MANUAL FOR AUTOMATIC CUFF COVERSTITCH MACHINE(SINGLE CUFF/ WHOLE PIECE)



Preface

1. Thank you for purchasing our products, be sure to read and understand the instructions carefully before use so that you can quickly grasp the correct way of use. Incorrect use will result in abnormal operation, which may cause malfunction or reduce the quality of the product. If you have any questions about this manual, please contact us.

2 Precaution

- 2.1 It is forbidden to start the machine until you are aware of its proper operation and safety rules. For untrained or unauthorized personnel, it is forbidden to use the machine.
- 2.2 Before using the machine, you must read this manual carefully and understand all contents and instructions.
- 2.3 After ensuring that the machine has been installed and all necessary commissioning has been completed, you can operate the machine
- 2.4 Before starting, it is important to make sure that all surface of the machine are free of any tools or equipment.
- 2.5 If the power supply is interrupted, the inside of the machine or appliance should not be touched.
- 2.6 The operator should not leave the working area of the machine during its operation
- 2.7 No touching of sensors and moving parts during machine operation
- 2.8 When electrical control circuits need to be inspected and repaired, they must be handled by an electrical professional.
- 2.9 Do not modify the machine or install unauthorized equipment, cutters or peripherals without our authorization to avoid danger.
- 2.10 If you are unable to solve the problem in accordance with this manual, please consult us or an authorized dealer, and unauthorized operation is prohibited.
- 2.11 Do not use the machine under unspecified environments and conditions

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Equipment introduction

This equipment is designed for single-tube cuff sewing (adult garments) on round-neck shirts. When paired with a two-needle, three-thread left-side trimmer coverstitch machine, it enables fully automated sewing processes including automatic edge folding, automatic stitching, and automatic thread trimming.



Major components



The sewing table assemble



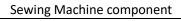
The front wheel component



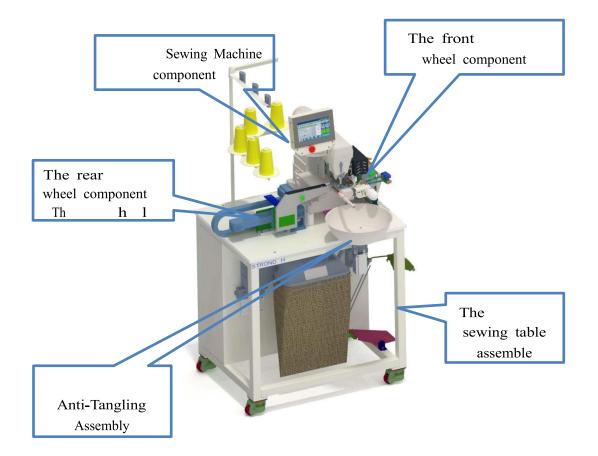
The rear wheel component



Anti-Tangling Assembly







Operation interface buttons and their meanings

1. Home



Light fabric mode: Switch, click to switch heavy material mode.

Tension mode: Switch, Click into it to change the mode in the tension mode or position mode, in the tension mode the rear wheel stretches to the set tension stop, and in the position mode, the rear wheel stops to the set position.

Alternate Seaming: Switch, click to turn ON/OFF. When enabled, cycles between seamed and non-seamed operations.

Cutter ON: Switch, click to switch on or off. Independent cutter cutting action after opening.

Lock-thread ON: Switch, click to switch on or off. (Only for the lock thread function of the machine head).

Test mode off: Switch, Click into change the mode on/off, that when it is on test mode, now in testing mode, sewing machine needle can't work; the test mode should be off when the machine is sewing normally.

Seam switch ON: Switch, Click into to change the mode on/off, the switch on when sewing fabric with seam; switch off when cylindrical shirt without seam.

Seam reserve ON: Switch. Click into to change the mode on or off, that is to switch seam reserve or not.

Seam reserve increase pressure ON: Switch. click to switch on or off. Open to increase the seam reserve blow.

Turntable ON: Switch. Click to turn on or off. When on, the turntable activates.

External trimming ON: Switch. Click to switch on or off.

Size: Display Settings, click size no to change size no.

