
Version statement

Our company reserves all rights.

The content of this product user manual refers to relevant legal and industry relevant legal and industry standards. Have any questions about the content provided by our product when using it, please consult with the salesperson who purchased the product, call the customer's hotline, or contact our email address

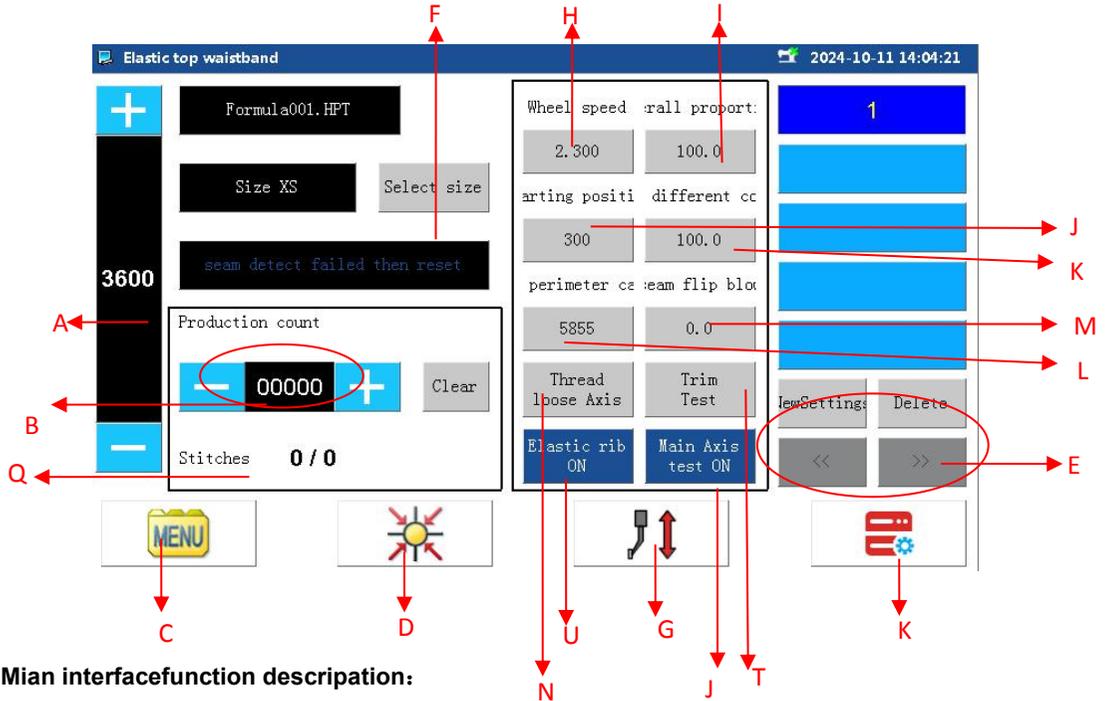
Our company reserves the right to modify the products and product specifications in this manual without prior notice.

Our company has the patent rights, versions, and other intellectual property rights of this product and its software. Without authorization, this product and its related parts shall not directly or indirectly be copied, manufactured, processed or used.

Our company has the copyright of the user manual, and without permission, we are not allowed to modify or copy all or part of the content of the user manual

CHAPTER 1: SETTINGS AND FUNCTIONS RELATED TO LARGE VERSION STYLE ..	1
1.1 SEWING INTERFACE	2
1.2 NEW STYLE	3
1.3 DELECTE STYLE	3
1.4 PRODUCTIONCOUNT	4
1.5 INPUT DEACTION	4
1.6 SEAM HIGH POSITION	5
1.7 DIFFERENTIAL MOTOR	5
1.8 SEAM FLIP AIR BLOW	6
1.9 EXPAND VALUE	7
CHANPTR 2: DEVICE DETECTION	8
2.1 EQUIPMENT INSPECTION	8
2.2 MOTOR DEBUG	9
2.3 CYLINDER DEBUG	9
2.4 SERVO SPEED DETECTION	10
2.5 MAINAXLE MOTOR ANGLE CORRECTION	10
CHAPTER 3: SYSTEM UPGRADE AND FUNCTIONS	12
3.1 SYSTEM UPGRADE MODE	12
3.2 FUNCTIONMODE	13
CHAPTER 4: SYSTEMPARAMETERS	14

