalding accident.	Indication Sign	=	Indicate the earth wire that should be earthed.

Important Safety Instructions

Accident: Refers to the physical and property damage.

Cut off the power: Refers to turn off the power switch and pull out the power plug from the socket.



Danger

To prevent the electric shock, when it is necessary to open the electrical cabinet please cut off the power first and then open the electrical cabinet after at least 5 minutes.



Basic

- 1. To prevent human injury, please read and understand this Service Manual before operating. Besides, in order to use this Service Manual easily at any time, please keep it properly.
- 2 To prevent accidents caused by accidental start, please cut off the power before making any adjustment. When it has to operate with the power on, please do not step on the pedal or press the start button. When leaving the machine, it is necessary to cut off the power.
- 3 To prevent human injury, please verify whether the connecting terminal, cable and other thins are damaged, loosen and so on after making adjustments.

Education 5 1

1. To prevent human injury when adjusting the operation, the person who is responsible should be taught about the latest information and safety knowledge, and be trained to operate according to this Service Manual and the Operation Manual.

Mechanical

- 1. To prevent the accidents caused by misadjustments, the adjustment should be made according to this Service Manual and the Operation Manual by the maintenance technician who is familiar with mechanistic relations and has been trained about the safety knowledge.
- 2. Please use the genuine components made by our company when replacing components. Our company shall not bear the responsibility for the incidents caused by inappropriate adjustment and for the using of the components which are not made by our company. If the adjustment can't be made within the range of indication, you should terminate the repairing work immediately and authorize the technician in our company or in the agency shop to solve.
- 3. To prevent human injury, please verify whether the screws and nuts are loose after making adjustment.

- 4. To prevent human injury, when unexpected things happen during adjustment or machine still can't work normally after adjustment, please stop operating immediately.
- 5. To prevent human injury, when adjusting, the safety devices removed or damaged should be installed at its original place and verify whether they are normal and valid.
- To prevent human injury, the warning signs stickup in the machine should be able to see clearly at any time. When they are desquarated or contaminated, you should replace a new one immediately.

Electrical

- To prevent accidents and electric shock, please authorize the specified person with electrical knowledge or the technician in our company or in the agency shop to make the adjustment.
- To prevent human injury, if the fuse blows out, please cut off the power, find out the cause, eliminate the trouble, and then replace a new fuse with the same capacity (specification).
- 3. To prevent human injury, please verify whether the connecting terminal, cable and other things are damaged, loose and shed after making adjustments.

Air-pressure

- To prevent accidents caused by accidental start, when using air cylinder and other air-pressure components to make adjustment, please cut off the air supply and drain the internal compressed air first.
- 2. To prevent accidents caused by faulty action, please verify whether there is water in cylinder and air tube.

Mechanical adjustment in clutch motor

After cutting off the power, the clutch motor will continue to spin because of its inertia.
 To prevent human injury, please start to adjust after verifying the motor has stopped.

Mechanical application and transformation

- To prevent human injury, do not make any adjustment or transformation which is not complied
 with the specifications of the machine. Our company shall not bear any responsibility for
 the accidents caused by such adjustment or transformation.
- 2. To prevent human injury, do not operate exceeding the machine's using range or the usage specified in this Service Manual and the Operation Manual. Our company shall not bear any responsibility for the accident caused by such operation.

Precautions in various stages

Machinery Part



√! Caution

Move

- 1. To prevent human injury, please use two or more than two persons to lift this machine and use a moped to move it.
- 2 To prevent human injury, please adopt sufficient safety precautions to prevent accidental drop and turnover when lifting or moving.
- 3 We have made a thorough explanation about the installation in the Operation Manual, please read carefully and fully understand before operating.

Component Replacement

- 1. To prevent human injury, please replace the component under the direction of this Service Manual and the Operation Manual.
- 2 To prevent occupational injury and human injury, please operate after cutting off the power.
- 3 To prevent human injury, please operate after the machine has been installed steadily. Meanwhile, it is necessary to choose appropriate tools.
- 4 To prevent human injury, please verify whether the screws and nuts are loose, whether they have unexpected contact with other components after finishing operation.
- 5 Please use the genuine components made by our company to replace.
 - Our company shall not bear any responsibility for the accidents caused by the using of the components which are not by our company.
 - If you couldn't replace the components normally under the direction, please stop repairing and contact with the technicians in our company or the agency shop.

Adjustmen

- 1. To prevent human injury, please make adjustments within the range indicated in this Service Manual and the Operation Manual.
- 2 To prevent human injury, please operate after the machine has been installed steadily. Meanwhile, it is necessary to choose appropriate tools.
- 3 To prevent human injury, please verify whether the screws and the nuts are loose, whether they have unexpected contact with other components after finish operating.
- 4 To prevent human injury, when it has to operate with the power on, please be careful enough and do not press the button accidentally.
- 5 To prevent human injury and being involved in the machine, please be careful enough and do not let your hair or clothes touch the transmission part when operating sewing test

Disassemble, Assemble

- 1. To prevent human injury, please make adjustments within the range indicated in this Service Manual and the Operation Manual.
- 2. To prevent human injury, please operate after the machine has been installed steadily
- 3. To prevent human injury, please verify whether there is unexpected contact between components after finishing assemble.
- 4. To prevent human injury, when solidifying the screw and the nut, if there is specified torsional moment, please solidify in coincidence with the requirement; if there is no such requirement, please solidify in an appropriate torsional moment.
- 5. To prevent human injury, please verify whether the direction of rotation is correct during trial running.
- 6. To prevent human injury during trial running, please be careful enough and do not let your hair or clothes touch the transmission part.

Precautions in various stages

Electricity Part



!\ Caution

Move

- 1. To prevent human injury, please use two or more than two persons to lift this machine and use a moped to move it.
- 2. To prevent human injury, please adopt sufficient safety precautions to prevent accidental drop and turnover when lifting or moving.
- 3. We have made a thorough explanation about the installation in the Operation Manual, please read carefully and understand fully before operating.

Component Replacement

- 1. To prevent accidents and electric shock, please authorize the technicians with electrical knowledge to operate.
- 2. To prevent the accidents and electric shock, when it is necessary to open the electrical cabinet, please cut off the power first and then open the electrical cabinet after at least 5 minutes. Do not operate when your hands are wet.
- 3. To prevent human injury, please replace the components under the directions in this Service Manual and the Operation Manual.
- 4. To prevent human injury, please operate after the machine has been installed steadily. Meanwhile, it is necessary to choose appropriate tools.
- 5. To prevent human injury, please verify whether this component has unexpected contact with other components after replacing and verify whether the connecting terminal and the plug are poor contact, whether the screws and nuts are loose.
- 6. To prevent human injury, please verify whether the connecting terminal, cable head are damaged, shed or loose after operating.

According to the request of security, there are some floating polyvinyl chloride tube, insulating tape and other insulating materials, and the internal wiring adopt the circuitous way in order to keep away from the high-tension line. And all of them should be repristinated after operating.

- 7. Please use the genuine components made by our company to replace.
- Our company shall not bear any responsibility for the accidents caused by the using of the components which are not made by our company.
- If you couldn't replace the components normally under the direction, please stop repairing and contact with the technicians in our company or in the agency shop.
- 8. To prevent human injury, if the fuse blows out, please cut off the power, find out the cause, eliminate the trouble, and then replace a new fuse with the same capacity (specification).

Adjustmen

- 1. To prevent accidents and electric shock, please authorize the technicians with electrical knowledge to operate.
- 2. To prevent the accidents and electric shock, when it is necessary to open the electrical cabinet, please cut off the power first and then open the electrical cabinet after at least 5 minutes. Do not operate when your hands are wet.
- 3. To prevent human injury, please make adjustments on the adjustable components (variable inductance, potentiometer, variable capacity) according to the indications in this Service Manual and the Operation Manual only
- 4. To prevent human injury, please operate after the machine has been installed steadily. Meanwhile, it is necessary to choose appropriate tools.
- 5. To prevent human injury, please verify whether the screws and the nuts are loose, whether they have unexpected contact with other components.
- 6. To prevent human injury, please verify whether the connecting terminal, cable head are damaged, shed or loose after operating.
- 7. To prevent human from injury and being involved in the machine, please be careful enough and do not let your hair or clothes touch the transmission part when operating sewing test.