Tension set: Display Settings, click set tension to set the tension value of the current material when sewing, reach the set value in tension mode to start sewing, adjust the settings according to different material size elasticity

Actual tension: Displays the current actual tension value.

Setting needle speed: Display Settings, setting the sewing machine speed needs to match the sewing machine electric control.

Current needle speed: Display the actual speed of the sewing machine.

Needle gauge setting: Display Settings, set needle gauge when machine is sewing, front and rear wheel feeding and sewing machine matching needle gauge, used to ensure that sewing and sewing machine synchronization

Start sewing fine adjustment: Display Settings, fine adjustment of start-sewing-time needle gauge.

Overlap-sewing fine adjustment: Display Settings, fine adjustment of overlap-sewing-time needle gauge

Total output: Display the current processing quantity; Clear: Button long pressing quantity to clear and quantity is 0.

Presser Foot Lift: Button Click to raise or lower the presser foot.

Sewing: Button Click to perform a test stitch over a short distance.

Warning message: Click into enter the alarm information display.

Sewing abnormal: Click into display sewing exception information

Start (No Seam): Switch - Click to start the device

Start (With Seam): Switch - Click to start the device

Button Start Mode: Long press to switch to eyelet detection auto mode

Size selection: Button Click to enter the size selection interface.

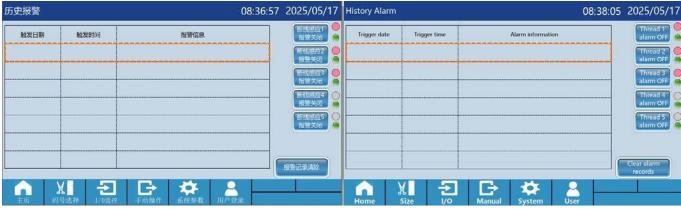
Monitor I/O: Button Click to enter the I/O Input/output monitoring interface.

Manual operating mode: Button Click to enter the manual operating mode interface.

User login: Button Click to enter the user login interface

System parameters: Button click to enter the System parameters interface.

2. The alarm information enters interface



Historical alarm information can be viewed.

On the right side, press and hold the 5 disconnection alarm switches to switch the disconnection alarm on and off.

3. Sewing abnormal enters interface



Overlap-sew deviation: can adjust the difference of overlapped thread, enter the end-sewing stitch and start-sewing stitch left or right value, and press the confirm button, the system will automatically correct the difference of overlapped thread. Edge cutting width deviation: The width of the cutting cloth edge can be adjusted. For example, if the actual cut edge size is too wide, enter the size of the cut edge width and press the confirm key. If the cutting cloth edge is too narrow, enter the size of the cutting edge is too narrow and press the confirm key.

4. Size select interface



Size setting

Size No.: Button Click to select sewing hemming type;

XX S Setting: Click the drop down arrow to select the sewing hemming size;

Move to material loading position Setting: Displays the distance from the loading position.

Writing current: Button Saves the current location.

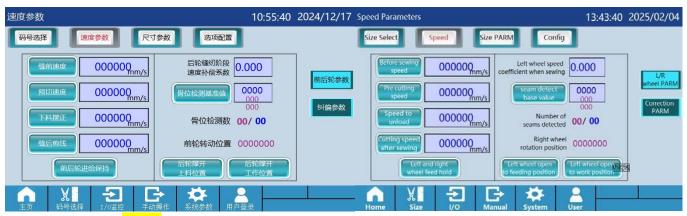
Move to working position Setting: Displays the distance from the working position.

Writing current: Button Saves the current location.

Learn Material / Executing learning: Button Access the material learning function.

Arc sewing function/Parameter setting: Button Enter parameter setting.

5. Speed parameter list



Before speed sewing Setting: rotation speed of front and rear wheels before sewing.

Pre-cutting speed Setting: the feeding speed of the front and rear wheels when pre-cutting is performed before starting the sewing machine.

Material receiving set right Setting: the feed speed of the front and rear wheels before receiving the material after sewing.

