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Chapter One Introduction

Thank you for using the computer-controlled hosiery machine control system designed and manufactured by Zhejiang Mind Automation Equipment Co., Ltd.

Please read this manual carefully to operate the equipment correctly. Please keep the manual property for the convenience of consulting at any time.

1.1 Precautions

Please abide by the following safety precautions and precautions to guarantee the safe operation and avoid casualties in the process of using this product:

1. This machine is only applied to power type marked on the nameplate, and power regulator must be equipped when the voltage fluctuation is over 10%.

2. The power line shall be fixed for safety protection, and it cannot bear forces.

3. The equipment must be grounded. If grounded improperly, it may lead to electric shock and impact the safety operation of the product.

4. The repair and debugging of electrical component shall not be conducted by non-professionals, for it may reduce the safety performance, increase faults and even lead to casualties and property loss.

5. Cut off the power of the machine before opening the computer case cover. When contacting the internal parts, it must wait for a minute after the power is cut off. When contacting the servo amplifier, it shall wait for 10 minutes after the power is cut off.

6. The machine is forbidden to operate when the shield of moving parts is defected.

7. The machine is forbidden to operate in damp and dusty places, or with corrosive gas and inflammable and explosive gas, or it may give rise to electric shock or fire.

8. Insulation test of the input and output circuit of the controller is forbidden, or it may damage the electric equipment.

9. Please change the fuse according to the specification indicated by the product.

10. The atmospheric pressure of the machine shall be above 6 kg/cm², or it may lead to the wrong operation of the air valve.

11. During the operation, any moving parts of the machine shall not be touched, or it may damage people.

12. Please use the spare parts and wearing parts provided by the factory;

13. Please use quality-ensured USB disk.

14. The product shall be placed in a clean and ventilating environment. There should not be piles of debris around the control cabinet, for the convenience of heat dissipation. Besides, dust shall be cleaned regularly.

15. Alterations of the manual will be added in the attachment. If the newly added contents are in conflict with the original contents, the newly added contents shall prevail.

16. The company will not undertake any responsibility for consequences of unauthorized alterations of products.

1.2 Introduction to functions

The computer-controlled hosiery machine has more powerful functions than similar imported products, besides the high reliability and low cost. Its functions and characteristics are introduced briefly as below:

1. The yarn path and triangle is in electronic-pneumatic control.

2. It adopts the sensing device automatic protection.

3. Adjustable automatic oil filling.

4. It can realize the multi-language display and free switch. Large LCD (800*480 lattice) can provide an explicit display effect.

5. The computer operation employs the graph menu and supports the touch functions, which is convenient in operation, with friendly man-machine interface.

6. With high-capacity memory, the pattern disk size of each system is as high as 1G, which can store 300 patterns.

7. It supports the display of folder and long file name.

8. The computer control box can drive 1-path and 12-blade actuator at maximum, extend the piezoelectric ceramic actuator, and be applied to any napping machine; basic computer 64-path valve.

9. The pattern and parameters can be imported into the machine through USB disk or export to USB disk for storage.

10. The machine can save the original weaving position in sudden blackout.

11. With servo control technology, it can guarantee the stable operation of machines.

12. With automatic detection functions of actuator, valve, etc. it can locate the fault point rapidly.

Chapter Two Operating instructions of system

Enter the main menu interface after turning on the power .



Chart 2-1

The bottom is the switch function keys of the main menu, while the two sides are the corresponding function keys of the sub-menu.

2.1 Running interface

The left of the running interface contains three information pages, including the "current chain", "file

information" and "status", which can be switched by clicking the button on the page. On the right, it is the related real-time information of the machine state.



Chart 2-3

State control The interface indicates related information of the current status of the machine, for professionals to judge the fault points.



Chart 2-4

2.1.1 Introduction to shortcut keys of the running interface

Speed limit: Press it, the running speed limit input dialog will pop up, and the running speed of the machine will not exceed the amount input, ranging between 30 and 300.

Input Dialog										
Limi (30										
1	2	3	Backsp ace							
4	5	6								
7	8	9	0							
	Ok	Car	ncel							

F1

Chain lock: Press it, the chain will be locked, and press it again, the lock will be released;

Pattern lock: Press it, the pattern will be locked, and press it again, it will be released;

Chain edit: Press it, it will jump to a password box, and input the correct code, you will enter the chain edit interface;

E3 Low-speed lock: Press it, the maximum limit of the operating speed is 80, and press it again, the limit will be cancelled;



Automatic stop: Press it, it will stop automatically after finishing a sock, and press it again, the stop will

be released;

F5

Shuttle lifting: press it, the Rubber yarn will exit, and all adding, yarn and rubber yarn will uplift, and press it again, it will gain the previous state

	Main Yarn CFG										
No.	Yarn No.	Move IN	Move OUT	ScissorON	ScissoOFF	mode					
1	Yarn 1IN		16	12	26						
2	Yarn10UT			1	38						
3	Yarn2IN		16	9	16						
4	Yarn2OUT			1	29						
5	Yarn3IN		16	11	26						
6	Yarn30UT			1	38						
7	Yarn4IN		16	9	26						
8	Yarn40UT			1	26						
9	Yarn 5IN		16	9	16						
10	Yarn 50UT			1	26						

Chart 2-5

201 1		Main Yarn CFG 🛛 🥸 m								
	No.	mode	CHG POS	OverNum	BlowSet					
	1	1	13	19	1234	0	0			
x	2	2	1	6	123	0	0			
x	3	3	132	144	123	0	0			
Y	4	4	156	162	123	0	0	D		
Ý	5	5	1	10	1	0	0	D		
Ý	6					0	0			
P	7					0	0			
C	8					0	0			
Ċ	9					0	0			
	10					0	0			
[F6]	[PU]Pa Up	nge [PD]Page Down	[F1]Yarn CFG	[F2]Mod eSet	[F3]Blow ing set	[ENT] OK	[ESC] Cancel			

Chart	2-6
-------	-----

NOTE:CHG POS= yarn change postion, OverNum= Overlapping needle number.BlowSet: Blowing

configuration, which blowing valve work .

201 1			Ма	in Yarn CF	G		2	rn
	No.	Mode	Blow No.	Blow open	Blow off			
	1	0	1	1	28	0	0	
x	2		2	8	28	0	0	
x	3		3	60	80	0	0	D
Ý	4		4	95	658	0	0	D
Ý	5					0	0	D
Ý	6					0	0	
P	7					0	0	
C	8					0	0	
Ċ	9					0	0	
	10					0	0	
							1	
[F6]	[PU]Pa Up	ige [PD]Page Down	[F1]Yarn CFG	[F2]Mod eSet	[F3]Blow ing set	[ENT] OK	[ESC] Cancel	

Chart 2-7

In this interface, we mainly set the parameters such as the shuttle's in and out positions, the shuttle's horizontal movement position, the scissors's in and out positions, the blowing in and out positions, and the line changing method.

The shuttle in and out with the horizontal movement in and out, the scissors in and out, the incoming line, the outgoing line, and the blowing in and out are mutually coordinated actions. The specific setting method is as follows:

(1) When there is a pattern in the chain, when the machine changes the shuttle according to

the control bar, the shuttle, the Horizontal movement and the scissors are all processed by the line changing method 0 by default.

The shuttle IN:

The general process is as follows: After the shuttle IN, horizontal movement immediately goes in. After the yarn is eaten, the scissors can be opened, waiting for a few stitches to move out again, and then closing the scissors.

The specific IN and OUT positions are calculated as follows:

the shuttle is IN Position = change position (corresponding to the line change method in the chain) chart2-6.

the Horizontal movement IN Position = the shuttle is IN Position + Move IN(chart2-5 blank indicates 0);

the Horizontal movement OUT Position = the shuttle is IN Position +Move OUT (chart2-5); the scissors open Position = the shuttle is IN Position + scissorsON (chart2-5)

the scissors closed Position = the shuttle is IN Position + scissorsOFF (chart2-5)

When the shuttle is hit, it must cooperate with the blowing action. The specific blowing is determined according to the matching of the nozzles of the corresponding changing method. Which kind of blowing should cooperate with the action, as shown in Method 2 in Figure 2-6, it means 1, 2, 3 The blowing nozzle should be blown, and the specific blowing position is shown in Figure 2-7.