Chapter 1: Setings and functions related to large version style



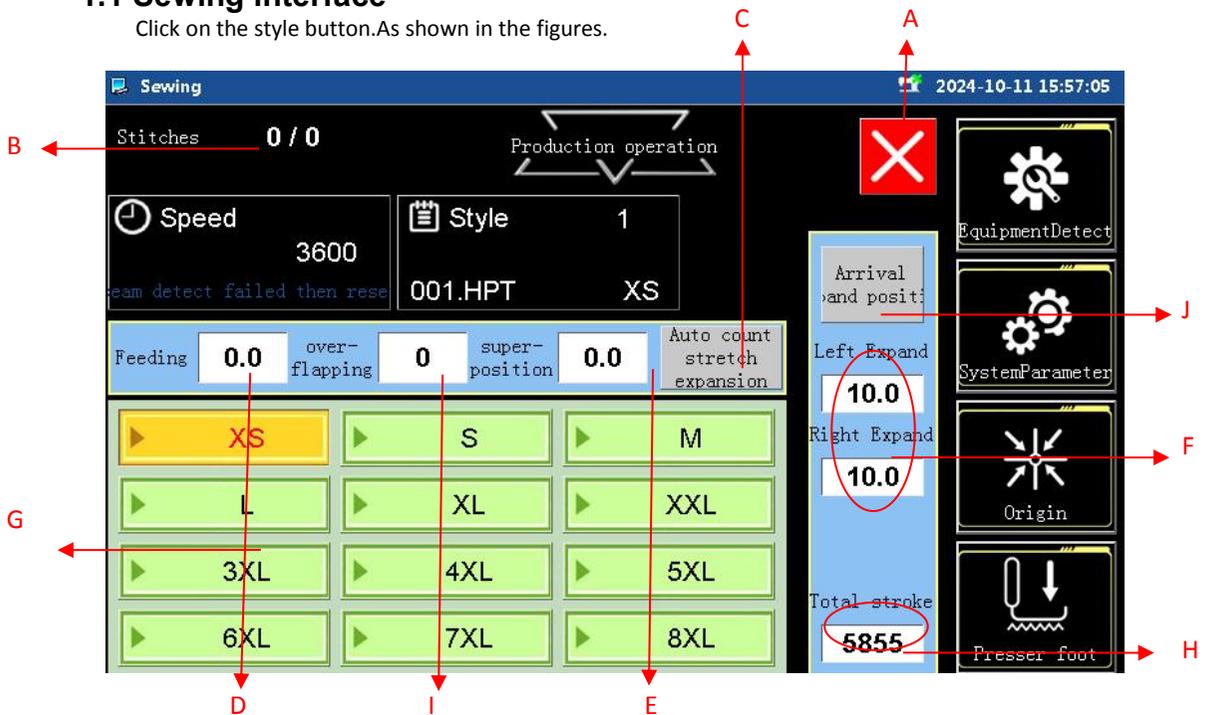
Mian interfacefunction description:

order	function	content
A	Speed	Set running speed prompt text displays
B	Production count	Count addition/subtraction,clear to zero,click to enter the count seting interface
C	System para	Click to enter the system para
D	Origin	Click o button back to origin
E	New and Delete	Create and delete style
F	Style information and sewing iterfacee	Click on the style number and size to enter the sewing interface
G	Presser foot	Lift /Raise Presser Foot
H	Wheel speed	Set wheel speed value
I	Automatic perimeter calculation	Set to obtain automatically calculated perimeter values
J	Overall proportion	E overall scale value
K	Segmented different coefficient	Different proportions of diplay breack

order	function	content
L	Automatic perimeter calculation	In the Expand value inftere
M	Seam filp blow	Set Reverse Sitich Blowing Function
N	Thread loose Axis	Click on the threading and axi loosenging function
P	Main Axis test OFF\ON	Main Axis test OFF\ON
Q	Sititch	Click to enter the device detection
R	Style List	Style List,choose a larger style
T	Trim test	Click on the thread cutting test function
U	Elastic rib OFF\ON	Elastic rib OFF\ON

1.1 Sewing interface

Click on the style button.As shown in the figures.



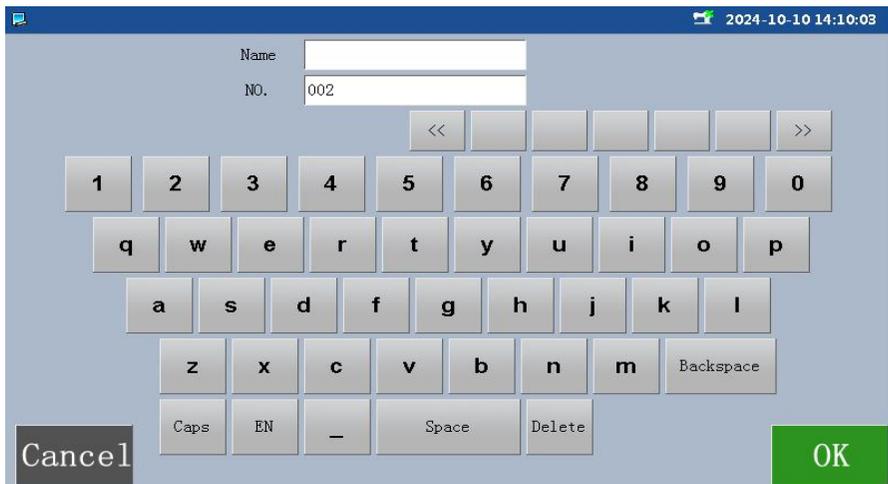
Function description:

order	function	content
A	Exit	Click to eixt and enter the main interface
B	Stitches	Display stitch count
C	Auto count stretch expansion	Click to automatically count and expand the self setting value
D	Feeding	The feed function controls the movement of materials within a system key feature include.

order	function	content
E	Super-position	Setting Super-position value
F	Left extension, right extension, down extension	Set left, right, and down values
G	Size Selection	There are twelve different sizes available
H	Total journey	Set the total stroke, enter the expansion corresponding value.
I	Over-lapping	Set the number of stitches
J	Arrival expansion position	Will set the expansion value calculation to reach the expansion.

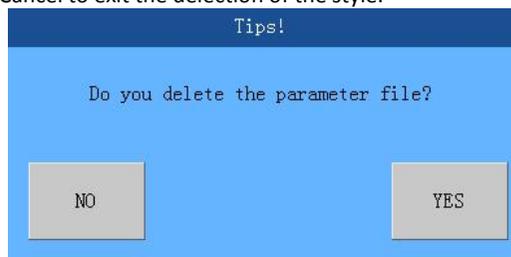
1.2 New style

Click the button "New Settings" on the main interface to enter the interface and set the style and number, Click Cancel to go to Style interface. As shown in the figures.