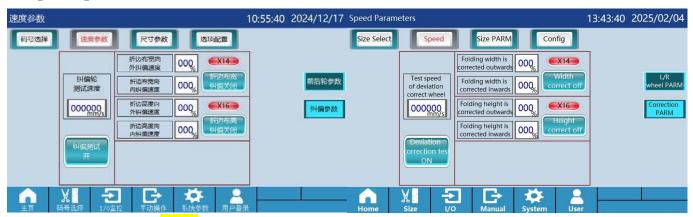
Trimming after sewing Setting: After sewing, perform the trimming of the material, the feeding speed of the front and rear wheels.

Left and right wheel feed holding Button: This button is the point and continuous switch key of the above four keys, used to adjust the testing.

Seam detect base value Setting: Setting the zero position of seam position, put the material on the seam position detection roller, press this key, the seam position detection roller will automatically fall, and the value below the right side will automatically clear to zero. Pulling the material so that the seam position is under the detection wheel, and the displayed

value below the right side is the seam position height. Take 1/2 of the displayed value and input it above the displayed value. The seam position detection setting is complete.

6. Speed parameter interface



Deviation wheel test speed setting: Sets the reference value for deviation correction speed.

Deviation test ON button: Master switch for deviation correction function test

Outward hem width deviation correction speed setting: Sets the speed multiplier for outward deviation correction during finishing phase and sewing phase (when middle sensor is not exposed)

Inward hem width deviation correction speed setting: Sets the speed multiplier for inward deviation correction during finishing phase and sewing phase (when middle sensor is not exposed

Outward hem height deviation correction speed setting: Sets the speed multiplier for outward deviation correction during sewing phase (when middle sensor is exposed

Inward hem height deviation correction speed setting: Sets the speed multiplier for inward deviation correction during sewing phase (when middle sensor is exposed)

Hem width deviation correction OFF button: Manually tests if hem width deviation correction speed is set correctly (active when deviation test switch is ON). Direction test can block inner sensor (X14)

Hem height deviation correction OFF button: Manually tests if hem height deviation correction speed is set correctly (active when deviation test switch is ON). Direction test can block outer sensor (X16)

7. Size parameter list



Edge folding height Setting: Set the edge folding width of material. After entering the actual folding width, press the confirm button and the front wheel will automatically move to the set position

Cutting width Setting: Fine adjustment the cutting edge size, enter the value and press the confirm key, and the sensor will automatically move to the adjusted position

Number of the start-sewing seam Setting: Set the number of seam at the start-sewing

Seam-reverse back distance Setting: Set start-sewing position after seam reversed.

Overlap-sewing seam number Setting: Set the number of seam number at the end of the sewing.

Number of seam reserve Setting: single seam reserve or multi-seam reserve can be set

Lock Stitch Pitch Button: Lock stitch function pitch switch. (Available when sewing machine has lock stitch function)

8. Configuration option interface



Seam reserve folding device off Button: Turn on this switch before the end of sewing, the front

folding device will be returned and then delayed back. Turn off this switch and the reverse back seam blowpipe will be returned after the seam reverse.

The back delay distance of Seam reserve folding device Setting: After the front folding device is returned, the delay distance of the back seam tube is valid when the back-up top edge switch is turned on.

Seam Air Blow Count Setting: Sets the number of air blow actions for seam finishing.

Seam reserve blow delay Setting: seam reserve blow delay time

Seam reserve blow outward time Setting: The delay time of the outward action of the reverse seam cylinder.

Seam reserve blow internal time Setting: The delay time of the inward action of the reverse seam cylinder.

Open the top trimming when starting sewing Button: Control the On or Off of the top trimming when starting sewing.

Open the top trimming after sewing **Button**: Control the On or Off of the top trimming when starting sewing.

The number of trimming after sewing Setting: The number of times of the trimming after sewing

Position of receiving and aligning Setting: You can choose the stop position of clothing rotation after sewing "stop position" or "seam position".

Button: Executes action with current parameter settings. Button: Executes action with current parameter settings Button: Executes action with current parameter settings.