The position at which to start blowing: the position where the shuttle is hit + the position where the air is blown in;

The position where the blowing is finished: the position where the shuttle is hit + the position where the air is blown out.

S The shuttle hits:

- When the shuttle is lifted, it is generally not necessary to do the translational movement. Whether the scissors should be operated depends on the situation; if the shuttle is raised in the state of being pushed, the scissors are generally opened immediately, and then according to the distance of the scissors of the needle, the scissors are equiaxed. Closed after being clamped in; no need to cooperate with the blowing action
- The position where the shuttle is lifted = the position of the change line + the number of overlapping stitches (corresponding to the method of changing the line of the chain) as shown in Figure 2-6;
- Corresponding to the position where the scissors are opened = the position where the shuttle is lifted + the position corresponding to the opening of the scissors (the data of the row from the shuttle) (Fig. 2-5);
- Corresponding to the position of the scissors off = the position where the shuttle is lifted + the position corresponding to the scissors off (the data of the row from the shuttle) (Fig. 2-5);

For example, in the current chain, the method 2 is changed, the No. 3 shuttle in the control bar is entered, and the No. 4 shuttle is exited.

Then the No. 3 shuttle is scored at 1 stitch.

The 3rd translation is in 1 stitch, and the 17 (1+16) needle exits.

The 3rd scissors is turned on at 12 (1+11) and the 27 (1+26) needle is closed. According to the method of changing the line 2, the blowing nozzles are blown by the blowing nozzles 1, 2, and 3: No. 1 blows the blow on the 2nd (1+1) needle, and the 29th (1+28) needle ends the blow; Blowing No. 2 starts blowing on the 9th (1+8) needle, and the 29th (1+28) needle ends blowing; The No. 3 blow starts to blow on the 61st (1+60) needle, and the 81st (1+80) needle ends the blow.

In brackets, 1 is the line position (corresponding to the line change method of the chain)

The 4th shuttle exits at 7 (1+6). No. 4 panning exits at 7 stitches, The 4th scissors is turned on at 7 (7+1) and closed at 32 (7+26); The shuttle exits without a blow fit;

(2) How to set the position in and out of the instruction in the chain:The shuttle in the chain scores:

The position where the shuttle is hit = the position set in the chain;

Position corresponding to the translation direction = position set in the chain + position corresponding to the translation;

Corresponding to the position of the translation = the position set in the chain + the position corresponding to the translation;

Corresponding to the position where the scissors are opened = the position set in the chain + the position corresponding to the opening of the scissors;

Corresponding to the position of the scissors off = the position set in the chain + the position corresponding to the scissors off;

When the shuttle is pushed in, the translation scissors is preferentially operated according to the setting in the corresponding line changing method. If there is no corresponding line changing method, the position is set according to the method set in the method 0; the shuttle is engaged with the blowing action, and the specific blowing is based on Corresponding to the nozzle matching method, it is determined which air blows to cooperate.

Position where blowing starts = position set in the chain + position where the air is blown in;

Position where the air is blown = position set in the chain + position of the blow out

The shuttle in the chain is played:

The position where the shuttle is lifted = the position where the shuttle is set in the chain; Corresponding to the position where the scissors are opened = the position where the shuttle

is set in the chain + the position corresponding to the opening of the scissors (the data of the row from the shuttle);

Corresponding to the position of the scissors off = the position where the shuttle is set in the chain + the position corresponding to the scissors off (the data of the row from the shuttle);

The needle selector is retracted: the needle selector is fully withdrawn, and the next chain selector

is still working normally.

BTSR learning: When the BTSR function is turned on, the first sock is automatically learned to record the working state of the BTSR.

2					V	alveTe	st					8
01	02	03	04	05	06	07	08	09	10	Va	lve nar	ne
	12	13	14	15	16	17	18	19	20	Wiri	ng num	ıber
21	22	23	24	25	26	27	28	29	30	1 Valve command		
31	32	33	34	35	36	37	38	39	40		F1:1	
	42	43	44	45	46	47	48	49	50	1	2	3
			64		50		68	69		7	8	9
	72	73	74	75	76		78	79	80	0	Backs	space
[F1)Othe rs	[F2]	Yarn	[F3]M e	lov [F4]Sc sor	is	[F5] blow	[F6]	Auto atic	ENT [ENT	1

In order to facilitate the commissioning of a certain or a group of valves, the function keys and numbers can be used together.

F1+number (1~52)+ENTER: test the specified valve in and out separately;

F2+ number $(1\sim 6)$ +ENTER: separately test the main shuttle two air valves in and out;

F3+ number (1~6)+ENTER: test the translating air valve in and out separately;

F4+ number (1~6)+ENTER: test the scissors valve in and out separately;

F5+number (1~4)+ENTER: separately test the blow valve to blow (the blow valve should be tested in the chain without working);



2 laps.



Press the pop-up forced reset confirmation box to quickly click will be executed first, and other parts will be reset immediately, and the main shuttle will not exit.

To perform a reset immediately, tap and hold the button 之之 之 on the screen for about 1 second, at which point all valves are reset. After the reset, the machine will enter the quick reset chain after 3 turns, and the needle will be transferred to the start state.

	Confirm
?	Do you want to do reset?
 ✓ 	Yes 🗙 No

Quick reset Press and hold the "quick reset" button for about 1 second to enter the fast reset state.

Weaving switch Press the pop-up mode setting interface (the gray part indicates that the work pattern-3 is not set), and select the corresponding work. For the pattern, press the OK button to enter the corresponding working mode. If the work pattern-1 and the work pattern-2 are all selected, indicating two patterns are cyclically woven in sequence, provided that two work patterns are set in the pattern management.





Total output setting

Press the pop-up total output setting interface. When set to 0, it means continuous weaving.

Input Dialog									
Target Piece 9999 (0~9999)									
1	2	3	Backsp ace						
4	5	6							
7	8	9	0						
0	k	Car	icel						

A

Density setting: Press the pop-up density setting interface, a total of 20 files, switch by page key

2018/06/29 15:00:22		D	ensity Edit			8	Re	eturn
Current C		Upper Dens	Down Dens	1	2	3		
	1.START	5	5				CT A	рт
XZQPos:	2.NYLON-R	25	40	4	5	6	STA	KI I
XZQCircle	3.NYLON	30	50	-			NGLE	0
YarnPos:	4.Elastic	40	55		8	9)S	0
YarnNo:	5.LEG	45	40	0	Backs	space	PEED	0
YarnCircle	6.HEEL	50	30)TAL	0
PARCircle	7.FOOT	35	45	Сор	yDenTol	Fiel2	NoBts	31
CWPos:	8.RING-TOE	45	40	_				
CCWPos:	9.TOE	30	30	Сор	yDenTo	Fiel3		IK
	10.ROSSO	20	45	C	nain- NC	vc	Κ	
					iain->3		\mathbf{P}_{\perp}	
[F6]MYPara	Page Up	Page Dov	wn Ent	er	ES	С		<<

When the "**density value following chain**" value in the machine parameter is "on", the current display is the density on the machine. It can only be used by the current machine and cannot be input and output with the file. When the value is "off", the above picture is displayed. Shows the density that comes with the chain, which can be output to other machines along with the chain file, depending on the customer's needs.