Disassemble, Assemble

- 1. To prevent human injury, please make adjustments within the range indicated in this Service Manual and the Operation Manual.
- 2. To prevent the accidents and electric shock, when it is necessary to open the electrical cabinet, please cut off the power first and then open the electrical cabinet after at least 5 minutes. Do not operate when your hands are wet.
- 3. To prevent human injury, please replace the components under the directions in this Service Manual and the Operation Manual.
- 4. To prevent human from injury, please operate after the machine has been installed steadily. Meanwhile, it is necessary to choose appropriate tools.
- 5. To prevent human injury, when solidifying the screw and the nut, if there is specified torsional moment, please solidify in coincidence with the requirement; if there is no such requirement, please solidify in an appropriate torsional moment.
- 6. To prevent human injury, please verify whether the screws and nuts are loose, whether they have unexpected contact with other components.
- 7. To prevent human injury, please verify whether the connecting terminal, cable head are damaged, shed or loose after operating.

According to the request of security, there are some floating polyvinyl chloride tube, insulating tape and other insulating materials, and the internal wiring adopt the circuitous way in order to keep away from the high-tension line. And all of them should be repristinated after operating.

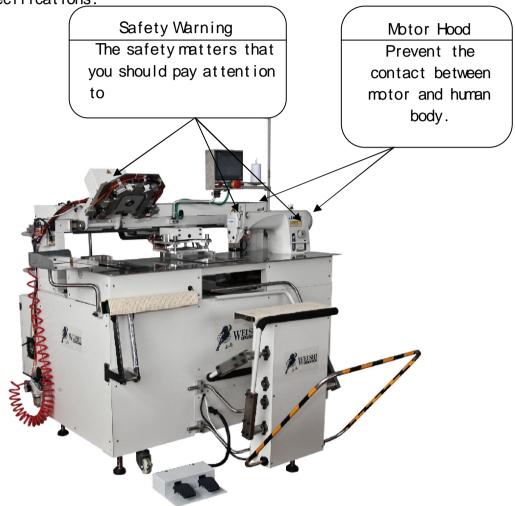
- 8. To prevent human injury, please verify whether the direction of rotation is correct during trial running.
- 9. To prevent human from injury during trial running, please be careful enough and do not let your hair or clothes touch the transmission part.

Important Safety Instructions about WS-8700

Danger	 To prevent electric shock, during the power supply importing period, do not touch the components in the electrical cabinet when the motor electrical cabinet is open. After changing pattern, please verify the needle point. Once the pattern exceeds the presser foot, the needle would run into the presser foot and snap.
Caution	 When power is on, but no display on the operation screen, please cut off the power and verify the supply voltage and the power source specification. To prevent the accident caused by the accidental start, before pressing the start button please verify there is no barriers underneath when coiling. When the power button is off, the setout button is on, and the presser foot button is on, do not put your fingers beneath the presser foot, because the presser foot will automatically fall down.

Safety Device

The machineries and safety devices recorded here are made under the domestic specifications; the devices may be different according to different sale places and different specifications.





Danger

The book, in some places have been omitted the eye shield, therefore pre-informed you that, in actual use, you should never remove the safety device!

Contents

0
٥
. 3
. 3
. 3
. 5
. 7
. 7
. 9
12
11
11
13
14
16
18
22

One. Specification

1, Basic Parameter

Ordinal	Project	Basic parameters
1	Maximum sewing speed (needle/min)	3000
2	Stitch length/mm	1o o "-"3o o
3	Cloth feeding mode """"""""""""""""""""""""""""""""""""	""""""" Tpvgto kwgpv Hggf
4	Sewing scope/mm	X=375 Y=150
5	Rated voltage/V	220
6	Operating air pressure/M	0.5'pq'rguu'\j cp'206
7	Air consumption/L/min	200
8	Dimension mm	1700L×1500W×1450H
9	Weight	400Kg

Maximum sewing speed can be used according to the drop speed of the sewing condition.

Two. Name of Operation Panel and Notes



Figure (I) Operation Panel

	Button/Display	Content
0	Reset Button	Servo returns to zero point and the machine enters into work state after this button being pressed.
2	Power ON	Main supply of the machine is on after this button being pressed.
8	Power OFF	Main supply of the machine is off after this button being pressed.
0	EM	The system will stop after emergency button being pressed, thereafter, press button for system restoration when emergency button is canceled.
6	Human-machin e Interface	Set sewing parameter and select machining graphics on human-machine interface.

Three. Operation and Function

1. Start-up screen

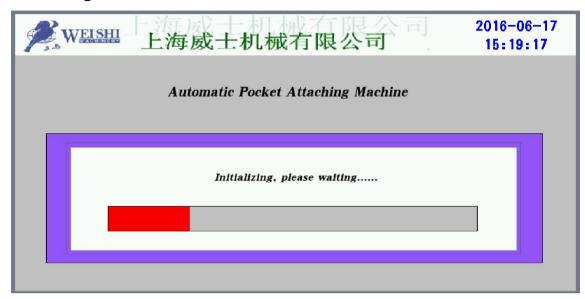


Figure (II) start-up screen

When the boot initialization is finished, the system will automatically enter the main screen, as shown in figure (two). Please do not operate the machine during this time, because the system is not ready state.

2. Operation and instructions on main interface

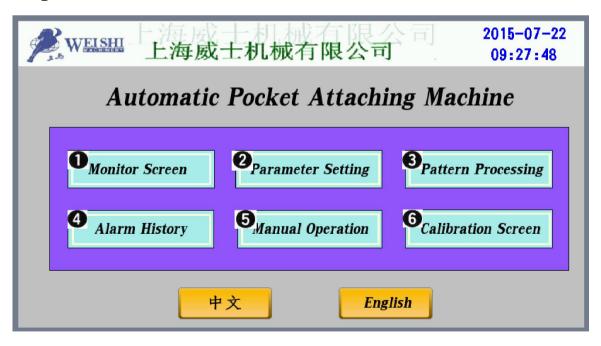


Figure (III) system main interface

	Button/Display	Content
0	Monitor screen	Press the button, the servo reverting machine enters working state.
2	Parameter Setting	Pressing the relevant button can carry out the operation of sewing set, parameter set, manual operation, sewing test, system test and alarm list respectively.
8	Pattern processing	Click this button to enter the graphics processing, to choose the wanted file and modify the stitch length. (with a security level 1 of the picture)
4	Alarm History	Press the button to find the recent alarm records.
6	Manual Operation	Press the button to enter manual screen, each axis can be pointed operated and tested on its condition. (with a security level 1 of the picture)
6	Calibration Screen	Press the calibration screen button to set the location of starting ,martial ,ending sewing and etc. (with a security level 1 of the picture). Non-professionals please do not to get into and modify parameters , otherwise the consequences.

3. Monitor Screen

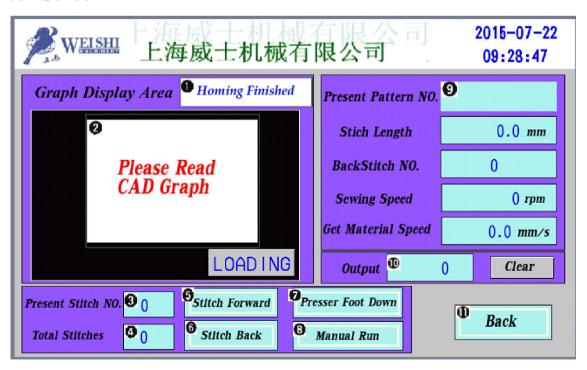


Figure (IV) Monitor Screen interface

Pleasure reset the system before operating the screen,or some parameters would be locked and not revised caused by security.