9. I/O Monitor interface



Real-time display of device input and output signal working status, used to detect whether the input signal is abnormal

10. I/O Monitor interface



Real-time display of device input and output signal working status, used to detect whether the output signal is abnormal

11. Manual mode interface

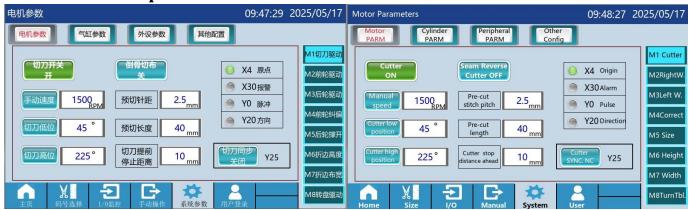


Right Sewing Setting: Sets the action duration.

Left Sewing Setting: Sets the reset duration.

Cylinder Delay Test Button: Click to cycle-test cylinder movement and verify timing settings. Click again to deactivate.

12. Cutter motor parameter interface



Cutter ON Button: The left cutter function can be turned off and on.

Manual speed Setting: Manual cutter speed can be set.

Cutter low position Setting: Set the cutter low position.

Cutter high position Setting: Set the cutter high position.

Pre-cut needle gauge Setting: The larger the value, the pre-cut speed is slower. Conversely, the speed is faster.

Pre-cut length Setting: The pre-cutting distance of the cutter can be adjusted before starting the seam. The larger the value, the cutter will start earlier.

Cutter stop distance ahead Setting: At the end of sewing, the cutter stops ahead of the distance from the seam position. the value is higher, the cutter stops earlier.

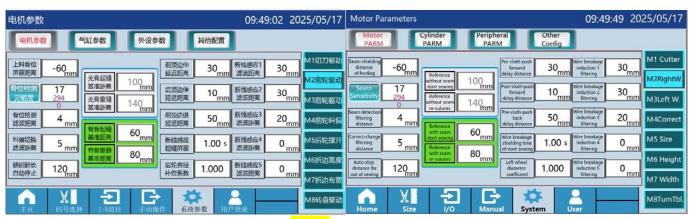
Cutter SYNC. Button: Turn on this switch and manually turn the sewing machine to test whether the cutter is synchronized.

X4 Input: Cutter motor origin indicator light.

X30 Input: Cutter motor status (normal/abnormal).Y0 Output: Cutter motor pulse operation status.Y20 Output: Cutter motor running direction status.

Y25 Output: Cutter motor synchronization output status.

13. Front wheel drive interface



Material loading seam position shielding distance Setting: Controls when the seam position detection switch drops before sewing.: Seam detection sensitivity Setting:

Seam detection filtering distance Setting:

Correction-change filtering distance Setting:

Auto-stop distance for out of sewing Setting: Set the actual sewing distance of the material to prevent the machine from not stopping and sewing the material damaged when the equipment fails.

Basic distance without seam start sewing Setting: Sewing position can be set for seamless material.

Basic distance without seam overlapped Setting: Overlap-sewing position o can be set for seamless material.

Basic distance with seam start sewing Setting: The sewing position of seam material can be set, the distance between the seam position switch and the needle of the sewing machine.

Basic distance with seam overlapped Setting: Overlap-sewing position of seam material can be

Front folding device forward delay distance Setting: Set when the front folding device moves.

Back folding device forward delay distance Setting: Set when the Back folding device moves.

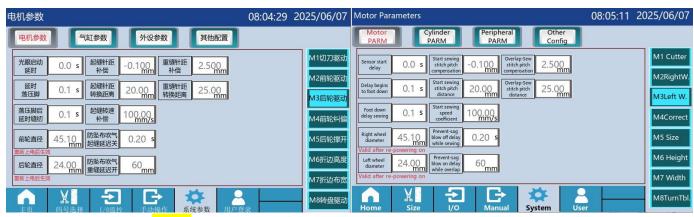
Front folding device back delay distance Setting: Set when the front folding device moves.

Thread breakage shielding time of start sewing Setting: Breaking response time at the start-sewing.

Rear Wheel Diameter Compensation Coefficient Setting: Adjusts rear wheel speed to achieve speed ratio switching between front and rear wheels.

Thread breakage induction filtering Setting: Thread break induction response time can be set to avoid false induction.

14. Rear wheel drive interface



Optical Sensor Start Delay Setting: In auto mode, sets delay time after fabric loading before starting.