В

Suction control : Switching suction motor on, off, automatic control

2.2 Test menu

Press the key

E1 in the main menu to switch to the test

2.2.1 Actuator test

Press	1 in the test pag	ge of the mai	n menu to ente	er the actuator	test.			
	2018/06/29 15:01:52		<< Actuate	or Test >>		F	Return	
	NO.1 Acti	uator	111 9 7 5	12 10 8 6	FreqSE No.: 1	Г:	10 1 3 6	Knife action frequency the larger, the faster
			3	4	7	8	9	
				2	0	Back	space	
	[F1]AUTO	[F2]1X1	[F3]UP/DOW N	[F4]SINGLE	[F5]Ageing	[F6]Self t	-Tes	

[F1]AUTO The selected actuator is automatically tested up and down.

[F2] 1X1 press once to do actuator 1X1, press again to reverse 1X1

[F3]UP/DOWN press once to do actuator full up, press again to full down

[F4]SINGLE click the knife position to select it, then press to test

[F5]AGEING All the actuators automatic fully up/down, press the number keys to adjust the output

frequency.

[F6]Self-Test invalid

2.2.2 Valve test



[F1]AUTO The selected valve automatically on and off

[F2]ON/OFF The selected valve switched between on and off

[F3]Full Off all valves off

[F4]LOOP Automatically output from the 1st to the 80th air valves

[F5]Freq+ The output interval frequency of the valve is increased by 1 step. The larger the value, the

shorter the interval time.

[F6]Freq- The output interval frequency of the valve is reduced by 1 step. The smaller the value, the

longer the interval.

[A]Self-Test invalid

2.3.3 Step motor test

Press in the test page of the main menu to enter the step motor test

Please move the cursor to the corresponding motor before test

20	18/06/29 15:02:05		<< Step Mo	otor Test >	·>			Return
		Ou	tput Pos	ition				_
	DEN-1		5	0		[A]Cu	rrent Sel	t
	DEN-2		5	0		[B[Zero]	
	Rubb r	pm 5	00			1	2	3
						4	5	6
						7	8	9
						0	Back	space
	[F1]ADD	[F2]DEC	[F3]ZERO	[F4]LOOP	[F5]R- F	MOTO N	F6]R-M	ото

[F1]ADD Step motor forward rotate value

[F2]DEC Step motor reverse rotate value (Stop automatically after encountering the corresponding zero probe)

[F3]ZERO Step motor automatically turns to the zero probe position

[F4]LOOP Step motor automatically rotates value in the forward and reverse directions.

[F5]R-MOTO EN Rubber motor runs at the set speed (rev/min)

[F6]R-MOTO DIS Rubber motor stops

[A]Current set The operating current can be properly adjusted if the motor is not strong enough. The upper cylinder density and the lower cylinder density work in the same current, the adjustment range is 1.8~2.2A, and the lock current is 0.3~1A, as shown in Figure 1 below; The working current adjustment range of the elastic motor is 1.5~2.5A, as shown in Figure 2 below.

The general parameters can be set as shown below.

2018/06/ 15:02:		Step motor param se	et			Return
	Upper Step motor	Elastic Step Motor	Down	Step m	otor	
	Working current	<mark>2.0</mark>				et
	Lock current	0.8	1	2	3	
	Start speed	50	4	5	6	
	acceleration time	350				6
	Out-of-step pulse	20	7	8	9	9
	Differential pulse	20	0	Backs pace	•	:kspace
			~	Fwit		мото
[F1]			<u>^</u>	EXIL		JIS
2018/06/ 15:02:		Step motor param se	et			Return
2018/06/ 15:02:	Upper Step motor	Step motor param se Elastic Step Motor	et Down	Step m	otor	Return
2018/06/ 15:02:	Upper Step motor Working current	Step motor param se Elastic Step Motor 2.0	Down	Step m	otor	Return
2018/06/ 15:02:	Upper Step motor Working current Lock current	Step motor param se Elastic Step Motor 2.0 0.5	et Down 1	Step m	otor 3	Return
2018/06/ 15:02:	Upper Step motor Working current Lock current Start speed	Step motor param se Elastic Step Motor 2.0 0.5 50	Down 1	Step m	otor 3 6	Return
2018/06/ 15:02:	Upper Step motor Working current Lock current Start speed acceleration time	Step motor param se Elastic Step Motor 2.0 0.5 50 350	Down 1 4	Step m	otor 3 6	Return et
2018/06/ 15:02:	Upper Step motor Working current Lock current Start speed acceleration time Out-of-step pulse	Step motor param se Elastic Step Motor 2.0 0.5 50 350 40	Down 1 4 7	Step mo	otor 3 6 9	Return et 3 6 9
2018/06/ 15:02:	Upper Step motor Working current Lock current Start speed acceleration time Out-of-step pulse Differential pulse	Step motor param se Elastic Step Motor 0.5 50 350 40 60	Down 1 4 7 0	Step mo	otor 3 6 9	Return et 3 6 9 ckspace

[B]ZERO:This double-cylinder computer density motor has its own encoder detection, no zero-position probe, so you need to set the zero position.

Set the zero method: first, rotate the density motor to the appropriate position, then press the button to set the zero position.

20	18/06/29 15:03:03		<< Step Mc	otor Test >:	>			Return	
			tout Dog	ition					
	DEN-1		Con	firm		A]Cui	rent Se	t	
	DEN-2 This pos set to zero 1?								
	Rubb r	pm				1	2	3	
			()) () () () () () () () () (•		4	5	6	
			Yes	× No		7	8	9	
						0	Back	space	
	[F1]ADD	[F2]DEC	[F3]ZERO	[F4]LOOP	[F5]R-M EN	ото	[F6]R-M DIS	юто S	

2.2.4 Ac servo test

4

Press

in the test page of the main menu to enter the ac servo test



* for professionals, normal users are not recommended

* check the direction before test, generally forward, if reverse will break needles

* First enter the servo speed, recommended start with the low speed.

[F1]DIR Switch the direction of the servo motor (restart to effective)

[F2]LOW the speed is limited to 60.

[F3]ON/OFF servo motor on or off

2.2.5 Alert signal test

Press	in th	ne test pag	ge of the main	n me	nu to ent	er the al	ert s	ignal test		
	2018/ 15:0	06/29 03:27		<<	Alert Sig	nal Test	>:	>		Return
			9 color					alarmiti		
			00001					alaiiii11		
		F	lubb Error!					alarm12		
			Back					alarm13		
			Left!					alarm14		
		Y	′arnbreak1					alarm15		
		Ya	arn break2!					alarm16		
		C	own Yarn!					Servor Erro	r!	
			Up Yarn!					Socks Drop	o!	
			Pressure!					NO AC220	/!	
			No Oil !					ZeroNeedle	21	
			[F1]light green	[F2]	light red	[F3] c pump	oil C	[F4] Suction fan		

When the alert signal is active, the corresponding text background turns red

2.2.6 Key board test



When the switch or button is active, the color of the corresponding picture will change. This is to check whether all the buttons and switches on the test window are functional, and the R.STAR button cannot be tested on this interface.

2.3 File management



2.3.1 Pattern file management

Press **u** in the file management window to enter pattern file management

* maximum 300 files (the file extension is .PAS);

* Support folder and long file name (recommended long file name does not exceed 20 ASC characters);

* &1, &2, and &3 respectively correspond to the working files 1~3, and one working file can be set separately;

* Compatible with the .PAT pattern file of MIND 3rd generation color screen machine, which is automatically converted into PAS file;



[F1]Import USB file Import the pattern file from the USB flash drive into the system.

The .PAT file of the 3rd generation machine will be automatically converted into .PAS file.



[F2]Export file

Export the pattern file in the system to the USB flash drive. Enter the file name and press the to export. The file format is fixed to .PAS.



2018/06/29 16:00:40	<< Patte	ern File >>	Run Return
	Input F	ïle Name	14:27
	File Name	168YX1	16:07
&1	A B C D E	FGHIJ	13:36
	K L M N O	P Q R S T	
	UVWXY	Z 0 1 2 3	
	4 5 6 7 8	9 - Backspace	
	Ok	Y Evit	
[F1]Import	[F2]Export [F3]Delete	[F4]Edit [F5]Pat View	[F6]Work Set

[F3]Delete delete the selected file (cannot delete the folder)

[F4]Edit enter the chain edit page of the selected file

[F5]Pat View edit the pattern file data

[F6]Work set set working pattern file

Items
[1]Set Work &1
[2]Set Work &2
[3]Set Work &3
[4]Set Unwork
Exit

2.3.1.1 Pattern view

In the pattern file management window, select the file and press 5 to view pattern.