	Button/Display	Content
0	Reset state	Display the current system state.
0	Information of graphics processing	Display the current graphics processing.
3	processing needle number	Display the number of current processing needles
4	total needle number of sewing patten	Display the total needle number of current sewing patten
6	Stitch Forward	In the trial sewing mode and when thread breakage, press this button, the material presser will move to the next stitch position.
6	Stitch Back	In the trial sewing mode and when thread breakage, press this button, the material presser will move back to the former stitch position.
0	Press down the sewing foot presser	Press down the sewing foot presser to thread as it break. Pay attention to lift the foot presser after threading.
8	Single step/continuous processing mode	Press the button to choose single step or continuous processing mode. In single step mode, press start button to enter the next processing after the current step is over. In continuous processing mode, the system will perform all the processes.
9	Processing information	Display the current name of patten, start type, stitch length, strengthening needle number, sewing speed, getting material speed.
0	Output count and zero clearing	Display the current cumulative value , press zero clearing to count zero.
•	Back button	Press this button to sign out and return to system main interface

4.Parameter Screen

Press button on the system main screen [picture (III)], the system will switch to the screen as picture(V).

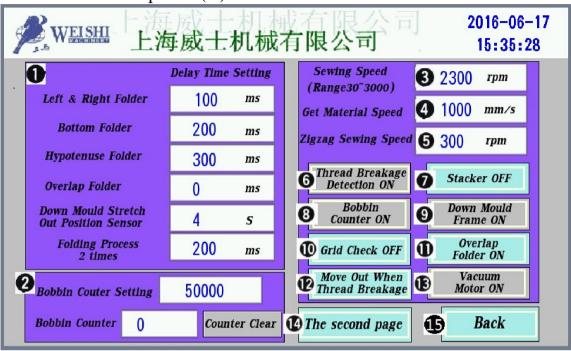


Figure (V) Parameter interface

	Button/Display	Content
	pocket folding delay	Set the delay time of cylinder action to get the step of folding
U	setting	bag.
2	Bottom Counter Setting	Setting the alarm of counting buttom shuttle, the system can compare the current counting with setting value. press zero clearing to count zero.
3	Speed of sewing	Set the current speed of sewing.
4	Speed of getting material	Set the current speed of getting material.
6	Zigzag Sewing Speed	Setting the zigzag sewing speed.
6	Thread breakage	Select whether to start the function of thread break or not.
0	Detection ON/OFF	Select whether to start the function of thread break of not.
0	Stacker ON/OFF	Select whether to start the function of receiving material or not.
8	Bobbin Counter	Salact whather to start the function of counting bottom shuttle
0	ON/OFF	Select whether to start the function of counting bottom shuttle.
0	Bottom Mould	Select whetherto use the bottom mould frame fuction.
0	ON/OFF	Select whetherto use the bottom mould frame faction.

•	Grid Check ON/OFF	Select whether to start the function of matching plaid.
•	Overlap Folder ON/OFF	Select whether to use the overlap folder cylinder.
P	Move out/continue when thread breakage	If you choose move out when thread breakage takes place, the machine will stop sewing, and move out to the waiting position, if you choose continue when thread breakage takes place, the machine will stop sewing, after you lead the thread, you can press the start button to continue.
B	Vacuum motor ON/OFF	Select whether to start the function of vacuum motor.
1	The second page	Press this button ,the system will switch to Parameter interface .
1	Back button	Press this button to sign out and return to system main interface

Press button on the system main screen [picture (V)], the system will switch to the screen as picture().

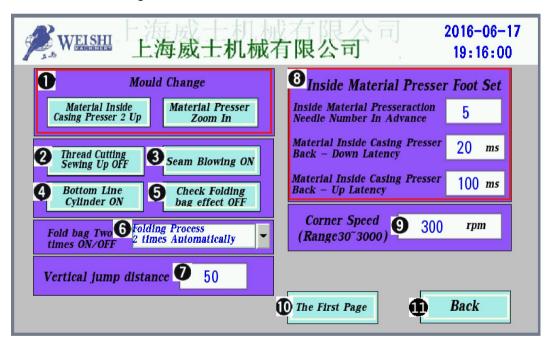


Figure () Parameter interface

	Button/Display	Content
Mould Change	Set Material Inside Casing Presser 2 up/ down,Set Material	
	Would Change	Presser Zoom In,In order to Install the mould.
-	Three di Costino	Select whether to enable the tangent axial direction after the
Sewing Up ON/	Thread Cutting	needle stop function, increase parking machine needle
	Sewing Up ON/OFF	height;For special thick fabrics suggested that choose this

		function.
8	Seam Blowing ON	Can choose whether to enable the cracks qigong, enable this function, after the first few stitches will keep blowing, make the line in the above.
4	Bottom Line Cylinder ON/OFF	Select whether to enable reinforcement gaskets.
6	Check Folding bag effect ON/OFF	Select whether to enable the folding bag action is completed, press the start button once again, to perform action; If confirmed confirmed before switch to the picking OFF key, in the folding bag action is complete, do not need to press the start button once again, can complete discharge.
6	Fold bag two times ON/OFF	Folding bag secondary mode choice: 1, under normal graphics program graph type automatic judgment, intelligent short open closed rounded corners mold two round insert cylinder;2, special die fillet should be state switch switch to the "rounded die fold bag 2 times";3, special bevel mould should be state switch switch to "bevel mould folding bag twice".
0	Vertical jump distance	Set double vertical jump distance, no word graphics the set value is too small will cause double outer ring after the seam face lines head did not pull out, the outside threats caused by line together, Suggestions according to the length of the line set the appropriate distance.
8	Inside Material Presser Foot Set	For double-line graphics should be set inside casing action pin number in advance; Inside the box back, up and down time.
9	Corner Speed	For from the gallery generated graphics, according to the parameters for the corner sewing speed control.
1	The First Page	Press this button to sign out and return to Parameter interface .
0	Back button	Press this button to sign out and return to system main interface

5.Pattern selection screen

Press button on the system main screen picture (III), the system will request passport input. Enter the correct password, then press the OK button to switch the screen as picture().

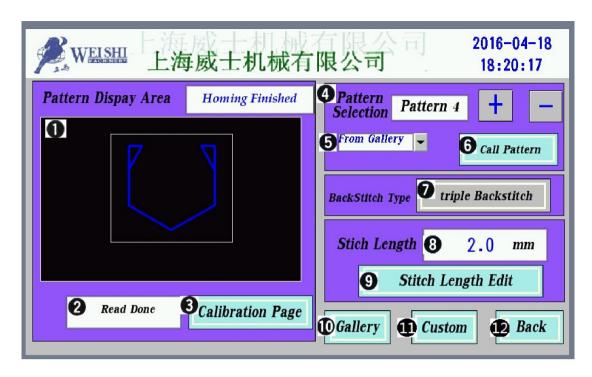


Figure () Pattern selection screen

	Button/Display	Content
0	Display area of graphics processing	Display the current graphics processing
0	Read Status	Display wether the reading file is over.
3	Calibration interface	Press this button to enter calibration screen. Pls pay attention to set the parameters cautiously after enter the calibration interface.
0	Mould selection	Select the processing graphics
6	From file	Select the route of the graphics processing file, which read from files and gallery. The system read the file from memory card. The storage name of graphics in CAD should be correct aforehand, or the it can't be read out. For reading from gallery, you should establish a graphical model in the gallery before.
6	Read file button	Press this button to read the current processing after selecting the right file.
0	Single /Triple Backstitch	Single reinforcement to fall back to a reinforcement way; More reinforcement reinforcement way for rewind needle twice.
8	Stitch length	Set the stitch length within the rang of 1-3mm.

9	Modify button of stitch length	Press this button to modify the current stitch length to the set value
10	Graphics editor button	Press this button to enter gallery and editor the graphics.
•	Custom	Press this button to enter custom interface and editor the graphics.
12	Back button	Press this button to sign out and return to system main interface

6.Gallery interface

Press button on Patten selection screen [picture ()] to enter Gallery screen as picture().

