

使用说明书

User Guide

工业缝纫机

Industrial sewing machine

感谢您购买本公司的产品。

为了您的使用安全，请您在使用之前一定仔细阅读本使用说明书。

Thank you for purchasing our products.

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

● 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 involves equipments and other usage occasions, transportation, installation, use and maintenance.

The operating instructions are intended for users and technical staff.

● Safety Instructions

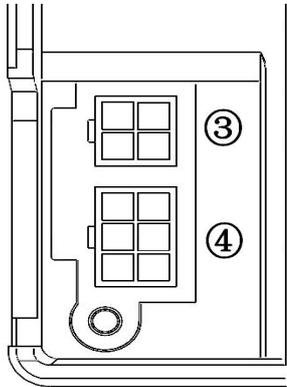
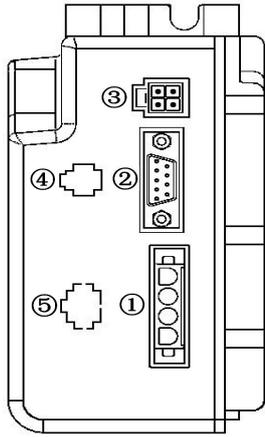
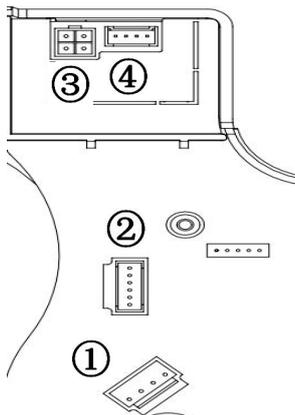
- (1) Make sure that the controller switch button is off before plugging in power.
- (2) Make sure that all the motor connector cord is plugged in before the switch button turn on, otherwise it will be an error.
- (3) The connection plugs are one-to-one. Please confirm that the terminals match each other 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-twist the motor wire by external objects. To avoid damage to the joint signal line.
- (5) Do not disassemble the controller without professionals, to avoid accidents.

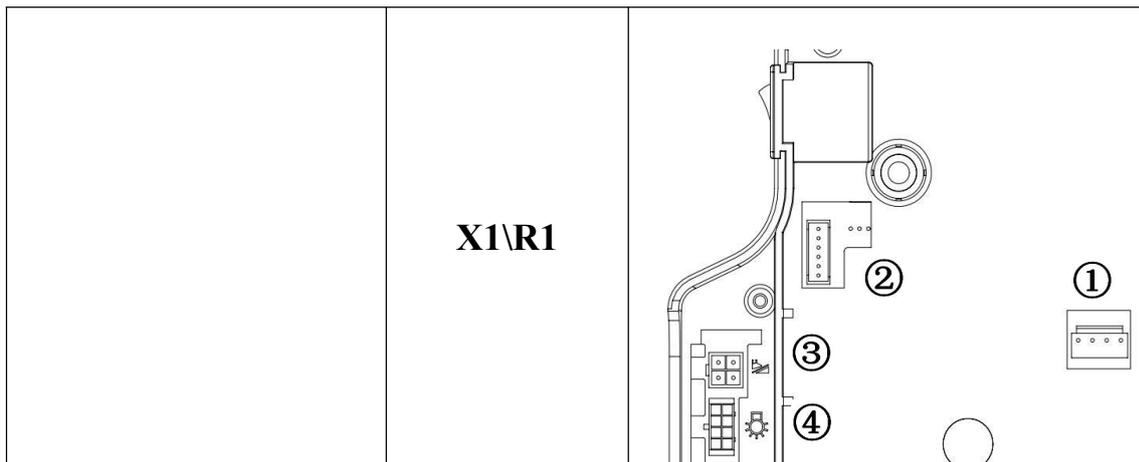
Caution: Inside of the controller and interface wire are with strong power, please do not touch, in order to avoid an electric shock!