测试168	8.PAS			<<	Patte	ern View	1	>>		Run	Retu	ırn
0	50	100	150 20	0 250) 300	350	1F X=	=0;Y=0				
0	666	616161	a									
50	666	999	9									
100	222	2 2 2	8									
150 9	222	222	Ø									
200	9 <u>7</u> 9 9	7977 999	3							[A]I	PenSel	
250	999 666	9999 6666	8							[Men	n]Save	
6	616161	616161	6		_					[p]]	manart	
			_		_				I E 4			
[1]	x1	[2] x2	[3]	x 4	[4] x 8	[5] :	x12	[6] x16	rn (Config	Edit	p
Press	笔选择 Items 1F Slow R1 R2 R3 R3 R4 R5 R6	end to se	elect a p	een								

Pattern edit note:

- 1. Select the pen, 1C refers to pattern data, others are control bar data.
- Press UP/DOWN/LEFT/RIGHT button or click the screen to select pixle, press "ENTER" to draw and press again to cancel

Note: When the control bar is drawn, the cursor will not move to the corresponding position, just look at its corresponding vertical coordinate.

[F4]M-Yarn config invalid

[F5]Loop edit invalid

2.3.1.2 Chain edit



[POS] Chain position name, click the name to modify.

START	FOOT
NYLON-R	RING-TOE
NYLON	TOE
Elastic	ROSSO
Elastic-2	LOSE
LEG	END
HEEL	Exit

[SIZE] set the position circle number

 \circle{SPEED}

[RUBB] set rubber motor speed. The larger, the faster, range 0~127.

When the latter mode is "progressive", the second data indicates the rubber speed at the end of this part.

[DEN1] set the gear value of the knitting density in this part.

When the latter mode is set to "progressive", the second data indicates the density value of the syringe at the end of the part.

The first data represents the initial density and the second data represents the end density. Suppose the two values are 4, 8, respectively. The density motor automatically calculates the position that each motor needs to be rotated according to the actual density value corresponding to the two gear values and the current chain size. That is, the density value is uniformly changed from 4 to a density value corresponding to 8.

[DEN2] ditto

[CHNo.] Set the line number, select the main shuttle, pan, blow, scissors corresponding entry and exit position, select the appropriate change position;

[PAT]

pattern: the needle selector works according to the pattern,

jacquard: the needle selector works according to the jacquard data;

The latter two spaces indicate the pattern start and end circles:

Setting (1 0) means knitting from top to bottom according to the pattern;

Setting (10 20) means knitting from 10 lap to 20 lap of the pattern. If the size of the part is greater than 10, continue to loop;

[Hee1] The first data represents the center offset of the heel. The second data indicates the starting needle of the sock with the needle in the stocking, the starting needle indicating the range of the pattern when the other part has the pattern, and the inactive when the pattern is not used; the third data indicates the heel in the stocking When the needle is over, the needle at the other part has a pattern, and the end of the pattern is invalid. For example, the bottom position of the socks (41 126) means that the needles work from the 41st to the 126th needles, and the needle selectors do not work in other areas; if the socks are set, the range of the socks is 41 to 126. needle.

Circle

There can be up to 8 actions CY-1...CY-8 in each chain module.

Each CY has a corresponding action number, the setting range is 1~50;

The number of laps corresponding to the current CY, the setting range is 1~999;

The characteristic values corresponding to the current CY are 0, 1, 2, 3, 7.

- ➤ 0, 1: normal,
- \blacktriangleright 2: the current action is forced to slow;
- ➢ 3: the current action is post, generally not used;
- \succ 7: the heels are continuous, generally used for boat socks (invisible socks).

continuous socks, more than 8, can not fit in one chain, the last action characteristic value of the current chain should be set to 7;

Each CY has a corresponding configuration instruction set, and up to 16 instructions can be inserted. The instruction set is as follows;

Each CY has a corresponding configuration instruction set, and up to 16 instructions can be inserted. The instruction set is as follows;

Configuration instruction set

测试168.	PAS	<<	Chain Edit	t >>
01. START	POS:	HEEL		CY-1
02. NYLON-F	R-1	NC5	NC7	LowSP
03.NYLON 04.Elastic	R-2	NC6	RubbSp	R-5 R-4
05.Elastic	R-3	DEN-1	GUM1	R-3
06.Elastic	R-4	DEN-2	Pat_Stop	R-I
08. LEG	R-5	MYarn-E	PosAdd	
09. HEEL	R-6	WindDoor	HeelColor	
10.F001 11.RING-T0	NC1	LowSP	HeelLoop	4 CY-5 CY 14 :
12. TOE	NC2	CHNo.	HeelFA	1
13. RUSSU	NC3	HeelQuick		2
1	NC4	RestDis	Exit	7 8
[PU]Pag Up	je [PD]Page Down	e [F1]Insert	[F2]Delete	[F3]Copy

The values in the following instructions related to the in-out position are the number of stitches, not the angle;

R-1.....**R-6:** The main shuttle instruction, in-out position of main shuttle;

NC1- NC6: not used;

DEN-1: When the action in the chain requires different density, the density command can be inserted, the

insertion is invalid in CY1;

DEN-2: same as above;

MYarn-E: not used;

WindDoor: air door valve in-out position;

Low SP: set the current speed of action;

ChNO.: Same as the change line id function in the chain. You can insert this if the actions in the same chain require different line id., but this instruction is invalid in CY1.

HeelQuick: not used;

RestDis: It is forbidden to enter the fast reset chain state at the current part.

NC 7: not used;

RubbSp: adjust the rubber speed, this instruction is invalid in CY1;

GUM1: Rubber shuttle in and out position;

Pat_Stop: suspend pattern circle counting until the next action;

PosAdd: the maximum value of the position is 40; the state can be left, right or both.

rotate more angle when knitting heel, and only for that one circle; automatically restored to the original position in next circle;

HeelColor: invalid

HeelLoop: Provocative loop setting, often used when doing small heels. For example, when picking needles, set left pick to 2 and left press to 1; when pressing needles, set pick needle to 1 and press needle

to 2. If the double pressing needles, set both sides; if it is asymmetry, you can set only one side;

HeelFA: the turning position is forced to increase or decrease, and it remains valid once the change;

2.3.1.3 Chain Action edit

In the chain edit window, click the "Enter Action" button to edit action. An action can be filled with up to 44 air valve states.

	Act: Valv	10 (9. 18 -	HEEL)		<	< (Chain .	Act Edi	t >	»>		Run	Return	
Current action id and air valve id	Valv Pos: Valv Pos: Valv Pos: Valv Pos:	18 170 2 86 * * * * * * * * * * *	12 106 4 45 * * *	11 133 7 1 * * * *	9 119 3 49 * * *	15 72 37 8 * * * *	14 107 10 8 * * * *	8 144 28 118 * * *	26 165 49 200 * * * *	25 161 50 200 * * * *	13 160 51 200 * * * * *	1 62 * * * * *	[PU]Page Up [PD]Page DN [A]END	Air valve action,
jacquard	1C:	No.	20										[B]SelRe s	gray means invalid
	[F1]Clear	[F	2]Copy	/ [F	3]plas	ter						[MEM]Save	

- [PU]Page Up show last action
- [PU]Page DN show next action
- [A]END end position of action, The current and subsequent valve action units become inactive.
- [B]SelRes edit jacquard
- [F1]Clear clear all air valve state settings and actuator settings
- [F2]Copy copy current action data
- [F3]Paste replace current action data with the copied data;

Click once air valve unit, the name will be shown on the left top corner, click again to edit air valve settings.