Presser Foot Lowering Delay Setting: Sets delay time after seam finishing before presser foot lowers.

Sewing Delay After Presser Foot Lowering Setting: Sets delay time after presser foot lowers before sewing starts.

Front Wheel Diameter Setting: Sets diameter for sewing synchronization (takes effect after reboot).

Rear Wheel Diameter Setting: Sets diameter for sewing synchronization (takes effect after reboot).

Initial Stitch Pitch Compensation Setting: Sets compensation value within transition distance for main stitch pitch

Initial Stitch Pitch Transition Distance Setting: Defines range from starting point for pitch transition.

Initial Speed Compensation Setting: Sets linear speed compensation for front/rear wheels within transition distance.

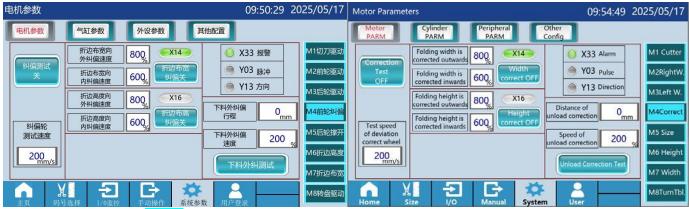
Anti-Dropping Air Blow Off Delay Setting: Sets time delay to turn off air blow after sewing starts.

Anti-Dropping Air Blow On Delay for Re-stitch Setting: Activates air blow when retreating from end point by set distance.

Re-stitch Pitch Compensation Setting: Sets compensation value within transition distance for main stitch pitch.

Re-stitch Pitch Transition Distance Setting: Defines retreat distance from end point for pitch transition.

15. Front wheel deviation correction parameter interface



Deviation Correction Test Button: Tests the ON/OFF function of deviation correction.

Deviation Wheel Test Speed Setting: Sets the base speed value for deviation correction.

Outward Edge-Width Deviation Speed Setting: Sets the speed multiplier for outward correction during finishing phase and sewing phase (when middle sensor is not exposed).

Inward Edge-Width Deviation Speed Setting: Sets the speed multiplier for inward correction during finishing phase and sewing phase (when middle sensor is not exposed).

Outward Edge-Height Deviation Speed Setting: Sets the speed multiplier for outward correction during sewing phase (when middle sensor is exposed).

Inward Edge-Height Deviation Speed Setting: Sets the speed multiplier for inward correction during sewing phase (when middle sensor is exposed).

Edge-Width Deviation Test Button: Manually tests if edge-width deviation speed settings are correct (only active when "Deviation Test Switch" is ON). For direction test, block inner sensor (X14).

Edge-Height Deviation Test Button: Manually tests if edge-height deviation speed settings are correct (only active when "Deviation Test Switch" is ON). For direction test, block outer sensor (X16).

X33 Input: Deviation correction motor status (normal/abnormal).

Y03 Output: Deviation correction motor pulse status.

Y13 Output: Deviation correction motor running direction status.

Outward Receiving Deviation Stroke Setting: Sets the travel distance for outward receiving deviation.

Outward Receiving Deviation Speed: Sets the speed multiplier for outward receiving deviation.

Outward Receiving Deviation Test Button: Tests if outward deviation function works properly (only active when "Deviation Test Switch" is ON).

16. Rear wheel open interface



Size Code Lower Limit Setting: Sets the lower limit position of the expansion

Size Code Upper Limit Setting: Sets the upper limit position of the expansion motor

High Speed Setting: Maximum tensioning speed

Jog Speed Setting: Manual tensioning speed

Origin Compensation Setting: At origin position, left/right wheels can expand to half of fabric circumference

X10 Input: Origin indicator light

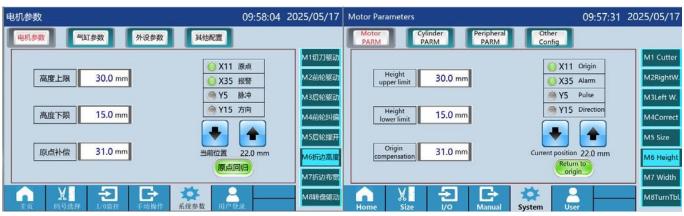
X34 Input: Tensioning motor status (normal/abnormal)

