

## **User Guide**





**Thank you for purchasing our products.**

**For your use safety, please must read the instruction manual before use.**

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	AC 220V ± 20% 50/60HZ	AC 110V ± 20% 50/60HZ
	550W	550W
	3 N M	3 N M
	200rpm 6500rpm	200rpm 6500rpm



	1
	
	1
	2

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<b>Er01</b>		
<b>Er02</b>		
<b>Er03</b>		
<b>Er04</b>		
<b>Er05</b>		
<b>Er07</b>		

		200 7500	5500	
		0 1	1	0 1
		0 23	12	180
		200 800	200	250
		1 100	50	50 50
		0 1	1	
		0 1	0	1
		100 999	750	
<b>P-15</b>				
<b>P-16</b>				

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## Preface

**Thank you for purchasing this product, In order to make use of product better, Before installing and testing, please read the operating instructions and the sewing equipment specification carefully, to use correctly, and be installed and tested by professionals.**

### Note:

This product is only applicable to the specified range of sewing equipments, please do not use for other purposes.

Our company has the right of final interpretation of this manual.

If there is any doubt when using product or any comments or suggestions of our products and services, please feel free to contact us!

Due to upgrade products, features and specifications are subject to change without notice.

The usage of the operating instructions:

The operating instructions provide guidance information based on user's requirements.

The information in all equipments and other usage occasions, transportation, installation, use and maintenance.

The operating instructions are intended for users and technical staff.

## Safety Instructions

- (1) Make sure that the controller switch button is off before plugging in power.
- (2) Make sure that all the motor connector cord is plugged in before the switch button turn on, otherwise it will be an error.
- (3) The connection plugs are one-to-one. Please confirm that the terminals match each other when the connection is connected..Please do not over-force when inserting, so as not to cause damage to the system.
- (4) Do not press or over-tighten the motor wire between external objects. To avoid damage to the joint signal line
- (5) Do not disassemble the controller without professionals, to avoid accidents.

**Caution:** Inside of the controller and interface wire are with strong power, please do not touch, in order to avoid an electric shock!

## Control box technical index

Working voltage	AC220V 20% 50/60HZ	AC110V 20% 50/60HZ
Rated power	550W	550W
Motor torque	3 N M	3 N M
Motor speed	200rpm 6500rpm	200rpm 6500rpm





Up-down needle position	Yes	Yes
Over current, overload	Yes	Yes

**Please enter the proper voltage according to the matched model.**

## ● Interface plug connections

The pedals and the machine head of the connector plug are mounted to the corresponding position in the controller back of socket. Please check if the plug is inserted firmly.


## ● Operation panel description


Operation panel description	
	Working mode, switch the up-down needle position; Parameter mode, setting the parameter.
	Working mode, switch the LED light; Parameter mode, save the parameter.
	Working mode, adjust the motor speed; Parameter mode, choice and adjust for parameter.
	

## ● Parameter adjusting and example



The panel is four digital Ni-ii tube display.

Adjust the speed by press the   key when in standby interface.




In standby interface, press the , when the up needle position indicator light is on, it is on up needle stop, when the down needle position indicator light is on, it is on down position stop, when the indicator light is off, the needle position function turn off.

In standby interface, press the  key, can turn on/off the machine head light.



Enter in and change the system parameter


When the power is on, press the  key for some seconds, then press the  key, it enters into the parameter mode. The display shows **P-00**




Press the   key, can change the parameter.

After choose the parameter, press the  key, enter into the parameter, then can change the value of the parameter by   key



Press the  key save the value  
the setting of motor rotate direction:


When the power is on, press the  key for some seconds, then press the  key, it enters into the parameter mode. The display shows **P-00**

Press the  key can change parameter to **P-02**

chosen parameter, press  ,using   for changing value:  
0: negative rotate 1: positive rotate, the original is positive rotate.

Press the  key save the value.

When the power is on, press the  key for some seconds, then press the  key, it enters into the parameter mode. The display shows **P-00**

Press the  key for three seconds to reset



● **Error code and parameter**

**List 1: Error code**

<b>Error Code</b>	<b>Representative Meaning</b>	<b>Possible Problems</b>
<b>Er01</b>	Stop needle error	1) motor Hall bad . 2) hand heel magnet shedding. 3) parking signal line contact bad or damage
<b>Er02</b>	No foot signal as detected	1) the foot signal line contact is bad or damaged. 2)the model of the foot pedal controller is incorrect
<b>Er03</b>	Motor Hall or phase error	1) Motor signal line contact bad or damage. 2) motor Hall bad
<b>Er04</b>	Plugging protection	1)Motor overload. 2) Poor contact of motor power line
<b>Er05</b>	Hardware overflow	1) Motor overload. 2) Poor contact of the motor signal line
<b>Er07</b>	Serial communication error	1)Bad or damage to the connection line of the control board

**List 2: Parameter**

<b>Serial Number</b>	<b>Name</b>	<b>Parameter range</b>	<b>Factory Default</b>	<b>Function</b>
<b>P-01</b>	Maximum speed lock	200 7500	5500	
<b>P-02</b>	Positive and reverse setting of motor	0 1	1	0 represents reversal, 1 represents positive rotation
<b>P-03</b>	Down stop angle	0 23	12	180 degrees based on the position of top stop needle
<b>P-04</b>	The starting speed	200 800	200	RPM
<b>P-05</b>	Pedal acceleration curve	1 100	50	Less than 50, the curve up; More than 50, curve under the cast
<b>P-08</b>	Stop and stop	0 1	1	0: close 1: open

	function			
<b>P-10</b>	Automatic running in test	0 1	0	The parameter is changed to "1" automaticall running in, set to "0" or turn off the po er, run in and stop
<b>P-14</b>	Motor output po er adjustment	100 999	750	
<b>P-15</b>	<b>Electric control version</b>			
<b>P-16</b>	<b>Display screen version</b>			