Act: Valv	1 (1. 25 -	START)		<	<< (Chain J	Act Edi	t >	>>		Ru	n	Return	
Valve: Pos:	25 3	3 3	51 23	49 23	4 3	26 3	13 3	18 3	*	* *	*		[PU]Page Up	3
Valve: Pos:	* *	*	* *	* *	* *	* *	* *	* *	* *	* *	* *		[PD]Page DN	3
Valve: Pos:	* *	* *	* *	* *	* *	* *	* *	* *	* *	* *	* *		[A]END	
Valve: Pos:	*	* Items	*	* *	* *	*	* *	* *	*	* *	* *			
1C: 📘													[B]SelRe	2
		*											S	
		&												
		#	_											
[F1	.]C	Exit	opy	/ [F	⁻ 3]plas	ter						[ME	EM]Save	

&: When pattern is used, knitting according pattern view if the jacquard is out, knitting according the jacquard

if the jacquard is in.

#: When pattern is used, knitting according pattern view if the jacquard is in, knitting according the jacquard if the jacquard is out.

Jacquard edit 2.3.1.4

In the action edit window, press 🔼 to edit jacquard data. A total of 20 groups can be edited.



[F1]RepCopy set the state of all the needles in the current part as out

[F2]LocCopy copy the current part jacquard data

[F3]Paste paste the copied jacquard data to the current part.

[F4]Block Fill set the state of all the needles in the current part as in

[F5]Block Copy set the block copy, as shown below:



Indicates copy needle 1~2 to needle 3~144.

2.3.2 Machine file management

Press in the file management window to enter machine file (MAC) management window

2018/06/29 15:08:23		<< Machii	ne File >>	>	Run	Return
》 词词	168N.MAC		13.52KB	2018-04-2	28 16:34	
	[F1]Import	[F2]Export	[F3]Delete	[F4]Edit		

If there is no machine parameter, the system cannot be operated.

[F1]Import Enter a machine parameter file from the USB flash drive and press **[1]** to pop up the load window.

LoadM	lacPara File					8
	WJ_OutGuiBmp		2	018-06-29	9 15:30	
	测试168N.MAC	13.52k	(B 2	018-04-28	3 16:34	
						▼
File 1	ype: *.MAC		Ok	X	Cancel	

There can only be one machine file. When you re-enter a machine parameter file, the previous machine parameter file will be automatically overwritten.

[F2]Export Export the machine parameter file in the memory to the USB flash drive

[F3]Delete Delete the machine parameter file in memory

[F4]Edit Enter the machine parameter file editing window

2.3.2.1 Machine parameter setting

测试168N.MAC]试168N.MAC				<< Mac File Edit >>				Run		Return	
Ma	icPara			Se	elPara		Ac	ldYarı	n			
ТҮРЕ		Doubl	e	MD-P	-	Cw						
MAC ZERO		325		LCD T	ime	40		1	2		3	
Heel-L Heel-R		178 183		STOP BTSR	Pos - E	120 Off	ľ	4	5		6	
Heel-END Heel-CUT		171 210		Sock- Windl	E D-P	Off 0		<u> </u>		+		
HeelCHCUT Master delay	/ N	1 Fast		Q-Nu	m	0		7	8		9	
MYarn-P	MYarn-P Cw							0	Bac	:ksj	pace	
[F1]MacPara	1]MacPara [F2]RubbCF [I G		[F3	3]ValveCF G	[F4]RestCha in	ANGLE	35		[MEI	M]S	AVE	

[01. TYPE] Machine type. Make sure that this parameter matches the actual machine configuration, otherwise some features will not function properly.

[02. STICK LEN] The total number of needles in the syringe, if the set value does not match the actual, will affect the calculation of the current position.

[03. MAC ZER0] The reference point used to determine the position of the syringe, if set incorrectly will affect the action position of the needle selection, gas valve and other equipment.

Click the input item to pop up the password box. After entering the correct password, the zero position setting interface will be displayed.



[04. HEEL-L] The position of the stocking with the left side of the stocking, this parameter determines the picking position.

[05. HEEL-R] The position of the stockings with the right side of the head, this parameter determines the picking position of the needle.

- [06. HEEL-END] At the end of the sock, the angle of return of the reverse rotation is positive.
- [07. HEEL-CUT] The heel is ready to change the angle of reversal when preparing.

[08. HEELCHCUT] invalid.

- [09. Master delay N]invalid.
- [**10. MYarn-P**] invalid.
- [11. MD-P] Used to set the output status of the scissors.
- [12. reserved]
- [13. LCD TIME] When set to 0, the screen saver is invalid and the brightness is always displayed. Others indicate that the screen brightness is automatically dimmed after a specified time. (The value unit is 10 seconds, that is, when set to 10, it means that it will automatically darken after 100 seconds).

[14. Stop pos] It is used to adjust the stop position when the position is specified. The numerical unit is angle.

[15. BTSR EN] Used to set whether the BTSR part is open.

[16. Sock EN] used to set whether the socks warning function is turned on.

[17.WindDoor-P] invalid.

[18.Q-num] invalid

Click "actuator parameter", switch to actuator related parameter setting interface

Please set the peripheral position of each actuator correctly before running, otherwise the actuator will not work as expected.

7	则试168N.MAC		<< M	lac File Edit			Rı	ın f	Return	
	Ма	cPara		SelPara			AddYar	n		
		NC		<mark>248</mark>						
		NC		0						1
		1CPOS		193			1	2	3	
							4	5	6	
							7	8	9	
		Sel ,	Angle: 18	3			0	Backs pace	Set	
	[F1]MacPara	[F2]RubbCF G	[F3]Valve0 G	CF [F4]Rest(in	Cha	ANGLE 3	5	[MEM]SAVE	

[21. 拉毛位置正] 拉毛 actuator 的正转外设位置,考虑到 actuator 的提前量,如果是 6 刀的拉毛

actuator,零位针前的第5针对准 actuator,然后将角度值填入,一般值为 350 左右,以实际校准值为准。

[22. 拉毛位置反] 拉毛 actuator 的反转外设位置,考虑到 actuator 的提前量,如果是 6 刀的拉毛 actuator,第5针对准 actuator,然后将角度值填入,一般值为10 左右,以实际校准值为准。

[23.1C 位置] 1Cactuator 外设位置

确认 actuator 外设位置的

方法 1: 点动或手摇机器,将零位针对准该 actuator 刀头,然后将"1F 位置"下方的 actuator 角 度值填入对应的 actuator 外设位置。

方法 2:点动或手摇机器,使零位针的前一组针刚过 actuator 刀头,然后将右下角的**角度值**("保存"键左侧)填入对应的 actuator 外设位置。

注:方法1中actuator角度值程序中已经包括提前量,方法2中的角度值是要自己计算提前量。 点击"添纱设置",切换到添纱相关参数设置界面

ł	测试168N.MAC		<< Mac File Edit		>>	>>		n	Return	
	Мас	cPara	S	elPara		A	ddYan	n		
		Advance		10						
		ChangeSP1 ChangeSP2		50 45			1	2	3	
							4	5	6	
							7	8	9	
							0	Вас	kspace	
	[F1]MacPara	[F2]RubbCF G	[F3]ValveCF G	[F4]RestCh in		GLE 35		[MEN	1]SAVE	

[29. 添纱提前量]角度值,添纱提前下的位置,考虑到添纱梭的反应时间,一般设置为100;

[30. 换线减速 1] 控制条慢速控制画红色时对应的速度;

[31. 换线减速 2] 控制条慢速控制画绿色时对应的速度;

2.3.2.2 Rubber setting

V	则试168	BN.MAC			<<	Мас	c File E	dit	>>			Run	Return
			No.1R	ubb					N	o.2Ru	bb		
				Ru	bbMoto	r		NC		N			
	St	art			11		t	L30		12	2		
	St	ор			23			90		1:	L		
	1	2	3	4	5		6	7	8		9	0	Backs
	[F1]MacPara [F2]RubbCF [F3]ValveCF G G		[F4]F	RestCha in	AN	GLE 3	35	[ME	M]SAVE				

Two spaces below the rubber motor are valid, others are invalid.