Y4 Output: Tensioning motor pulse status

Y14 Output: Tensioning motor running direction status Current Position Button: Moves tensioning position left

Origin Return Button: Returns to origin position

17. Edge-folding height interface



Height Upper Limit Setting: Sets the upper limit value for Dimension A

Height Lower Limit Setting: Sets the lower limit value for Dimension A

Origin Compensation Setting: Sets the compensation value for Dimension A motor origin

X11 Input: Origin indicator light

X35 Input: Motor status (normal/abnormal)

Y5 Output: Motor pulse status

Y15 Output: Motor running direction status

Current Position Button: Manual motor position adjustment

Origin Return Button: Motor first returns to origin switch, then reaches set value after calculating origin compensation

18. Edge-folding width interface



Fabric Width Upper Limit Setting: Motor upper limit position

Fabric Width Lower Limit Setting: Motor lower limit position.

Origin Compensation Setting: Motor origin switch compensation value.

X12 Input: Origin indicator light

X36 Input: Motor status (normal or abnormal).

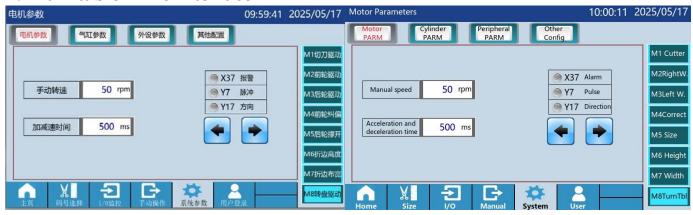
Y6 Output: Motor pulse status.

Y16 Output: Motor running direction status.

Current Position **Button**: Manually adjusts motor position.

Origin Return Button: Motor first returns to origin switch, then reaches set value after calculating origin compensation.

19. Turntable Drive Interface



Manual Speed Setting: Sets the test speed.

Acceleration/Deceleration Time Setting: Sets the duration for acceleration and deceleration processes.

X37 Input: Motor status (normal or abnormal).

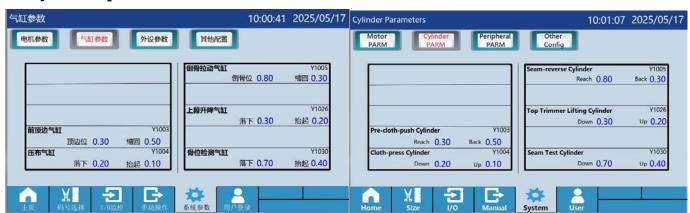


Y7 Output: Motor pulse status.

Y17 Output: Motor running direction status.

Used for setting parameters of the turntable anti-tangling motor and conducting motor abnormality tests.

20. cylinder parameter interface



Front edge cylinder setting: Sets action and reset time to optimize efficiency in automatic mode.

Fabric press cylinder setting: Sets action and reset time to optimize efficiency in automatic mode

Seam pulling cylinder setting: Sets action and reset time to optimize efficiency in automatic mode

Upper cutter lifting cylinder setting: Sets action and reset time to optimize efficiency in automatic mode.

Seam position detection cylinder setting: Sets action and reset time to optimize efficiency in automatic mode.

21. Tension sensor parameter interface



Tension range setting: Sets the maximum measurement range of the sensor.

Sensor protection tension setting: Sets the protection tension to prevent sensor damage from excessive tension

Maximum voltage setting: Sets the voltage corresponding to the maximum range.

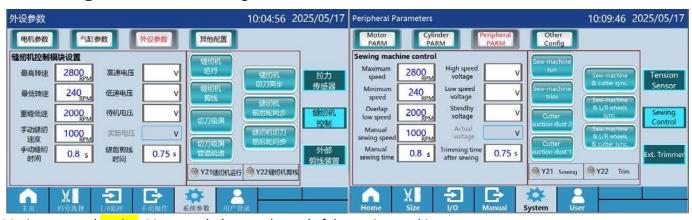
Zero compensation button setting: Removes standby gross weight (equivalent to tare).

Real-time reading display: Shows the current actual tension value.

Weight calibration button setting: Calibrates using standard weights (in grams).

