Operation Manual of Single Needle Interface

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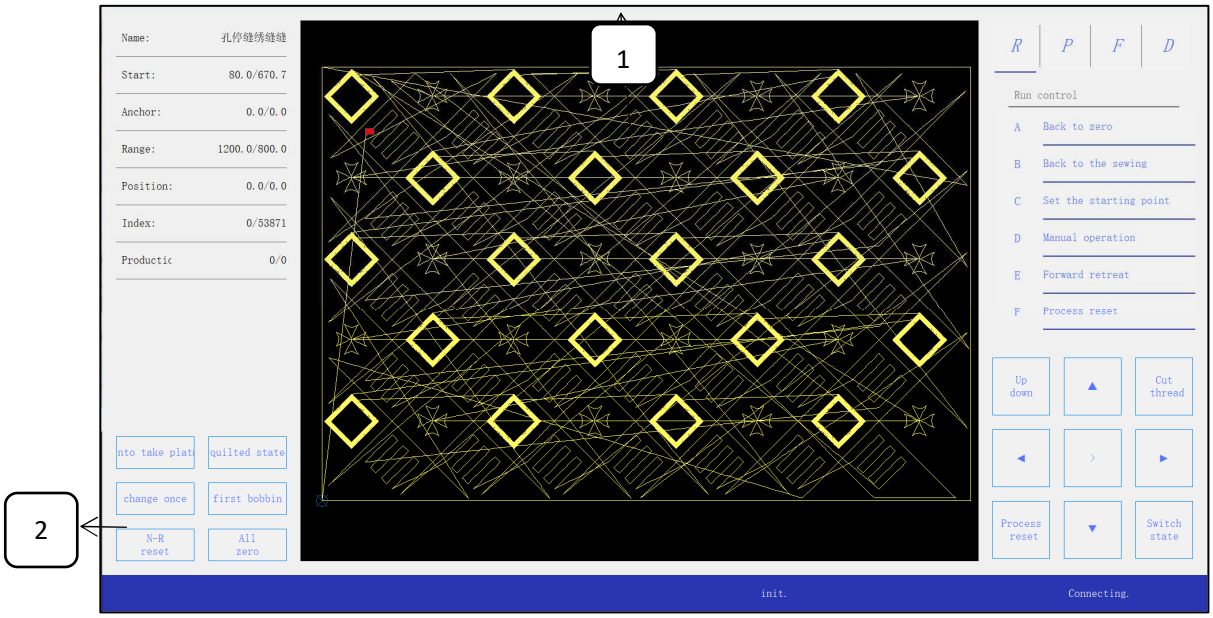
Chapter I. Brief Introduction of Main Interface

1.1 Introduction of Operation Panel Functions



1. Showing Area of LCD

Showing the pattern info of being operated, status of machine, process of operation, RPM of working, can also be showed different interface info according to different functions.

2. Shortcut Function

'nto take plat'Status of Switching Bobbins: It means the status of switching bobbins.

'quilted state' Status of Sewing: It means the status of sewing.

change once: It means change the bobbin one time.

first bobbin: It means first bobbin.

N-R reset: It means position of needle shuttle resets.
All zero: It means the spindle, needle shuttle and frame back zero position.

Name: Name of pattern.

Start: Start point of quilted.

Anchor: Anchor of quilted.

Range: Range of quilted.

Position: Current position of coordinate.

Index: Index of pattern.

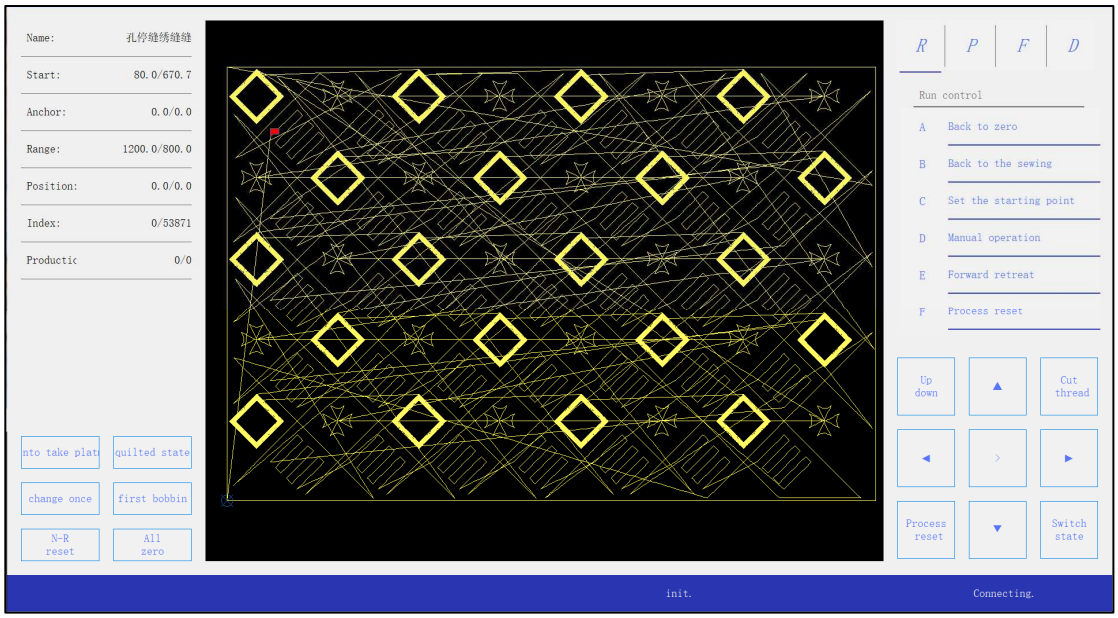
Production: Quantity of quilted.