Rubber motor starting work position = rubber shuttle 1 in position + rubber motor working angle;

Rubber motor stop working position = rubber shuttle 1 out position + rubber motor exit angle;

2.3.2.3 Air valve setting

7	则试168N.MAC		<<	Мас	File	e Ed	it :	>>		Run	Return	
	Mai	n Yarn	Ĩ	Lift	: Val	lve			Reset	: Valve		
		M1:	71	1	9		31					
		M2:	72	2	0		32					
		МЗ:	73	2	1		33		- 1	2	3	
		M4:	74	2	2		33					-
		M5:	75	2	3		34		4	5	6	
		M6:	76	2	- 4		35		7	8	9	
			,0	2	1		00		0	Bac	kspace	
	[F1]MacPara	[F2]RubbCF G	[F3]Va G	F3]ValveCF G			estCha 1	ANGLI	35	[ME	M]SAVE	

Main shuttle valve configuration, these parameters are temporarily invalid;

Click "lift valve" to switch to the parameter setting interface of the lift valve, which is the setting of the shuttle valve number for the knitting interface;

测试168N.M	1168N.MAC			<<	Ма	ic File	Edi	t >	»>		Run	Return
М	lain Ya	rn			Li	ift Valv	/e			Reset	Valve	
	0:	<mark>31</mark>		32		33		34				
		35		36		37		38				
		39		40		41		42				
		43		44		45		46				
		47		48		0		0		1	2	3
		0		0		0		0			-	
		0		0		0		0		4	5	6
		0		0		0		0		7	8	Q
	I:	0		0		0		0				
		0		0		0		0		0	Bac	kspace
											1	
[F1]MacPar	F1]MacPara [F2]RubbCF G			[F3]Val G	veC	F [F4]	Re: in	stCha	ANGL	35	[ME	M]SAVE

Click "Reset Valve" to switch to the parameter setting interface of the reset air valve. The air valve set here is the valve number that is forced to enter when the operation interface is forced reset.

Ņ	测试168N.MAC			Мас	: File	Edi	t >	»>		Run	Return
	Mai	n Yarn		Lift	t Valv	re			Reset '	Valve	
	I:	5	6		13		14				
		15	15		18		25				
		28	33		36		39	-			
		42	45		48		0	-			
		0	0		0		0		1	2	3
		0	0		0		0		-		
		0	0		0		0		4	5	6
		0	0		0		0		7	8	0
	0:	0	0		0		0		,	0	
		0	0		0		0		0	Bacl	space
	[F1]MacPara	[F2]RubbCl G	F [F3]∨a G	lveCF }	[F4]	Re: in	stCha	ANGLI	35	[ME	M]SAVE

2.3.2.4 Quick reset

In the "machine parameter edit" window, press **E4** to enter the quick reset chain editing window. For the setting method, refer to the chain editing of 3.4.1.



2.3.3 Encrypted file management

*This function is guided by the manufacturer's professional

2.3.4 System profile management

*This function is guided by the manufacturer's professional

*The machine will not enter the running state when the system configuration file is missing.

* When the system configuration file information does not match the manufacturer, it will affect the encryption function.

2.3.5 Load valve configure file

Press **5** in the file management window to load the valve configure file. The file extension is .MTR

Load Config File					8
💼 WJ_OutGuiBmp		2018	3-06-2	9 15:27	
					_
					.
File Type: *.MTR	\checkmark	Ok	X	Cancel	

Select the right configure file and press the OK button to load.

Please confirm that the file is consistent with this machine before loading, otherwise it will affect the normal function of this machine.

2.4 System settings menu

Press **F3** in the main menu to switch to the system settings window.



2.4.1 Clock set

In the system settings window of the main menu, press **u** to pop up password box, enter the correct password and enter the clock setting window.

2018/06/29 15:28:17 Clock Set Return Click to modify the Date: 2018 / 06 / 29 🔶 location to Time: 15:28:16 switch the 1 2 3 cursor 4 5 6 7 8 9 0 Backspace [MEM]Save After modifying the correct time, press to pop up the confirmation box, and press ENTER to save

the modified system time.

2.4.2 Touch screen proofreading

to pop up password box, enter the correct

In the system setting page of the main menu, press password and enter the touch screen proofreading window.

Press the touch pen to click the cross cursor that appears, and there are 3 points.

* In use, if the touch position is found to be offset, please check the touch screen in time.

2.4.3 System parameters

Press on the system settings window of the main menu to enter System Parameter Settings window.

2018/06/29 15:28:25		<< System	Para Se	et >:	>			Return
Automatic ailing		Hool aloued		0	_			
Automatic oning		neer slow u	OWI	0	_			
Refueling mode	Time	Rubb moto	r dir	Cw				
Oling period	60	Density ste	p1 dir	Cw				
Oling hold	3	Density ste	p2 dir	Cw				
Select Power	4	Density fror	n cha	Off				
Select polarity	Cw	Terry Selec	t Dir	Cw				
Select no.1 knife	Up	Selector ad	justm	0			2	3
Stop control mod	I Slow	AddOverlap	Needl	0		4	5	6
Singel Stop	Off	Low speed	limit	100		7	8	9
Ouput enable bo	Off					0	Bac	(epace
							Daci	opace
	[F1]Import	[F2]Export	[MEM]]Save	[F5]e	ARRY		

[Automatic oiling] set whether automatic oiling is enable.

[Refueling mode] Click to pop up the fueling mode selection box, this mode and [oiling period]. [oiling hold]

together determine the action of refueling



[Selector power] It is used to adjust the strength of the actuator. The setting range is 0~10. The default is 0.

If the setting is too large, it may cause overheating of the actuator during operation, which may result in burning the actuator coil. It is recommended not to be greater than 6.

[Selector polarity] Used to adjust the direction in which the actuator moves.

[Selector no.1 knife] Used to adjust the up and down position of the actuator #1 knife.

[Stop control mode] It is used to adjust the braking force when stopping during operation, and choose fast or slow depending on the stop effect.

[Single stop] Automatically stop for each sock.

[Output enable boot] Used to set whether the actuator will automatically age every time it is turned on.

[Heel slow down] invalid

[**Rubber motor direction**] Used to adjust the direction of rotation of the rubber motor.

[Density step1 direction] Used to adjust the direction of rotation of the cylinder motor.

[Density step2 direction] Used to adjust the direction of rotation of the CAM motor.

[Density from chain]

Off: The density gear value is saved on the machine, and can not be input and output along with the file;

Open: density gear value is stored in the chain file, and can be input and output along with the chain file.

If the consistency of the machine density plate is better, you can set it open, as long as the density value of one machine is adjusted, the chain file can be directly used on other machines without having to adjust the density value.

[Terry selector direction]: invalid

[Selector adjustment]: invalid

[AddOverlapNeedle]: invalid

[LowSpeed Limit]: The maximum speed limit in the chain action which has no speed limit;

[F1]Import Load the machine parameter file from the USB flash drive and click to pop up the file box. File extension is .MAC

Load	system para		<u>(3</u>)
	WJ_OutGuiBmp		2018-06-29 15:30
d d d d	SYSM-MD.SYM	512	2018-06-30 14:36
t			
File 1	Type: *.SYM	\checkmark	Ok 🗙 Cancel

[F2]Export The system parameter file is exported to the USB flash drive, and the filename prefix is fixed to SYM;

[F5]e-ARRY

The arrangement of the jacquard needles is displayed. When installing the machine, the jacquard pieces must be installed in order according to the displayed quantity.