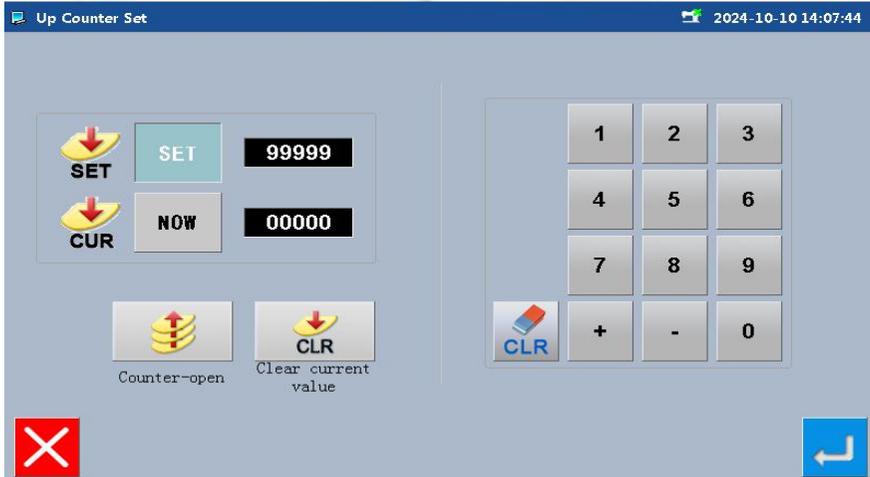
1.3 Delete Style

Click the delete button on the main interface and a prompt box will pop up. Click to confirm the successful deletion of the style, click Cancel to exit the deletion of the style.



1.4 Productioncount

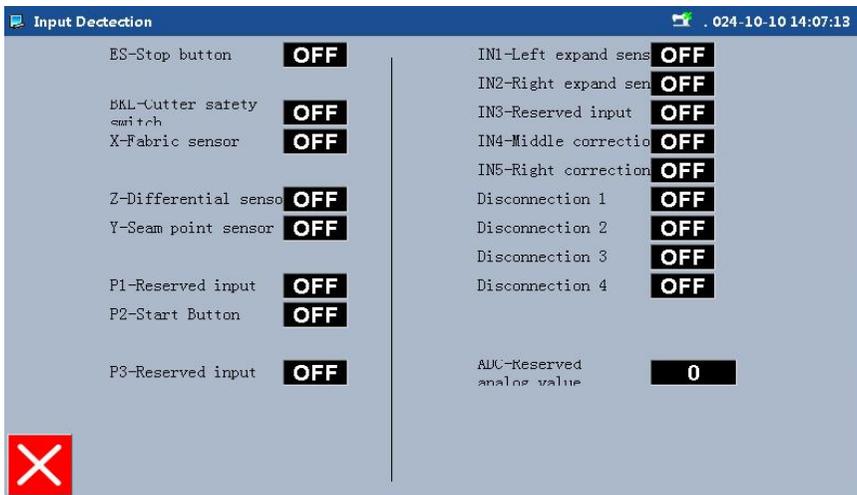
Click the button on the main interface called Production count value,enter the countup setting interface.As shown in the figures.



- 1.Production count setting value (total count setting).
- 2.Production Count Current Value Setting.
- 3.Counter function switch button.
- 4.Clear current value button.

Set target count:In the setting area,enter the desired production traget count ,After inputting the number ,click the confiremation button to initiaiate the counting producess during production.It is essential to ensure that the target number you enter aligns accuately with the required prouction volume,thus maintaing the efficiency and accuracy of the manufacturing process.

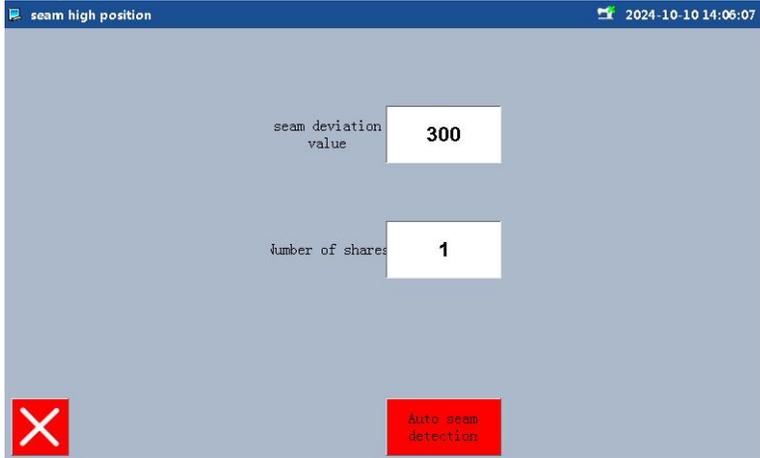
1.5 Input Deaction



Click the input deaction button on the main interface the to enter the signal detection interface.Ask for communication to cpntrol signal off/on.As shown in the figures.

1.6 Seam high position

Click on the text box name start point on the main interface to enter the automatic expansion.As shown in the figures.