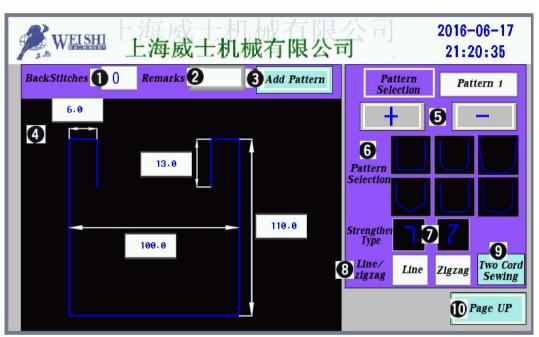


Figure () Gallery interface one

	Button/Display	Content
0	Strengthing needles	Setting the number of strengthing needles of the current processing file.
2	Remarks	Remark the current processing file for distinction ,which can be set up to two digits or letters
8	Graphics add	Press the button to generate processing graphics after setting all parameters.
0	Edit area of graphics	Set the width, depth, strengthing width, strengthing depth of the current graphics in this area.

6	No.of edit graphics	Select the No.of edit graphics. If the edit existing number, pls pay attention to the new file will recover the old one.
6	Graphics selection	There are 3 graphics in gallery for selection.
0	Strengthing types	There are 2 strengthing types for selection.
8	Line/Zigzag Mode selection	Select the line mode or zigzag mode.
9	Two Cord Sewing	Click the button enter the double-line graphics edit gallery.
•	Back button	Press this button to sign out and return to previous interface

Press button on Gallery interface one [picture ()] to enter Gallery screen as picture(IX).

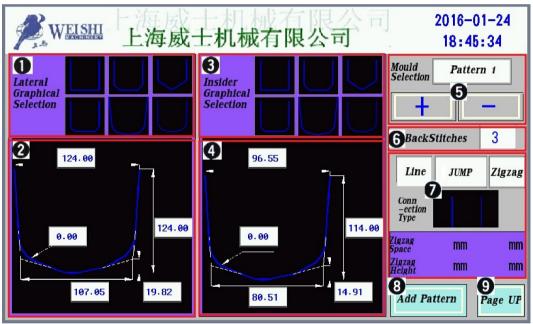


Figure (IX) Gallery interface two

	Button/Display	Content
0	Lateral Graphical Selection	Choose the type of outside processing graphics, at present there are 6 kinds of exterior graphics are optional.
0	Outside pattern editor size	Set the size of the outside edges of each graphic
8	Insider Graphical Selection	Choose the type of inside processing graphics, at present there are 6 kinds of graphics inside the optional.
4	Edit pattern size inside	Set the size of the insider pattern

6	No.of edit graphics	Select the No.of edit graphics. If the edit existing number, pls pay attention to the new file will recover the old one.
6	Strengthing needles	Setting the number of strengthing needles of the current processing file.
0	Strengthing types	There are 3 strengthing types for selection.
8	Graphics add	Press the button to generate processing graphics after setting all parameters.
9	Back button	Press this button to sign out and return to previous interface

7. Custom interface

Press button on Pattern selection screen picture () to enter Custom screen as picture(X).

Custom Graphics as a supplement to the gallery, which has generated graphics species more flexible, more diverse characteristics.

There are two ways to generate it: one is to draw a dynamic graphical X, Y axis taught by a user points the way; Another way is through the first CAD drawing graphics, the graphic is divided into lines and arcs recapture a straight line from the end point coordinates, if the arc, the need to capture the arc starting point, intermediate point, end point coordinate values.

If the user to custom graphics, data available to the Visa company headquarters sewing machine, and then simply enter the coordinates of the point in linear or circular can.

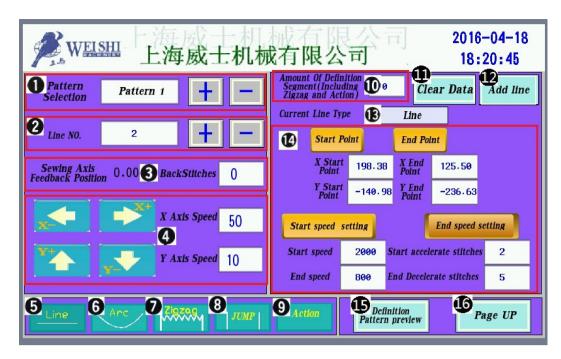


Figure (X) Custom graphics edit interface

	Button/Display	Content
0	No.of edit graphics	Select the No.of edit graphics. If the edit existing number, pls pay attention to the new file will recover the old one.
2	line No. of the current pattern edit settings	Select the No.of edit line.If the edit existing number,pls pay attention to the new file will recover the old one.
6	Strengthing needles	Setting the number of strengthing needles of the current processing file.
4	X, Y axis jog control and jog speed setting	On X, Y axis after jog speed setting, the mould can be taught, for acquiring and processing the graphics coordinate point, thereby generating graphics processing.
6	Select the type of straight line segments	Edit the current line type selection the key is a straight line, starting from the need to set the edit window segment, and end coordinates of the line segment, terminal velocity setting.
6	Arc segment type selection	The current segment type editor, select the button when the arc is required to set the starting point in the editing window of the arc, and the arc from the end point coordinates, end speed setting.
0	Tacking connection type selection	When the connection type human word for external lines connected to tacking sewing.
8	line connection type selection	Connection type is expressed inside and outside the word line connected to a line of sewing.
9	Jump Connection type	Connection type is digital, said inside and outside the wire in an intermittent (Jump Connection) fashion sewing.

•	Mold inner frame Add Action	When you add a front over the first segment to be added within a frame action, now get double the material inside the box before sewing the inside must be reduced mode operation, it is added in the action box, press the mode button to shrink, then set set to start shrinking mold in advance the number of needles, and the end of the delay time, press save to add the line.
•	Clear Custom data	Clear the current custom graphics editing all the data, so please exercise caution before you want to clear the currently selected graphic data processing.
12	Add the line	Change the button's function is to modify the current line data storage and editing.
₿	The current segment type display	Displays the current line type editing.
14	Line parameter editing area	Edit the current set of parameter data segment, setting method See 5 to 9.
B	Screen Preview	After pressing the alterations, pop the currently selected custom graphics preview.
16	Back button	Press this button to sign out and return to previous interface

8. Alarming record screen

Press button on the system main screen [picture (II)], the system will switch to alarming record screen as picture(XI). The current alarming history can be found in this interface.



Figure (XI) Alarming record screen

9. Manual operation screen

Press button on the system main screen [picture (II)], the system will switch to manual operation screen as picture(XII). Pls press reset button before enter this screen, and then operation can be carried out. Pls pay attention to avoid collision during operation.

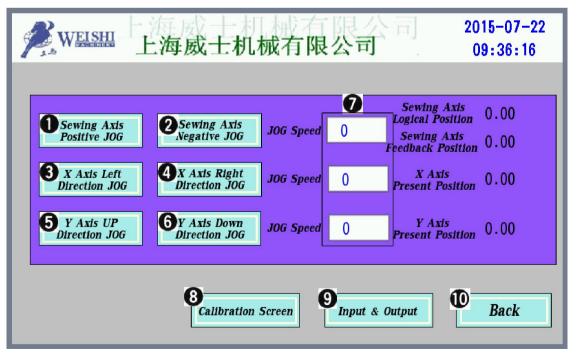


Figure (XII) manual operation screen

	Button/Display	Content
0	Needle bar	Press this button to set the speed of counterclockwise rotation. If the
U	forward pointed	speed is set to zero, it will not rotate.
2	Needle bar	Press this button to set the speed of clockwise rotation. If the speed is
4	negative pointed	set to zero, it will not rotate.
6	X-axis left	Press this button to adjust the left-right position of the motor at the
0	pointed	left moving speed set. If the speed is set to zero, it will not rotate.
4	X-axis right	Press this button to adjust the left-right position of the motor at the
9	pointed	right moving speed set. If the speed is set to zero, it will not rotate.
	Y-axis left pointed	Press this button to adjust the forward-backward position of the
•		motor at the forward moving speed set. If the speed is set to zero, it
	pointed	will not rotate.
	Y-axis right pointed	Press this button to adjust the forward-backward position of the
6		motor at the backward moving speed set. If the speed is set to zero, it
	pointed	will not rotate.
0	Setting area of	Set the pointed speed of axis in all direction.
0	pointed speed	Set the pointed speed of axis in an direction.
8	Calibration	Press this button to enter calibration screen. Pls pay attention to set
O	interface	the parameters cautiously after enter the calibration interface.
9	Input-output	Press this button to enter input-output interfac, Monitor signal, test
•	interface	every signal during repairing.
10	Back button	Press this button to sign out and return to main interface.