2.4.4 BTSR

Press

on the system setting window of the main menu to enter the BTSR parameter setting

	2018/0 15:2	6/29 8:31			<<	вт	SR Set		>>			Return	
Press A to					_			1					
set after	BTSR	Num(1	~32)	32		[A]S	et						
type	Break	Rang(1~20)	16				ĺ					
	Kink F	Rang(1	~30)	20		[B]S	et						
Press B to	_			1						1			
set after						Delay	time(1~8)					
type	1	5	5	5	5	5	5	5	5	1	2	3	
	9	5	5	5	5	5	5	5	5	4	5	6	
BTSR	17	5	5	5	5	5	5	5	5	7	8	9	
	25	5	5	5	5	5	5	5	5	0	Bacl	space	
								1					
					[F]	1]Read ensiti	[f	2]Set ensiti					

window.

After setting the number of BTSRs, press to enter the addressing state, and the BTSR indicator flashes. According to the BTSR serial number, the BTSR sensing surface is blocked in turn, and the indicator light stops flashing. After the setting is successful, the system will give a setting completion prompt box. If the setting fails, repeat the operation again.

"Disconnection Fault Tolerance Point" indicates the number of consecutive errors that the BTSR with yarn operation during operation allows continuous error. If the BTSR error alarm occurs frequently during operation, please increase the value appropriately.

"Twisted line fault tolerance" means that the yarn does not work during normal operation, but the yarn is moving, allowing the number of consecutive errors. If the BTSR error alarm occurs frequently during operation, please increase the value appropriately.

2.4.5 Device management

Equipment registration is required to install new machines or replace equipment; the equipment includes air valve circuit plate, Hub board (communication adapter board), three type 57 Step motor (upper cylinder density motor, lower syringe density motor, rubber density motor).

Note: After the registration is completed, be sure to check whether it works normally on the air valve and step motor test. If it is not normal, please log out and re-register.

The device registration is in ([F3] System Settings -> [5] Device Management), as shown below:

2018/06/29 15:28:47		<< Device	Manage >:	>	Retu	ırn
	No.	Devic	е Туре	Device	name	
[1] can registere	01	HUB	board	?		
	02	Vā	lve	?	ı	-
[2] AlreadyRegist	er 03	Type 57 s	tepp motor	?	,	
[3] Offline						
	_					
[4] Device Config	9					
	[F1] Device refresh	[F2] Device Regist	[F3] Device Logout	[F4] All logout		

A. New machine registration steps:

1. all equipment are cancelled: [2] Already Registered -> [F4] all logout

2018/06/29 15:28:59		<< Device	Manage >:	>	Retu	ırn
	No.	Devic	е Туре	Device	name	
[1] can registere	01	HUB	board	HUB Ł	ooard	
	02	Vā	lve	Valv	/e1	
[2] AlreadyRegist	er 03	Type 57 s	tepp motor	Upper Ste	ep motor	
[3] Offline						
	_					
[4] Device Config	,					
	-					
	[F1] Device refresh	[F2] Device Regist	[F3] Device Logout	[F4] All logout		

Device registration: [1] can registered -> [F4] all logout; after all the logout is completed, all connected devices will be displayed on the registrable interface, as shown below:

2018/06/29 15:28:47		<< Device	Manage >>	>	Reti	ırn
	No.	Devic	е Туре	Device	name	
[1] can registere	01	HUB	board	?		
	02	Vā	alve	?	I	
[2] AlreadyRegist	er 03	Type 57 s	tepp motor	?		
[3] Offline	_					l
[4] Device Config	9					▼
	[F1] Device refresh	[F2] Device Regist	[F3] Device Logout	[F4] All logout		

Select a device type, then press [F2] Device Registration, HUB board and air valve to complete registration.

When selecting three Type 57 Step motor registrations, a selection box will pop up, as shown in the figure below. At this time, the three Step motors have a positive and negative reversal operation. If the upper cylinder density motor is working, the upper cylinder density motor is

2018/06/29 15:28:52		<< Device	Manage >:	>		Retu	ırn
	No.	Devic	е Туре	De	evice name	2	
[1] can registere	01 d	Type 57 s	t Items	6	?		
			Upper Step	motor			
[2] AlreadyRegist	er		Elastic Step	o Motor			
			Down Step	motor			
[3] Offline			Exit				
	_						
[4] Device Config	9						
							▼
	[F1] Device refresh	[F2] Device Regist	[F3] Device Logout	[F4] / logot	All .it		

selected to register; the other two stepper motors are registered in the same way:

After registering an upper cylinder density motor, there are only two options left in the registration option, as shown below:



2.5 Language setting

Press to pop up the language setting menu in the main menu window, select the item and press [OK] to set language.

2018/06/22 15:29:		Language Set			<u> </u>
) English) 中文) 한국의-韩语			
[F1]Te	Ok		×	Exit	Version

2.6 System version

Press in the version page to enter the program update page

2.6.1 Program update

*Package file's extension is .OUT

* When the upgrade bar is grayed out, it means that the version in the upgrade package file does not match the current version. In this case, the corresponding program will not be upgraded.

	2018/06/29 15:29:44	<< Program U	pdate >	•> R	leturn	
Current	Туре	Version	Update	Update Version		
verison	System	A.MXTA.CP-D.1.6.11 2018-06-28		A.MXTA.CP-D.1.6.11 2018-06-22		
	HUB board	A.MHUB.PB.1.0.0 2017-09-01				upgradeable
	Valve1	A.MQFA.PB.01.00.00 2018-01-08		A.MQFA.PB.01.00.00 ₽018-01-08		verison
-L:anyterry system	Upper Step motor	A.BJ5C.PB-A.02.00.14 2018-06-27		A.B.15C.PB-A.02.00.14 2018-06-27	4	
-C: standard						Select to
system						update
		[F1]Load Packet [F2]Upd	late [F3]s Sv	System vitch		

When upgrading, first insert the USB flash drive with the upgrade package file, press the upgrade package file pop up the password box, enter the normal password and display the dialog, click the upgrade package file

(.OUT) and press the ^[1] key to load the upgrade package. After the loading is completed, the upgradeable version bar will display the corresponding upgrade program information in the upgrade package. If the upgrade file version is higher than the current version of the system, the upgrade selection box of the corresponding

program will be automatically selected (also manually selected). Press the ^{LLG} key again, the system will perform the corresponding upgrade process after entering the correct password, and display the corresponding prompt information. After the upgrade is completed, the version and the upgradeable version have the same information.

Press the very the system will switch to the Mind color screen system after entering the correct password. Robert model displays (Mind model displays "Main Menu-Mind C".

2.6.2 Import resources

Press in the version window and enter password to import resources. * Please try to import resource files when the system display has an error.



2.6.3 Disk information

Press 3

in the version window to view disk information.



When the disk capacity is 0, try to perform the corresponding formatting operation.

When one file is copied from the USB flash drive to the system, an error is occurred. Try to perform the corresponding formatting operation.

*Note : When formatting a disk, all corresponding files on the disk will be lost !

2.6.4 Error record

Press 4

s 4 in the version window to view error record details.

Up to 320 records can be stored. When the record is full, the subsequent records will overwrite the oldest ones.