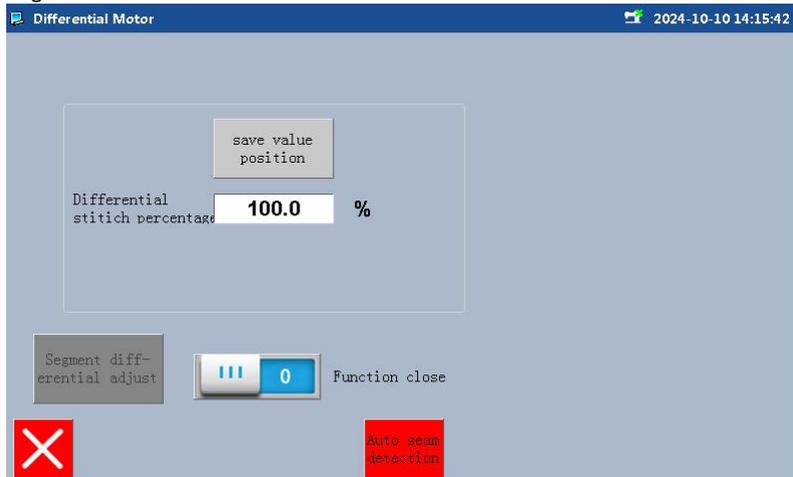


Contain:

- 1.seamdeviation value.Set seamdeviation value.
- 2.Number of shares,Setting Number of shares.
- 3.Auto seam detection,Click to automatically cjeck the stock function.

1.7 Differential motor

Click on the EditText box “Differnt Moto Prortions ” o themain interfaacet ent the sttock conversion.As shown in the figures.



- 1.Set target position:
- 2.unction:input the sepecific percentage value of the psotion you want to set.Description:For example.if you want the motor to operate at 50% differentail needle distance you need to input 50.This will adjust the motor to the specifed target psotion to achieve the desired operational eeffect.
- 2.Automatic stock Detection:
- 3.Function:Click the “Automatic stock detection” button to active the automatic stock detectetion feature.
- 4.Description:This function allows the system automatically detct the currnet stock position ,ensuring that the device is in the correct location.Once activiated,the system will perform necessary measurements and adjustments.
- 5.Toggle switch button:1
6. Function:Clicking this button will display “1”,enabling the button segment differential adjustment feature. Description:After pressing this button,the system will show “1”,indic

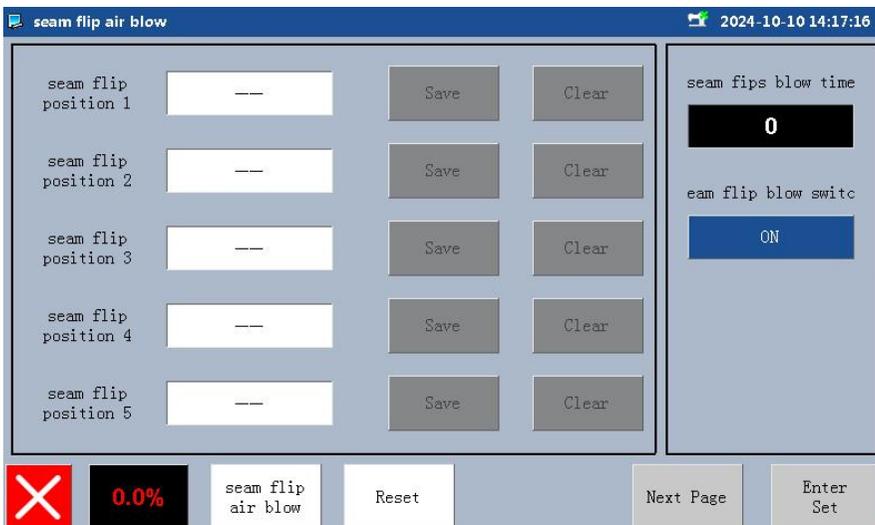


Interface features:

1. Click to enter settings. A prompt will appear asking if you want to proceed to settings where you can configure various options.
2. Differential spacing setting: Set the differential spacing to a specific size. Click on the differential spacing input field to enter the appropriate numerical value.
3. Position ratio setting: Based on the current position displayed by the main controller, set the position ratio for each point.
4. Restore default ratio button: Click to restore the default position ratios.

1.8 Seam Flip Air Blow

Click on the edit text “seam flip air blow” on the main interface to enter the seam flip air blow interface. As shown in the figures.



Contain:

1. Click on [Enter Settings] to enter the settings button. Click this button to enter the settings interface, where users can save the settings parameters.
2. Go to position 1-5 for blowing air and reversing: Click to save position value.
3. Save button : Click this button will retrieve the current stock position and save it to the corresponding location wake up and remove the corresponding set reverse position.
4. Display position percentage: Set to display one hundred and forty percent of the current stock position to allow users to understand the current work progress.
5. Click on the reverse blowing switch: Users can set the function of starting or prohibiting reverse blowing
6. Inverted blowing duration setting: Users can set the blowing duration and input the required numerical value through this setting. Click on reset and blow air to reset to the default value.

1.9 Expand value

Click the " automatic perimeter calculation value" button on the main interface to enter the corresponding value expand interface

1. Automatic detected value: This feature allows users to input and display the total travel value that needs to be adjusted. It provides real-time feedback on the current settings, enabling precise control over the system's operation.

2. Start Detection:

This button initiates the motor's detection process. Once pressed, it will begin to measure the specified values, allowing for accurate adjustments based on the detected parameters.

3. Start Parameters:

This function allows users to save the parameters that have been deemed suitable after adjustments. By saving these settings, users can ensure that the system retains the optimal configurations for future operations.