Rear wheel passive release button: Switch for real-time rear wheel tension adjustment to maintain constant tension value.

22. Sewing machine control parameter interface



Maximum speed setting: Must match the actual speed of the sewing machine.

Minimum speed setting: Sets the minimum operating speed of the sewing machine.

Re-stitch low speed setting: Adjusts the speed for re-stitching operations.

Manual sewing speed setting: Configures the test sewing speed on main interface.

Manual sewing time setting: Sets the test sewing duration on main interface.

High-speed voltage setting: Default

Minimum voltage setting: Default

Standby voltage setting: Default

Actual voltage display: Default

Post-stitch thread trimming time setting: Sets the action interval after thread trimming

Sewing machine operation button: Tests sewing machine stitching function.

Thread trimming button: Tests sewing machine thread cutting function.

Knife suction button: Tests the knife waste suction function.

Knife suction pipe cleaning button: Tests the suction pipe cleaning function.

Sewing machine-knife sync button: Tests operation with synchronized knife action.

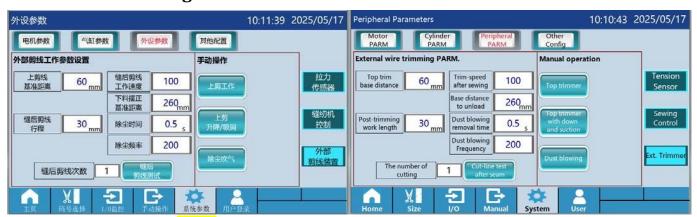
Front/rear wheel synce button: Tests operation with synchronized feed wheels.

Full system sync button: Tests operation with synchronized knife and feed wheels.

Y21 output: Sewing machine operation status.

Y22 output: Thread trimming status.

23. External trimming device



Upper trimming base distance Setting: Set the position of the suction and cutting thread under the upper thread, and adjust the material feeding position of the cutting thread.

After-Stitch trimming end position Setting: Set the position where the upper trimming ends and lifts

Trimming speed after sewing Setting: Set the speed of trimming and material feeding after sewing.

Bottom hemming set right base distance Setting: Set the straightening parameters after sewing.

Dust removal time Setting: Set the dust removal and blowing time.

Dust removal frequency Setting: Set the frequency of dust removal after sewing.

Upper trimming Button: Upper trimming working test manual switch.

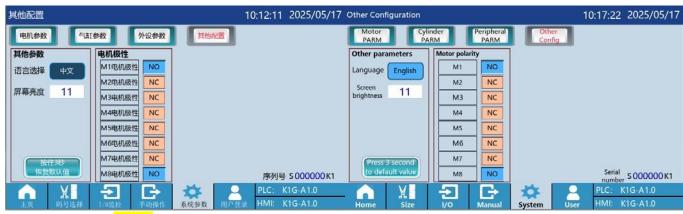
Upper trimming with lift and down dust suction **Button**: Upper trimming lift and down test suction switch.

Dust removal blowing Button: Upper and bottom trimming test the dust removal switch.

After-Stitch Thread Trimming Frequency Setting: Sets upper cutter thread trimming frequency after stitching

After-Stitch Thread Trimming Test Button: Tests operation according to set parameters.

24. Peripheral parameter interface



Language Selection Setting: Click to set language.

Screen Brightness Setting: Adjust screen brightness.

Restore Defaults Button: Press and hold for over 3 seconds to reset to default parameters.

Function and adjustment of sensors

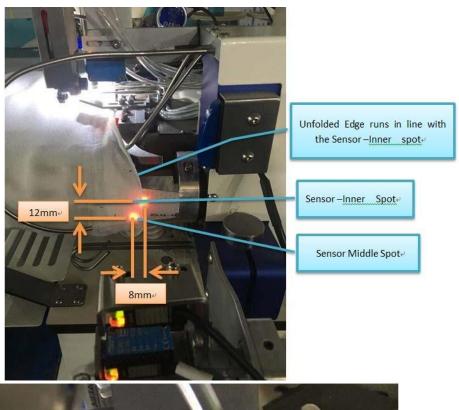
Sensor-Inner: After placing the material, gently push the material to cover the outer, middle and inner light eyes from outside to inside. When the eye spot of the inner light is covered, the device starts (in automatic mode), detects the signal of the scattered edge (unrolled edge) during the sewing process, and controls the size of the rolled edge and the size of the cut material edge by turning the gear inside and out.