			ErrorRecord	×	
					Record
Error	No.	Time	Message	📥 Total: 126	count
date	001	2018/06/29 14:47:27	Density Step1Inductor!	Fr 2018/06/00	61414
	002	2018/06/29 14:44:59	Servor Error!	To 2018/06/00	Select date,
Error	003	2018/06/29 14:42:38	Servor Error!		ignore 0
informa	004	2018/06/28 09:52:05	Servor Error!	✓ Alarm _■	item
tion	005	2018/06/28 09:49:58	Servor Error!		[]
tion	006	2018/06/22 14:46:45	Servor Error!	System Call	Error type
	007	2018/06/22 14:35:53	Servor Error!	Message	
Touch	008	2018/06/22 14:32:55	Servor Error!		Select
screen	009	2018/06/22 13:48:20	Servor Error!	Indiananah	certain
to flip	010	2018/06/22 13:41:29	Servor Error!	[F1]Research	information
page	011	2018/06/22 13:39:27	Servor Error!		
	012	2018/06/22 13:36:16	Servor Error!	[F2]Clear	
	Ĺ				
			ErrorRecord	×	
	No.	Time	Message	Total: 194	
	001	2018/06/29 15:29:47	Usb BABBLE error!	Fr 2018/06/00	
	002	2018/06/29 14:59:20	Raise Limit Sp	To 2018/06/00	
	003	2018/06/29 14:58:31	Machine Turn On	2010/00/00	
	004	2018/06/29 14:53:30	Machine Turn On	Alarm	
	005	2018/06/29 14:48:23	Machine Turn On		
	006	2018/06/29 14:47:47	Machine Turn On	V System Call	
	007	2018/06/29 14:44:48	Machine Turn On	Message	
	008	2018/06/29 14:40:55	Machine Turn On		
	009	2018/06/28 10:02:20	Machine Turn On		
	010	0010106100 10.00.111	Overlage second and shall	[F1]Research	

After clicking the date, the filter date setting window will pop up. When any of the dates is 0, it means ignore.

System version update!

Driver version update!

Machine Turn On

[F2]Clear

010 2018/06/28 10:02:14

011 2018/06/28 09:29:13

012 2018/06/28 09:28:57

		ErrorRecord	8
Press Message to	No. Time 001 2018/06/30 1 002 2018/06/30 1 003 2018/06/30 1 004 2018/06/30 1 005 2018/06/30 1 006 2018/06/29 1 007 2018/06/29 1 008 2018/06/29 1 009 2018/06/29 1 010 2018/06/28 09:49:58 012 2018/06/22 14:46:45	Start Date 1 2 3 4 5 6 7 8 9 0 Backspace Exit Servor Error! Servor Error!	Total: 128 Fr 2018/06/00 To 2018/06/00 ✓ Alarm System Call Message [F1]Research [F2]Clear
Select an alarm type the	en press to show cer	tain records, press	to skip it.
	Sele	ect Message	
	Alarm	System	Call
	3 Color Rubb Error! Back Detector! Left Detector! Jacquard needle bad! 5 Color Dositive Detector ! Shaking handle! Pressure! No Oil !		
	V Ok	×	Exit

2.6.5 Alarm note

Alarm 1-16 are for regular alerts, alarms after 16 are for special needs and special protections.

If there is none alarm around 1-16 types at all, please check:

- ➢ Earth line connection
- > Air valve circuit board alarm module

Alarm id	Alarm name	Alarm detail	Possible solution
1	8color		
2	Rubb Error!		
3	Back Detector		
4	Left Detector		
5	Jacquard needle bad		
6	6 color		
7	positive Detector		
8	Shaking handle		
	Pressure!	Air pressure abnormal	No air supply, or a problem
9			with the air pressure detecting
			device;
10	No Oil !	Lack of oil	Check for oil shortage in the
10			oil can
11	alarm11		
12	alarm12		
13	alarm13		
14	alarm14		
15	alarm15		
16	alarm16		
	Servor Error!	Abnormal alarm on the	1.The drive or motor is
		servo drive	abnormal;
17			2.Check the control line of the
			drive
			3.Check display motherboard
	Socks Drop	The following two	
10		situations will trigger	
18		alarm:	
		No socks were detected	

		when socks are dropped,	
		Or detecting falling when	
		no socks are dropped;	
	NO AC220V		Whether the connector (J16)
			in the lower right corner of the
			Hub board in the chassis is
19			connected;
			The 220V coming out of the
			transformer is abnormal;
			A problem with the Hub board
	ZeroNeedle!	When the coil is	a. Check the servo drive and
		synchronized, the number	motor, the motor encoder is
		of detected needles is	more likely to be bad;
		different from normal.	b. Check the servo and the
		Generally because, the	machine connected belt;
20		encoder signal of the	c. Probe signal interference;
		servo feedback is not	d. the display motherboard
		50,000 pulses (the	has a problem;
		encoder value can be	
		viewed on the servo test	
		interface).	
	CountNeedles!	There is a problem with	
		the encoder signal of the	
		servo feedback, or the	
21		encoder becomes smaller	
21		when the motor rotates	
		forward, and the encoder	
		signal of the servo	
		feedback is not 50000;	

	No Inductor !	Loop sync probe not	Check if the circle sync probe
22		detected for 2	is connected
		consecutive turns	
	BTSR(YarnBroken)!	BTSR detection	
23		function , the yarn is	
		broken during knitting	
	BTSR(YarnEnlace)!	BTSR detection	
24		function, unused yarn is	
		moving during knitting	
	BTSR Memory!	When the BTSR	
25		detection is on, the data	
25		of the BTSR learning	
		cannot be saved normally.	
	Density	The upper cylinder	a. Check if the machine is too
	Step1PosError!	density motor cannot be	heavy and the density motor
		rotated to the specified	cannot rotate normally. If it
		position.	occurs frequently, you can
			adjust the working current in
			the density motor test, adjust
26			to 2A, the maximum 2.2A, the
			greater the current, the greater
			the force; the locking current
			is generally 0.5A, you can
			adjust it to 0.8A, too large, the
			motor will be too hot, and
			easy to damage;
27	Density	Same as above	Same as above
	Step2PosError!		
28	RubbStepMotorErr!		Wrong heel turn position

29	NO BTSR!	NO BTSR when the	
2)		detection is on	
20	Action Err!	The action id in the chain	Modify the action id
30		is greater than 50	
21	StopKey!	The emergency stop	Release the emergency button
31		button is pressed	
	Temperature too	The computer control box	a. temperature is too
	high!	temperature in the chassis	high;
32		exceeds 75 °C	b. the temperature detection
			chip on the Hub board has
			a problem
	RollbackPos!	The forward or reverse	If this alarm often appears, try
33		position is too large, the	to update a set of servo drives.
		machine overrushed	
	Total Needles!	The total number of	
24		needles in the chain file	
34		and machine parameters	
		is inconsistent	
	HubCommunication	A communication	a. Check whether the
	error!	problem with the display	connection between the
25		board and the hub board	motherboard and the Hub
35		in the chassis control box.	board is connected;
			b. Replace the Hub board;
			c. Replace the display board;
	Servo not run!	The encoder has no signal	the machine suddenly gets
		or the machine is stuck	stuck, but the servo does not
36			alarm for 3 seconds, the
			computer will alarm.
			In this case, it is best to check

			the machine and servo motor:
			Go to the servo test window,
			turn the motor to see if the
			encoder value changes. If
			there is no change, the servo
			drive may be broken or the
			display board may have a
			problem. better to update a set
			of servo drives (including
			control lines and motors) to
			test and determine which part
			is damaged;
	Heel Change color	Wrong heel main	The main shuttle or the
37	Error!	shuttle change	change circle is not set
		parameters	
	Action Undo!	Air valve action does	Generally, it will only appear
		not operate	in the heel part, indicating that
			the corresponding valve
			action angle is set incorrectly.
38			The corresponding valve
			number is in the brackets, and
			the position of the non-heel
			actions must be smaller than
			the total number of needles.
	No density motor 1!	No upper cylinder density	
39		motor detected in the	
		sock leg	
40	No density motor 2!	Same as above	
41	Expansion motor	The computer does not	

	except	detect the extended motor	
		board	
42	KTF	KTF rubber conveyor	
		alarm	
43	Btsr Comuc Err!	The BTSR is note	
		detected. The number in	
		the bracket indicates the	
		corresponding BTSR id.	
44	220Vfuse	The 220V fuse on the	
		Hub board is broken. If	
		the fuse is broken, the oil	
		pump and the chassis fan	
		will not work properly.	

Note:

d. yarn-change deceleration:

System 2 yarn-change deceleration is controlled by the control bar. The 1st column: the yarn-change deceleration 1 in the machine parameters; The 2nd column: the yarn-change deceleration 2 in the machine parameters; 2 columns at the same time: the current speed is reduced by 100;