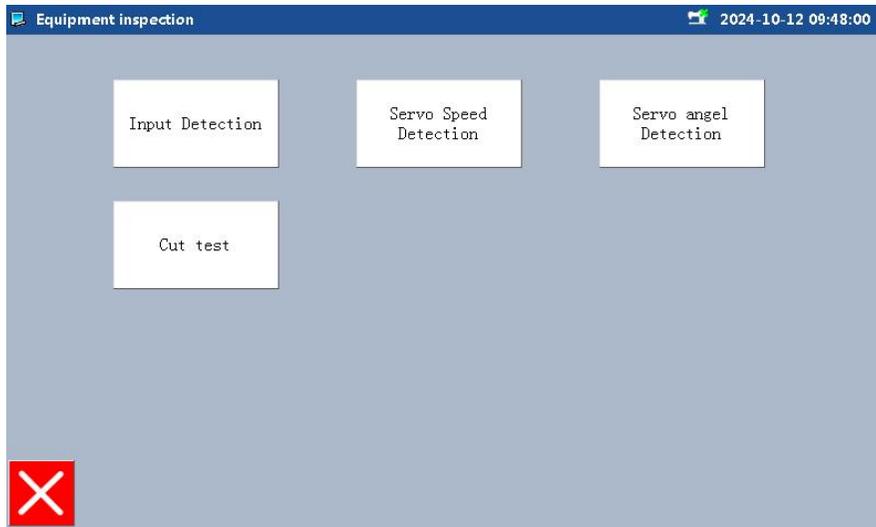
4. Reset button:

This reset button restores the system to its default settings. This is useful for reverting any changes made during the adjustment process, allowing users to start fresh if needed.



Chaptr 2: Device detection

2.1 Equipment inspection



Testing interface of tje testomh interfce usage:

1.Enter the device testing interface:

Function description:

users can center the [auto dirnk 1]device detecion description interface through the motor debugging interface through the motor debugging interfacee

2.Input Signal Detection

Function description:

This function is used to detect the status of input signal to ensure that the system receives the correct signals.

Usege Steps:

1.1 In the testing interface,locate the "input signal detection" option.

1.2 Click on this option ,and the system will begin detecting the input signals.

1.2 Observe the signal status displayed on interface to confirm whether the signals is normal.

3.Spindle Speed Detection

Function description:

This function is used to detect the spindle's rotation speed to ensure that the spindle operates within the normal range.

4.Spindle Angular Veclocity detection:

Function description:

This function is used to detec the angular veclocity of the spindle to ensure that the angular changes of the spindle meet expectatios.

5.Cutter Test

Function description:

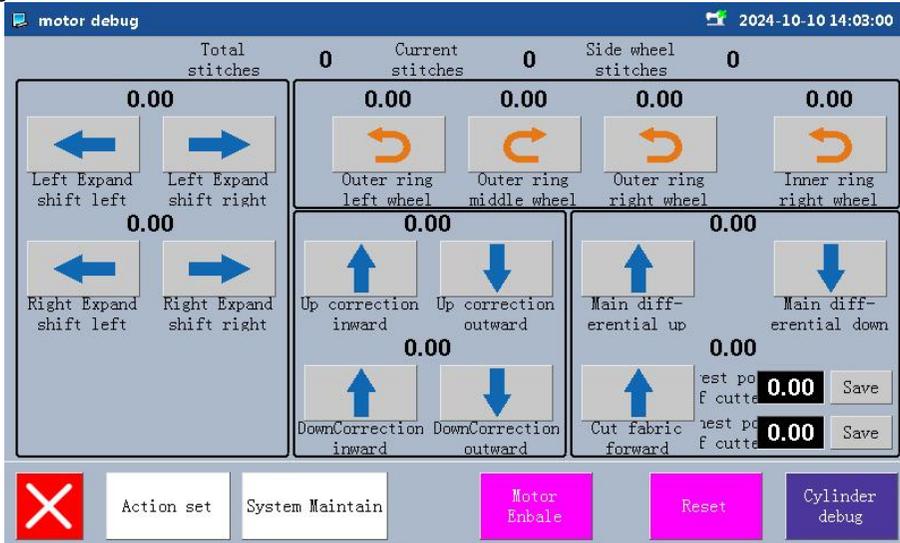
This function is used to test the working status of the cutter to ensure that it can cut normal.

6.Exiting the Testing interface:

Confirm the exit operation,and the system will return to the main interface.