10. Calibration interface

Press button on the system manual operation screen [picture]

(XII)] ,the system will switch to calibration interface as picture(XIII).

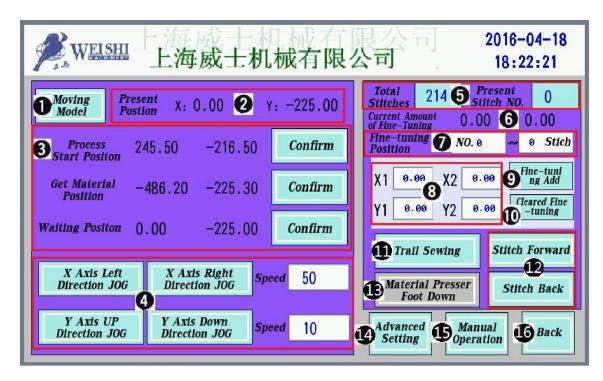


Figure (XIII) Calibration interface

	Button/Display	Content
0	Move mode / input mode	Select the origin of data. At move mode, move to the position by manual, then press OK button; At input mode, type the data by manual, then press OK button.
0	Coordinate display area	Display the information of current coordinate.
3	Processing, picking, waiting for the coordinates input (display) area	When the input mode, by manual input data, set processing, material taking, waiting for the coordinates; When the mobile mode, move through the manual way, set processing, material taking, waiting for the coordinates;
4	X,Y axis	Pls set the speed first.Press the corresponding button to control the moving on the axis.
6	Needle number	Display the amount and number of current processing needles.
6	Current Amount Of fine-tuning	Show the current processing and graphics of the needle X, Y amount of fine-tuning.
0	Fine-tuning position	Set the current fine-tune the start and end position.
8	Fine-tune start and end amount of fine-tuning	Set the current fine-tuning start and end of fine-tuning.
9	Fine-tuning	When fine-tuning start and end position of the needle, and start and end after fine-tuning volume Settings, click this button to add a fine; Is important to note that has been in existence before adding fine-tuning period of fine-tuning,

		need to delete, can add success; And fine-tuning after adding a
		certain trajectory calibration points to check mold, machine
		needle cannot wipe to take material frame;Otherwise you need
		to modify amount of fine-tuning.
		Removal of fine-tuning of the current period;Execute the
•	Class 4 Eine (seeine	fine-tuning removing functions need to be in calibration mode
o	Cleared Fine-tuning	will take Ren Yizhen moved to fine-tune sections of the
		frame, may to clear this fine-tuning.
		Press this button to enter the mode of trajectory
4	Tuois atomy calibration	calibration. The presser automaticly presses down and moves
4	Trajectory calibration	to the start position. Pay attention to reset before press the
		button.
		Ener the trajectory calibration for mold matching by press the
l	Previous stitch/next stitch	previous stitch/next stitch,to ensure the needle is in middle of
12		mould.If it is not in the middle ,pls readjust the start position
	Stitch	of machining graphics and press reset button after mould
		marching.
		Press this button to control the presser moving up and
13	Presser lifting	down.Pay attention that the presser can break the needle in
		unsafty working area. Pls operate with caution.
11	Advanced setting	Press this button to enter advanced setting surface.
45	Advanced setting	1 1055 tims button to enter advanced setting surface.
1	Manual operation	Press this button to retur to manual operation surface.
16	Back button	Press this button to sign out and return to main interface.

Sewing track trimming function instructions:

1, Horizontal fine-tuning mobile sewing track

If you want to move a certain period of sewing track right fine-tuning, please input the beginning and end of this sewing track pin number, and enter the start and end pin number corresponding to the positive amount of fine-tuning;

If you want to move the sewing track fine-tuning left a long period, please input the beginning and end of this sewing track pin number, and enter the start and end pin number corresponding to the amount of negative fine-tuning.

2. Vertical trimming mobile sewing track

If you want to move a certain period of sewing track revised upwards, please input the beginning and end of this sewing track pin number, and enter the start and end pin number corresponding to the positive amount of fine-tuning.

If you want to move some sewing track down fine-tuning, please input the beginning and end of this sewing track pin number, and enter the start and end pin number corresponding to the amount of negative fine-tuning.

11. Advanced setting interface

Press button on Calibration Screen [picture (XIII)], the system will switch to advanced setting interface as picture(XIV).

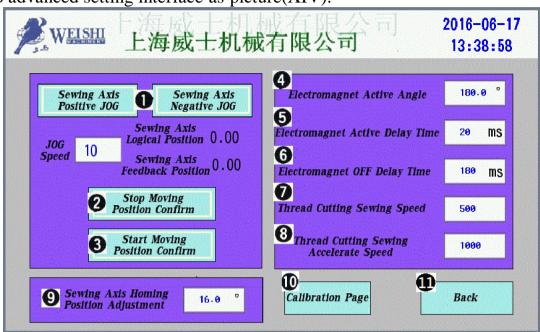


Figure (XIV) Advanced setting interface

Pls reset before enter this interface.

	Button/Display	Content
0	Positive / negative needle bar pointed	Press this button to control the positive and negative rotate, the speed is set in the blank of needle bar speed. If the speed is zero, it will not rotate.
0	Confirming falling position of needle bar	Press positive needle bar pointed button to move the needle bar to the position of needle hole, and then press this button to make the system keep record of the falling position of needle bar.
8	Confirming lifting position of needle bar	Press negative needle bar pointed button to move the needle bar to the position of needle hole, and then press this button to make the system keep record of the lifting position of needle bar.
4	Angle of electromagnet connection	Set the angle of electromagnet connection for cutting thread.
6	Delay time of electromagnet	Set the delay time of electromagnet connection.

	connection	
6	Delay time of electromagnet disconnection	Set the delay time of electromagnet disconnection.
0	Velocity of lifting needle bar when trimming	Set the velocity of lifting needle bar when trimming
8	Acceleration of lifting needle bar when trimming	Set the acceleration of lifting needle bar when trimming
9	Sewing Axis Homing Position Adjustment	By manual input parameters, rewrite the needle shaft stop position.
10	Calibration interface	Press this button to return to calibration interface, which requires a password to enter.
1	Back button	Press this button to sign out and return to main interface.

Press button on main interface. The system will pop up a window for entering the password, you must enter the correct password, otherwise unable to enter the calibration interface, the operation refers to calibration screen.

12. Input-output interface

Press button on Manual operation screen, the system will switch to Input interface as picture(XV).



Figure (XV) input-output interface

On input interface you can monitor all input signals. When the input signal is ON,the corresponding grid will tune red. The interface can present testing signals for maintan.

Press button on input interface, the system will switch to output signal testing interface as picture(XVI).Pls reset before enter.

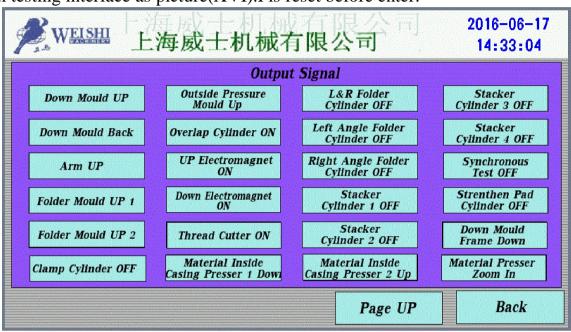


Figure (XVI) output signal testing interface

Pls reset after operation completed, otherwise the machine does not respond when pressing the start button.