Up down: Rise and fall of sewing head.

Cut thread: Manual cutting thread of sewing head.

Process reset: Reset of machine’s operation.

Switch state: It means switching of working status and simulation status.



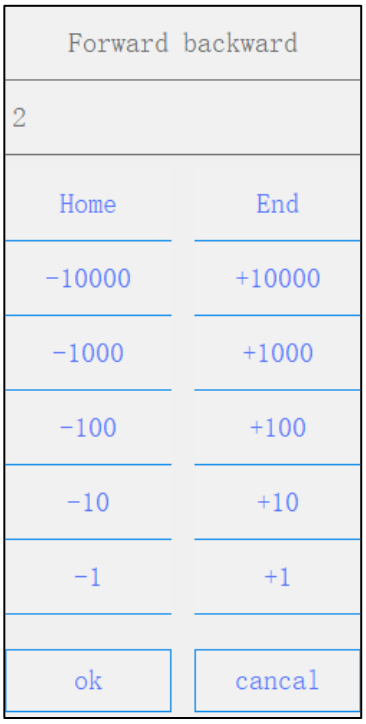
1. Back to zero: It means back to the designed zero position.

2. Back to the sewing: It means back to the designed starting position.

3. Set the starting point: Setting the starting point of needed sewing.

4. Operation Manually: It means shortcuts of First Bobbin, Threading Point, Offset Point, Needle Zero, Shuttle Zero, Needle Shuttle Reset, Head Up, Head Down, Auto change bobbin one, Install first bobbin, Shut from platm to head, Shut from head to platm, Bottom line count clear, Production count clear.

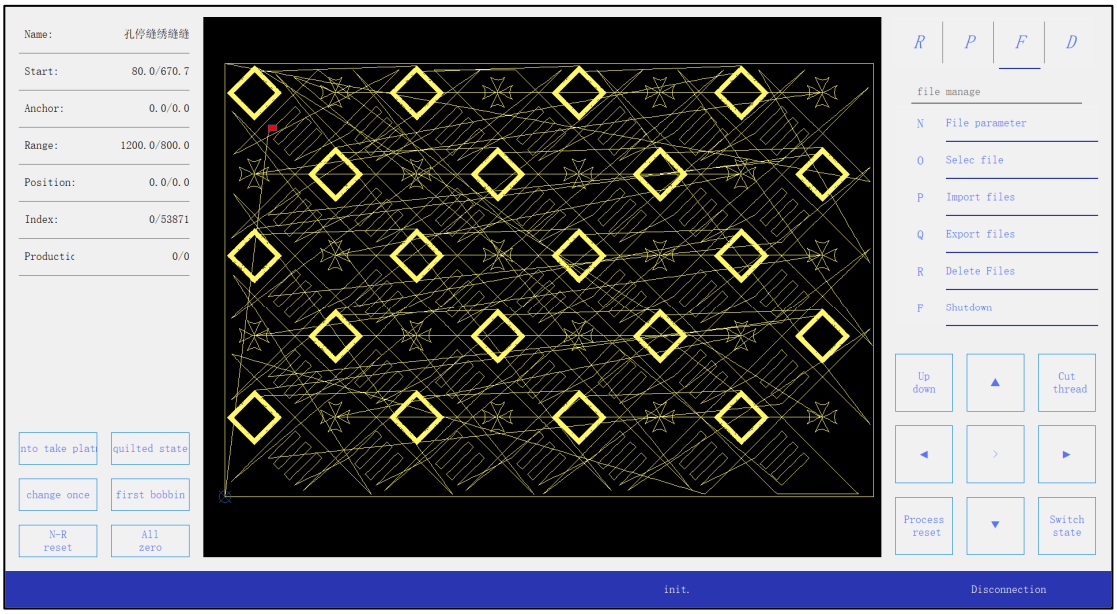
5. Forward and backward: It means set the number of forward and backward.