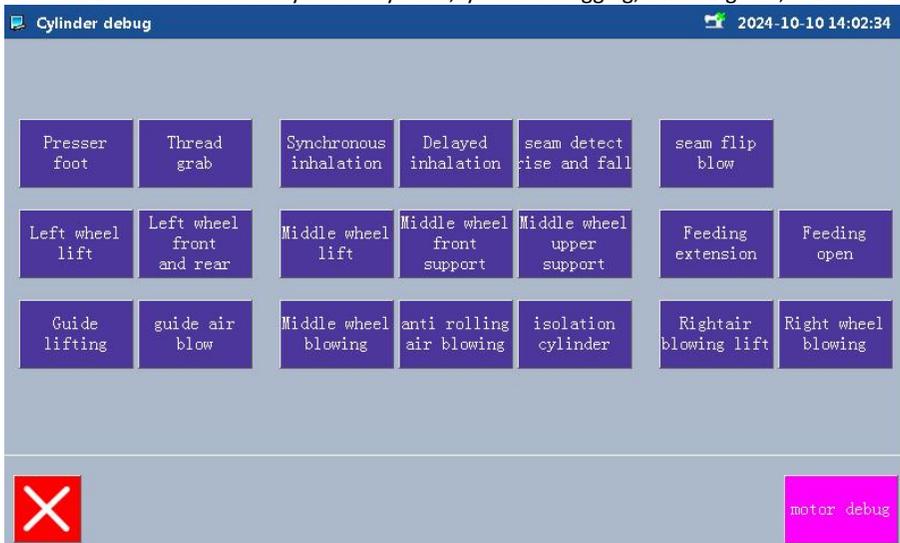
2.2 Motor debug

Click the button named Device Detection on the main interface to enter motor configuration interface. In this interface, functions such as motor debug, thread cutting cutter testing and reset can be achieved. As shown in the figures.



2.3 Cylinder debug

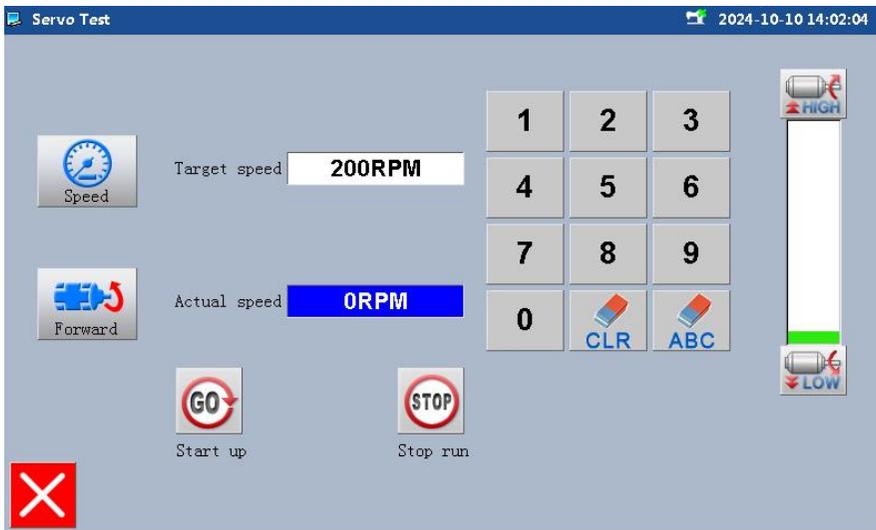
Click the motor debugging interface [Cylinder debug] button to enter the cylinder debugging interface. This interface can realize the functions of cylinder key state, cylinder debugging, rewinding test, etc. As shown below.



2.4 Servo Speed Detection

Click the “Servo Speed Detection” button on the motor debugging interface to enter the spindle testing interfaces. On this interface, you can debug the spindle speed. As shown in the figure.

1. Display the actual speed and show the current spindle's actual speed (RPM).
2. Set speed: Allow the use of input or buttons to reach the target speed.
3. Control buttons: Basic operation buttons such as start, stop, reset, etc.
4. Alarm: If a safe range is set, an alarm message will be displayed.
5. Adjustment and optimization: If it is necessary to adjust the spindle speed, the target setting value can be reset.



2.5 Mainaxle motor Angle Correction

Click the button named “Servo angle Detection” on the device detection and debug interface to enter Mainaxle motor angle correction. This interface allows for mainaxle motor Angle Correction. As shown in the figure.

1. Determine necessary safety measures before making adjustments, install the sensor correctly onto the spindle and reference point. Confirm that they are secure and in the correct position. Exactly open the interface and complete the initialization settings;
2. Find the “Spindle Motor Release/Lock” button on the interface. Clicking this button can release or lock the state, allowing it to move freely and conveniently.
3. Conduct measurements, rotate the spindle by a certain angle, read data from multiple positions
4. After adjusting to the satisfactory position, find “Spindle Motor Lock” on the soft armor interface to prevent it from shifting during operation.
5. Final validation, perform a complete measurement again to ensure that all parameters are within the allowable tolerance range.

mainaxle motor Angle Correction 2024-10-10 14:01:35

	Current electrical Angle	<input type="text" value="000"/>	
	corrective Mechanical angel	<input type="text" value="000"/>	degree
	main axle original singal	<input type="text"/>	

	Needle rod highest position calibration	<input type="text" value="000"/>	
---	--	----------------------------------	--

	Take-up-lever highest position calibration	<input type="text" value="---"/>	
---	---	----------------------------------	--

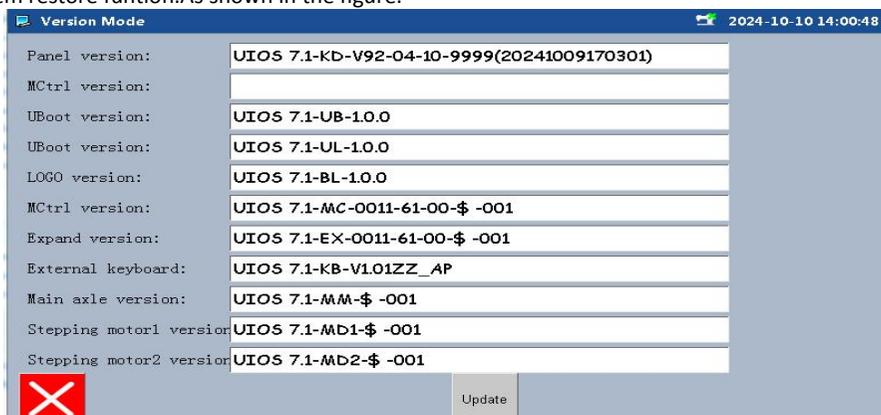
  

Chapter 3: System upgrade and functions

3.1 System upgrade Mode

Click on the ttesting interface 【System update】 -> 【Upate】 ,enter the Version Mode interface.Used to view the version number of the control ststem.For example: MCtrl version、 Panel information、 LOGO version、 Stepping motor1 version ,etc information.