Four. List of Fault Information

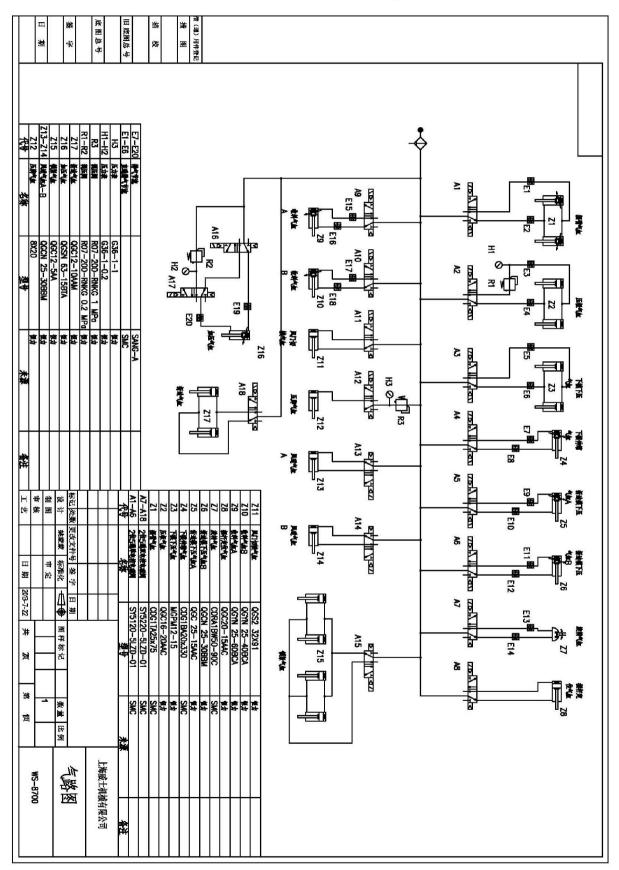
No.	Fault Information	Processing method
E01	E01 Needle bar alarm	When PLC detect the drive alarming of needle bar, the enter point of corresponding signal is I2B4.Please check whether the drive of needle bar alarm. Solution:Turn off the power when alarming, and wait for 15s to restart the power,then press reset button to put the machine into preparing state.
EO2	E02 X-axis alarm	When PLC detect the drive alarming of X-axis, please check whether the drive of needle bar alarm. Solution:Turn off the power when alarming, and wait for 15s

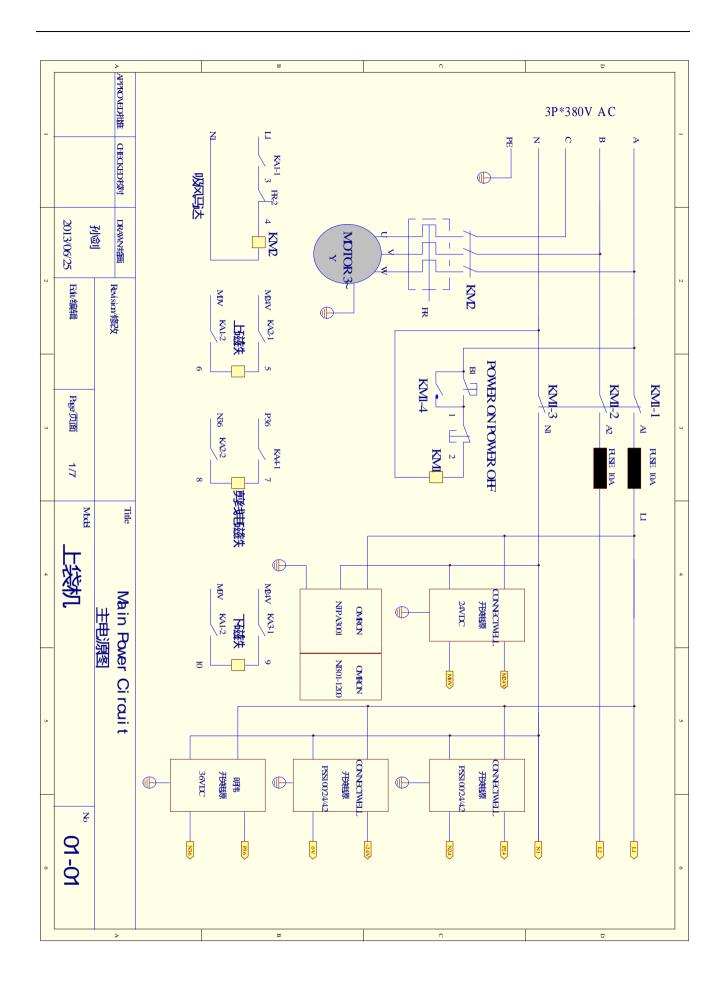
		to restart the power,then press reset button to put the machine
		into preparing state.
EO3	E02 V	When PLC detect the drive alarming of Y-axis, please check
	E03 Y-axis alarm	whether the drive of needle bar alarm.
		Solution: Turn off the power when alarming, and wait for 15s
		to restart the power,then press reset button to put the machine
		into preparing state.
		When alarming, please check whether emergency stop button
EO4		is pressed or loosen. The enter point of corresponding signal is
	E04 Emergency stop	I1B2, and it is "ON" when the emergency stop is not pressed.
20.		Solution:Unlock the emergency stop, press reset button to
		reset the alarm. Then press it again, the machine gets into
		preparing state.
		When start the function of bobbin counter, the stitching
		number is accumulated.Until it reaches the setting value, the
	E05 Insufficient ground	system will alarm to remind the operator to replace
EO5	thread	bobbin. The operator can't start the machine before alarming.
		Solution:Replace the bobbin, press button of bobbin counter to
		clear zero, then press reset button to put the machine into
		preparing state.
		Starting tread breakage detection , the system will hint
		information when detect breakage signal within the allotted
EO6	E06 Tread breakage	time, and stop the sewing to exit to the waiting position. The
EU0	alarm	corresponding signal is I2B2.
		Solution: Thread and press reset button, machine will enter to
		preparing process state.
		The system is equiped with machine head overset detection for
		the safty to avoid collision accident during maintaince.It
	E07 Machine head	signals when detecting overset.,the corresponding signal is
EO7	overset detection	I2A8
		Solution: If the machine head overset ,please place in the
		normal position.If machine head overset without
		alarming, please check the signal switch to see if it's broken.
		The system is equiped with pressure detection for the
		influence on the safety operation.It will alert the pressure
	E08 Pressure alarm	alarm when the pressure is lower than the set value (0.35MP),
EO8		at this time the machine can not start, the corresponding
		signal is I1B3.
		Solution: Please check if the air pressure is high enough, if the
		pressure detection switch is normal, if I1B3 wiring is damaged.
7.00		The system is with the function of pattern size editor and SD
EO9	E09 Graphics error	card transmission.In the graphics generation and processing,
	r	6 T 6 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T