● Control box technical index

Controller model	M-6SD2	M-7SE2\Q1\S1	X1\R1	W1\V1\P1\N1
Working voltage	AC220V ± 20% 50/60HZ	AC220V ± 20% 50/60HZ	AC220V ± 20% 50/60HZ	AC220V ± 20% 50/60HZ
Rated power	550W	550W	550W	550W
Motor torque	≤ 3 N·M	≤ 3 N·M	≤ 3 N·M	≤ 3 N·M
Motor speed	200rpm ~ 6000rpm	200rpm ~ 4500rpm	200rpm ~ 6500rpm	200rpm ~ 4500rpm

Up-down needle position	Yes(need device of needle position)	Yes	Yes	Yes
Over current, overload	Yes	Yes	Yes	Yes

<p>● Port definition</p> <p>① Electric outlet</p> <p>② Encoding outlet</p> <p>③ Pedal switch Socket</p> <p>④ LED light outlet</p> <p>⑤ Outlay needle position outlet</p> <p>※ Please following port definition and outlet color to connection.</p>	<p>M-7SE2\</p> <p>Q1\S1</p> <p>※ ①、②、⑤</p> <p>Built-in</p>	
	<p>M-6SD2</p>	
	<p>W1\V1\</p> <p>P1\N1</p>	



● Operation panel description

- 1)  : Working mode,switch the up-down needle position;Parameter mode,setting the parameter.
- 2)  : Working mode,switch the LED light;Parameter mode,save the parameter.
- 3)  、  : Working mode,adjust the motor speed;Parameter mode,choice and adjust for parameter.

M-6SD2\M-7SE2\Q1\S1	X1\R1	W1\V1\P1\N1

●Parameter adjusting and example

1. 1 The panel is four digital Nixie tube display.

Adjust the speed by press the “+”, “-” ,key when in standby interface.

1. 2 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.

1. 3 In standby interface , press the “S” key , can turn on/off the machine head light.

1. 4 Enter in and change the system parameter:

①When the power is on ,press the “?” key for some seconds ,then press the “+” key , it enters into the parameter mode. The nixietube shows “P-00” ,

②Press the “+”、“-” key ,can change the parameter.

③After choose the parameter , press the “?”key ,enter into the parameter ,then can change the value of the parameter by “+”、“-” key ,

④Press the “S” key save the value

1. 5 The setting of motor rotate way:

①When the power is on ,press the “?” key for some seconds ,then press the “+” key , it enters into the parameter mode. The nixietube shows “P-00” ,

②Press the “+” key can change parameter to “P-0 2” ,

③chosen parameter,press “?” ,using “+”、“-” for changing value:

0: negative rotate 1:positive rotate,the original is positive notate.

④Press the “S” key save the value.

1. 6 Reset:

①When the power is on ,press the “?” key for some seconds ,then press the “+” key , it enters into the parameter mode. The nixietube shows “P-00” ,

②Press the “S” key for three seconds to reset

● **Error code and parameter**

List 1: Error code

Error code.	Meaning	Possible problem
Er01	The error of needle position	①The motor hall is broken ②The hand-wheel magnet fall off ③The connecting of 9 needle signal line is not good ④Hanging controller not connected outlay needle position (NO.⑤outlet) turn on the needle position function
Er02	Can't test the motor signal	①pedal signal line connect not good or broken.
Er03	The hall or phase of motor is wrong.	①The connecting of 9 needle signal line is not good ②The motor hall is broken.
Er04	The protection of locked-rotor	①The motor is overloading. ②The connecting of motor power line is not good.
Er05	The hardware is over-current.	①The motor is overloading. ②The connecting of motor signal line is not good.
Er07	The serial communication is wrong.	①The line connecting of control box is no good. ②Toppling switch damage

List 2: Parameter

No.	Name	Parameter range	Leave-factory number	Function
P-01	The locked highest speed	200~6500	4500	
P-02	The setting of motor positive and negative rotate	0~1	1	0:means negative rotate, 1:means positive rotate, the original is positive notate.
P-03	The angle of down stop	6~18	12	12 degree
P-04	The starting speed	200~800	250	250 rpm

P-05	Accelerate the speed	2000~4000	3500	3500 rpm
P-06	Set the needle sewing	0~999	0	
P-07				Retention parameter
P-08				Retention parameter
P-09				Retention parameter
P-10	Automatic Mode switch	0~1	0	No.1 code it's Automatic mode, the function close when turn off power
P-11			0	Retention parameter
P-12			0	Retention parameter
P-13	Selection of motor	0~1	0	1: Old motor, 0: normal motor
P-14	Maximum current	50~1000	280	
P-15	Needle position setting	0~1	1	1:means detecting needle position, 0 :means no detect