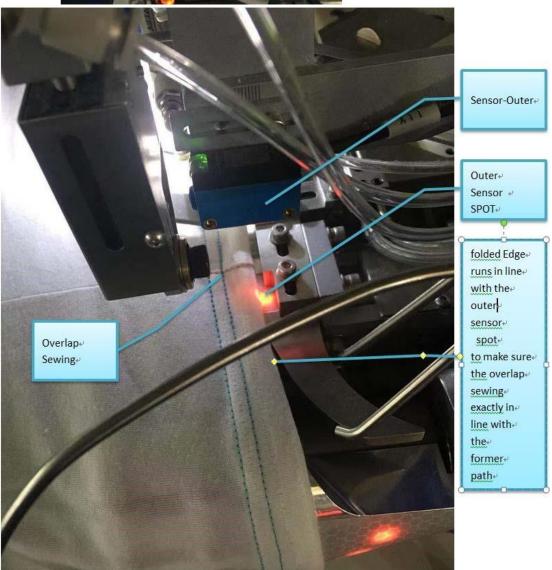
Sensor-middle: Transmit the signal, when the material is half sewed (from unfolded edge to folded edge), when the material is folded, the sensor-inner facula is showed out(not covered), at this time the sensor middle transmits the signal to the sensor-outer, and sensor-outer begins to work.

Note:

- 1. The edge is folded again and again, adjust the sensor middle closer to the sensor-inner.
- 2. If the machine stops halfway (can not finish a whole circle), and adjust the sensor middle farther to the sensor-inner).

Sensor-Outer: After receiving the signal from the middle sensor, the sensor-outer starts to work. In this section, the sensor-inner and Sensor-middle facula is showed out(not covered), the sensor-inner and Sensor-middle is without any function, The Sensor-outer rotates inside and outside the gear to control the position after the hem and ensure the accuracy of the weight line.





Seam detecting sensor: Detect the seam sensor signal, after detecting the seam signal, the sewing machine will work after a certain distance(set on the screen), and detecting the seam signal again, the sewing machine will stop after a certain distance(set on the screen).

Failure code and elimination

1.Emergency stop: Press the emergency stop switch when there is an anomaly in the sewing process, and the emergency stop will be displayed at the top of the screen, and the equipment cannot be started at this time;

Solution: Reset the emergency stop switch (rotate the switch in the direction of the emergency stop switch arrow). At this time, the red subtitles on the screen are eliminated and the device returns to normal;

2. Thread breakage alarm: During sewing process, the needle thread is broken, and the thread breakage sensor cannot detect the thread. In order to protect the material, the machine will automatically stop, and the thread breakage alarm will be displayed at the top of the screen;

Solution: After threading the thread, press the emergency stop switch and reset, the fault is removed;

3. Receiving quantity reach: When the receiving quantity of the receiving table reaches the setting quantity, the top of the screen will display the receiving quantity, prompting the collection of material; Solution: Click the key to clear the material, you can continue to sew.

4.Code to the right limit: when the left wheel is close to the machine head, after the optical sensor in the module is connected, the screen will display the code to the right limit to prevent the left wheel from continuing to move and avoid collision with the head;

Solution: Enter the code number selection interface, click the code calibration left, the alarm is lifted.

Daily maintenance and maintenance

1. Overall equipment maintenance requirements

Clean the dust on the surface of the equipment after work every day, and do not accumulate thread heads and cilia.

Lubricate moving parts and supporting parts of the equipment every 10-15 days.

Check the fastening and connecting parts of the equipment every month, and tighten them in time if they are loose to ensure the safe operation of the equipment.

Regular anti-rust and anti-corrosion treatment of the external and internal parts of the equipment to improve the corrosion resistance of the equipment and improve the service life of the equipment.

Periodically check the circuit of the device and clean the dust of the distribution box to avoid aging of the line or short circuit or poor contact caused by dust.

Pneumatic Circuit Diagram