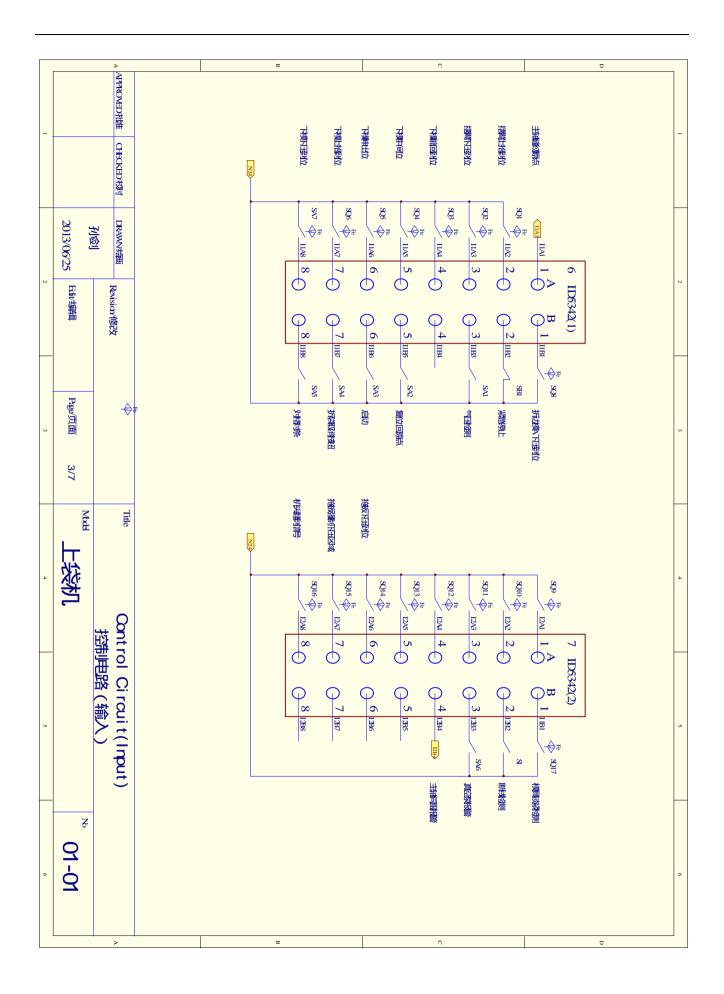
		the existen will promot error when detecting the size or CAD
		the system will promot error when detecting the size or CAD fauls. Please re edit.
E10		The plate is with the function of vacuum. The fun of vacuum
	710 T	pump is 380V/3. The system is with thermal relay protection
	E10 Vacuum pump	which will automaticly disconnect when detecting
	alarm	abnormalcurrent and voltage the corresponding signal is I2B3.
LIO		Solution.(1) Please turn off the electricity to test the balance of
		phase resistance.(2)Please check if the motor gets too much
		hot.(3)Please check if the thermal relay is damaged or the
		protecting current is too small (93.9A).
		The system is with the function of detecting mold locked, for
		the safty to avoid collection accident. The corresponding
E11	E11 Mold unlocked	signal is I2B1 and present "ON" when the mold locked.
E11		Solution:(1)Please check if the switch tuned to
		locked.(2)Please check if the switch is damaged.(3)Please
		check if the signal I2B1 is connected.
		The system is adoped EtherCat to alert when detecting fault.
		Solution:(1)Please check the communication network
	E12 Communication	connection from touch screen to PLC. (2) Please check the
E12	network alarm	cable connection from PLC to drive in X axis and Y axis. Turn
		off the power when alarming, and wait for 15s to restart the
		power.If it still doesn't work, please contact the equipment
		developer.
		The system is with the detection the motion control alarm.
E12	E13 Motion control	Solution: Turn off the power when alarming, and wait for 15s
E13	alarm	to restart the power. If it still doesn't work, please contact the
		equipment developer.
		PLC can detection the faults.
	E14 PLC alarm	Solution:(1)Please PLC alarm.(2)Please check if the
E14		emergency button is pressed.(3)Please check the air pressure.
		If it still alarms exclude the above references, please turn off
		the power and wait for 15s to restart the power.
		The system doesn't detect the signal (I1A8) when pressing
		bottom mould at a predetermined time.
D15	E15 Bottom mould	Solution: (1)Please check if the signal(I1A8) is "ON" when
E15	pressing overtime	pressing and the wire damaged.(2)Please check if the output
		signal (O1A6) is" ON" and the wire damaged.(3) Please
		check if the solenoid valve cables of O1A6 burned.
		The system doesn't detect the signal (I1A7) when lifting
E16		bottom mould at a predetermined time.
	E16 Bottom mould	Solution: (1)Please check if the signal(I1A7) is "ON" and the
	lifting overtime	wire damaged.(2)Please check if the output signal (O1A5)

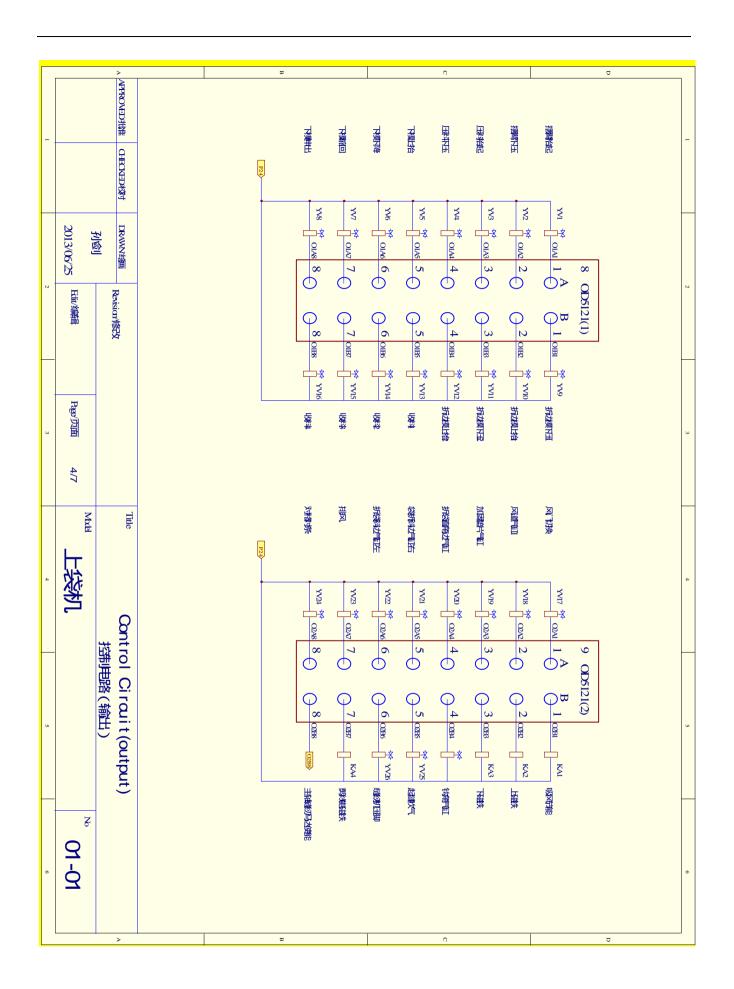
		is" ON" and the wire damaged.(3) Please check if the
		solenoid valve cables of O1A5 burned.
		The system doesn't detect the signal (I1A6) when extending
E18		bottom mould at a predetermined time.
	E18 Bottom mould	Solution: (1)Please check if the signal(I1A6) is "ON" and the
	extending overtime	wire damaged.(2)Please check if the output signal (O1A8)is"
		ON" and the wire damaged.(3) Please check if the solenoid
		valve cables of O1A8 burned.
		The system doesn't detect the signal (I1A3) when preesing arm at a predetermined time.
E19	E19 Arm pressing	Solution: (1)Please check if the signal(I1A3) is "ON" and the
E19	overtime	wire damaged.(2)Please check if the output signal (O1A2)
		is"ON" and the wire damaged.(3) Please check if the
		solenoid valve cables of O1A2 burned.
		The system doesn't detect the signal (I1A2) when lifting arm
		at a predetermined time.
E20	E20 Arm lifting	Solution: (1)Please check if the signal(I1A2) is "ON" and the
L20	overtime	wire damaged.(2)Please check if the output signal (O1A1)
		is"ON" and the wire damaged.(3) Please check if the
		solenoid valve cables of O1A1 burned.
		The system doesn't detect the signal (I1B1) when pressing
		edgefold at a predetermined time.
E21	E21 Edgefold 1	Solution: (1)Please check if the signal(I1B1) is "ON" and the
	pressing overtime	wire damaged.(2)Please check if the output signal (O1B1)
		is"ON" and the wire damaged.(3) Please check if the
		solenoid valve cables of O1B1 burned.
		The system doesn't detect the signal (I2A6) when pressing
		the plant at a predetermined time.
E22	E22 Plant pressing	Solution: (1)Please check if the signal(I2A6) is "ON" and the
ككنا	overtime	wire damaged.(2)Please check if the output signal (O1A4)
		is"ON" and the wire damaged.(3) Please check if the
		solenoid valve cables of O1A4 burned.
	E23 Overtime of needle	The system alerts and terminates the step when the needle bar
E23	bar returning to the	returns to the origin beyond a predetermined time.Please check
	origin	the original signal, which is I1A1.
E24	E24 Restoration	The system alerts and cancels the step if the restoration is
	overtime	beyond a predetermined time. Please check the original signal
		of every axis.
E25	E25 Excessive	The system alerts and terminates the step if the current value
	deviation of encoder	of encoder is out of the safe area. Please check the return signal
		of encoder on the needle bar axis and if the wires are damaged.