Click the upgrade btton to enter the system upgrade interface.This interface allows for version upgrader and system restore funtion.As shown in the figure.

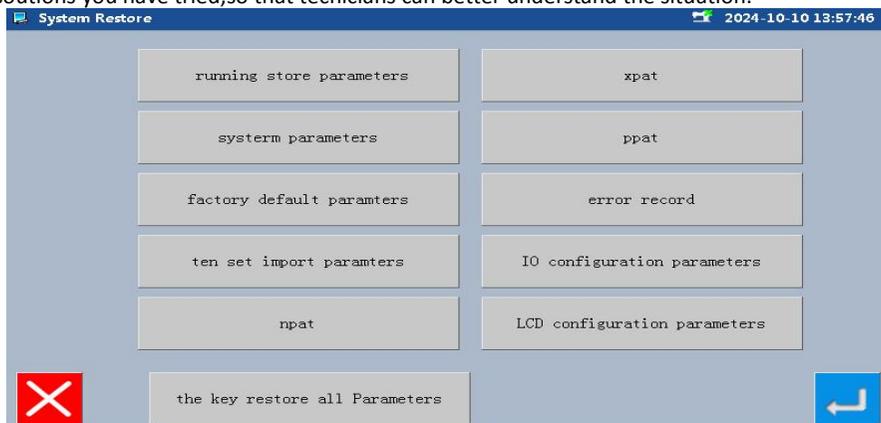


1. **Upgrade:** Serch for USB drive upgrade files and select the upgraded system,Click on the oneupgrade button to proceed with the updagrde process.Don't turn off the power during the upgrade process.Afer upgrading , a prompt box will pop up ,please restart the power supply.

2. **Restore:** Click the one click recovery buttonto enter the system restore.As shown in the figure.You can restore all parameters with ine click or select the parameter items that need to br restored.Restore the operation to the original default values.After the system is restored ,a prompt box will pop up,please restart the power supplies.

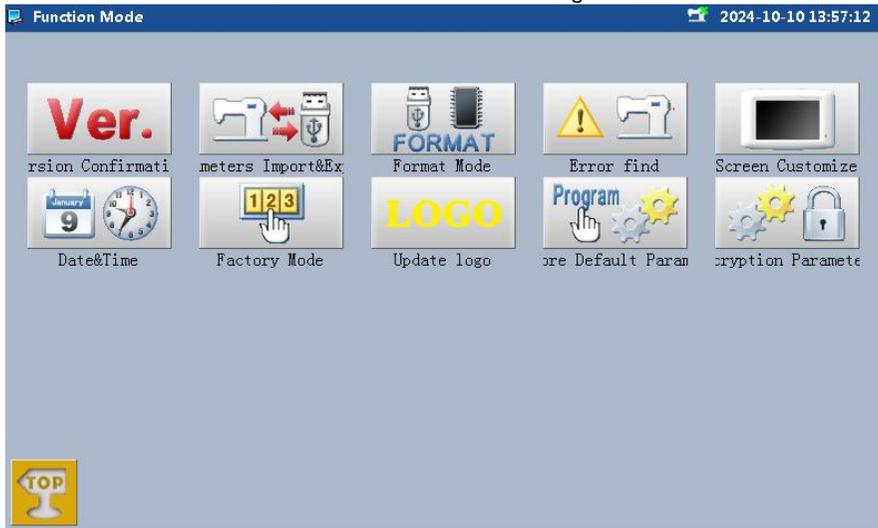
3. **System restore:**Click the [the Klik retstore] button to enter the sysytem retore interface ;As showm in the following figureinterface; As show in the follwing figure.You can restore all parameters with one click ,or select the parameter items that needs to be restored.After the operation,restore to the orginal default value.After the system restoration is completed,a prompt box will pop up,please restart the power supply.

4. **Troubleshooting:** if the upgrade issue persists.You can search for the technical supprot contact information provided by the company.Please make sure ti provide a detailed description of the proble you encountered and the soutions you have tried,so that technicians can better understand the situation.



3.2 Functionmode

Click on the motor debug 【system Maintain】 -> 【Function mode】 button,enter the function mode interface.This interface is divided into 10 modules.As shown in the figure .



Chapter 4: Systemparameters

Parameter List:

Parameter Name	Default value	Range
Syncscale (1 Set)		
Side wheel sync scale	815	500-2000
Left wheel sync scale	863	500-2000
Middle wheel sync scale	9.9	500-1600
Middle wheel cylinder switch	ON	ON\OFF
Left Wheel lifting switch	ON	ON \ OFF
Left wheel cylinder switch	ON	ON \ OFF
Put on elastic (2 Set)		
How long to extend after retracting close and open	350	1-30000
After the end of idling and the completion of bone collapse and a amount of time	100	
Sewing action (3 Set)		
Right wheel corection in the later stage of sewing	Stop correction	External correction
Sewing position 1	6000	1000-10000
Sewing position 2	7000	1000-10000
Sewing position 3	7500	1000-10000
Outer circle right wheel outward correction speed	0	0-9999
Speed of center corrention position 4	1	0-9999
Direction of action for position 4 of center correction	Outward	Outward、Indward
Correction method	Convential	Convential , After the press foot falls
Trim sensor (4 Set)		

Parameter Name	Default value	Range
Whether the disconnection 1 is effective	Valid	Valid , Invalid
Whether the disconnection 2 is effective	Invalid	Valid , Invalid
Whether the disconnection 3 is effective	Invalid	Valid , Invalid
Number of breken thread 1 detection	50	1-1000
Number of breken thread 2 detection	50	1-1000
Number of breken thread 3 detection	50	1-1000
Number of breken thread 3 detection	50	1-1000
Trim (5 Set)		
Whether the hread trimming cylinder is valid	Invalid	Valid , Invalid
Delay from thread trimming opening to closing	100	10-3000
Whether the hook line is effective	50	10-3000
The delay from hooking close to subsequent action	Valid	Valid , Invalid
Securty switch detection alarm	120	10-3000
Counter (6 Set)		
Sets function of Up counter	ED	--, ED, CY
Sets function of DOWN counter	ED	--, ED, CY
Method of clearing(UP) counter setting value	--	--, IT, CL
Method of clearing(DN) counter setting value	--	--, IT, CL
Initilize UP/DN counter or not at power on	HOLD	HOLD、 CLEAR
Prohibition of UP counter current value correction	ALLOW	ALLOW、 FORBID

Parameter Name	Default value	Range
Prohibition of DOWN counter current value correction	ALLOW	ALLOW、FORBID
ON/OFF of stitch counter function 1	OFF	OFF、ON
Setting for warning stitch number of counter 1	1000	0-9999
ON/OFF stitch counter function 2	OFF	OFF、ON
Setting for warning stitch number of counter 2	1000	0-9999
Advanced para (7 Set)		
Servo enable sinal delay	100	100-999ms
Time delay after servo ban	100	100-999ms
HALT Switch type	NO	ON、NC
Trim switch type	NO	ON、NC
Pneumatic check switch type	NC	ON、NC
Set language(8Set)		
Language	English	Chinese 、 English 、 Vietnam、Korean、Turkish
Set language(9Set)		
Whether the cutter is valid	Effective	Effective、Invalid
Opening timing of the cutter	1800	0-9999
Reserved Para	3000	200-3500
The position where the cutter is lifted	450	1-3000
Number of stitches that cutter stops in advance	1	0-50
Roller adjustment(10 Set)		
Speed of idling when start	600	50-600
The empty rotate speed in boneless postion	50	1-100
Roller adjustment(11 Set)		

Parameter Name	Default value	Range
Start slow stitches	5	0-15
Start slow stitch speed	1000 rotate	200-4000
Fine-tuning the speed the left wheel slow start	100%	20-200
Fine-tuning the speed the right wheel slow start	100%	20-200
Tail stitch position(12 Set)		
End slow stitches	5 stitches	
End slow stitch speed	1000 rotate	200-4000
Fine-tuning the speed the left wheel slow end	100%	20-200
Fine-tuning the speed the right wheel slow end	100%	20-200
Panel set(13 Set)		
Buzzeraction can set when fault	Once	
Null Move display or not display can be set	Display	Display, HIDE
Select the display area of pattern	Clamp	Clamp, ACT_PAT
Whether do support TPAT?	NO	NO, YES
Display Trim icon in main window	Show	Show, Hide
Pat ZOOM Multiple	1	1-25
Setting zoom style	Current Stitch	Current Stitch, origin
Sound Setting	ON	OFF, ON
Communication Setting	OFF	
Sound volume setting	100	0-100
Dircetion key and motor runls direction is unanimous or	unanimous	Unanimous, reverse
Whether save pattern to USB disk when save pattern to memory	NO	NO, YES
The display type of speed value	speed	Gear, speed
Whether suport long file name	Support	Don' t, Support

Parameter Name	Default value	Range
Whether support previous file name	Not	Not, Use
Whether display empty stitch	Don't	Don't, Support
Next dialog mode	Normal mode	Normal mode, test Mode
Pat zoom way	Main Control	Main Control\Panerol
Main interface set(14 Set)		
Display language of icon on the left of main interface	English	Chinese , English , Vietnamese, Korean, Turkish
Receiving action(15 Set)		
Whether stacker is Used	Not used	Use, Not Use
Lifting distance of stacker	3000	100-30000
How long does the elastic band bracket retract after stacker descend	2000	20-20000
Automatic Start(16 Set)		
Whether to start sewing automatically	no automatic	no automatic, Automatic start
Delay time of automatic start	1000	100-30000
Left expansion and right expansion(17 Set)		
Whether the left expansion origin sensor is useful	Valid	Valid, Invalid
Left expansion range limit	1130x0.1	0-32767
Right expansion range limit	7700x0.1	0-32767
Seam flip blow(18 Set)		
Seam flip blow switch	ON	OFF, ON
Seam flip blow time	0ms	0-500m
First strand position switch	OFF	OFF, ON
Continuous(19 Set)		
Does it not stop during continuous testing	Stop	Stop , Continuous operatiuon
Delayed inhalation(20 Set)		
Delayed inhalation time at the begin	200	1-1000