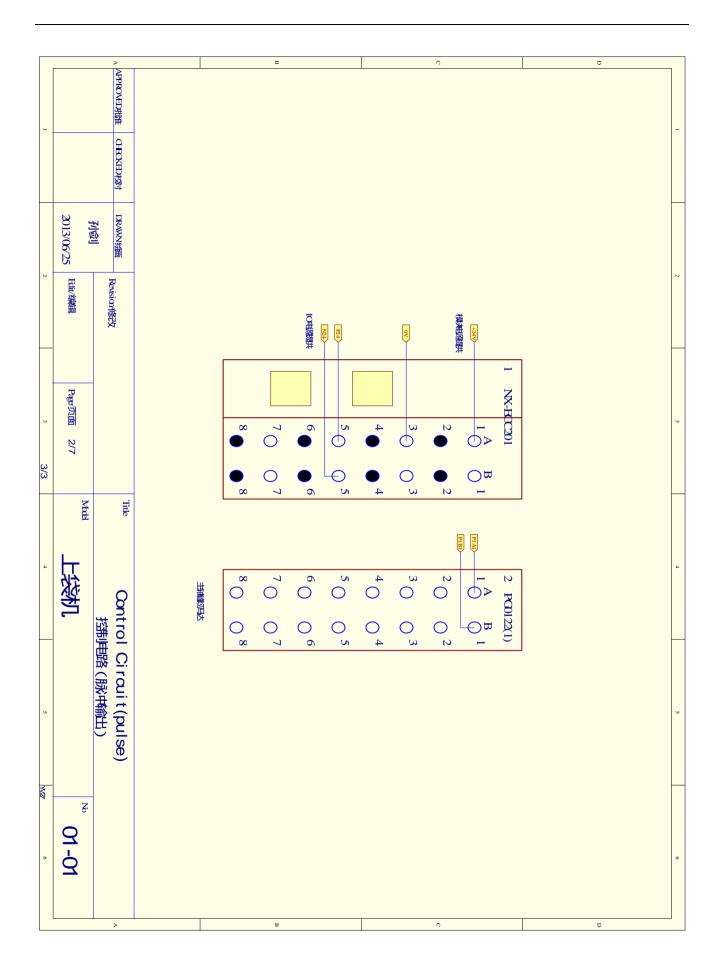
Five. Electrical Schematic Diagrams

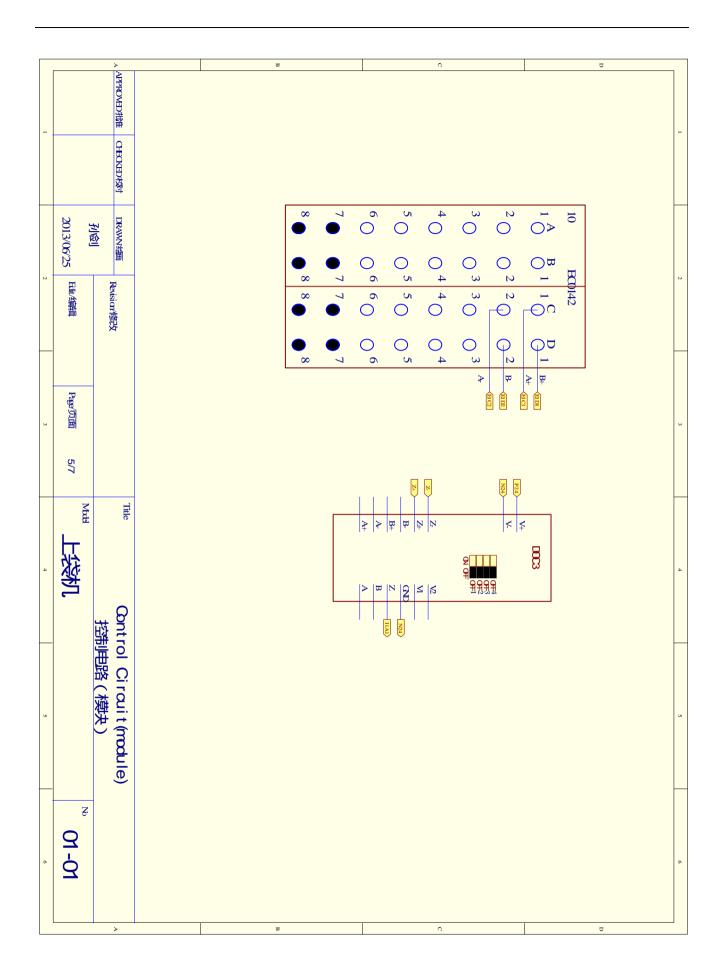


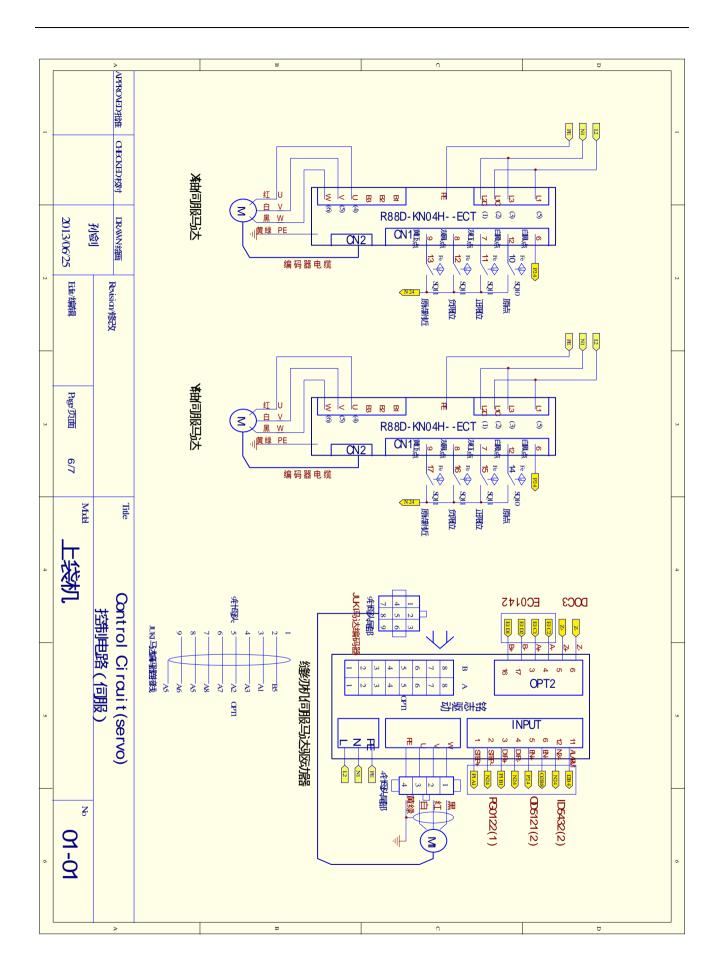














Shanghai Weishi Machinery C

52#, No. 1089, North Qinzhou Road, Sh

Tel: 021-64953003

Fax: 021-64957015

slight differences from the picture may be possible

due to improvements of model and appearance