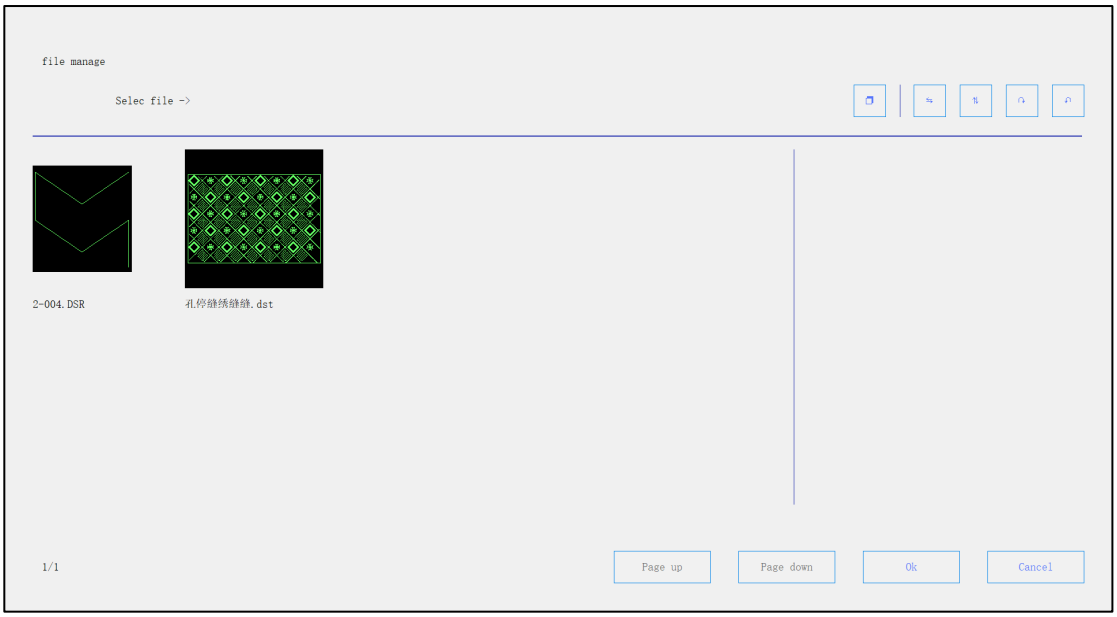


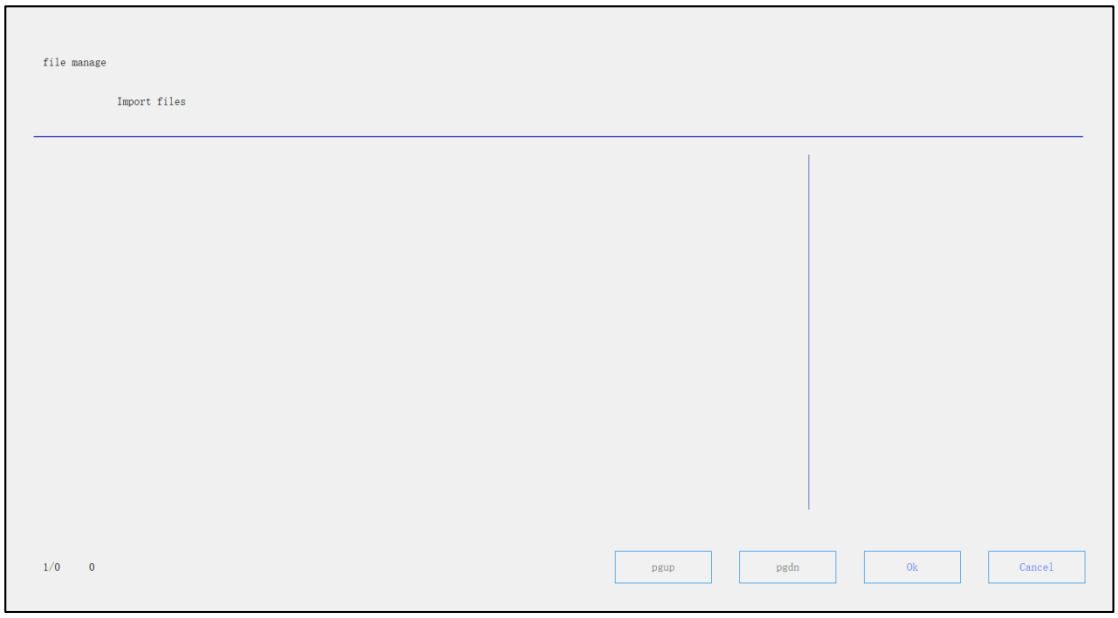
6. Reset Process: Reset the process.

Chapter II． Brief Introduction of Import/Delete Files

2.1 Introduction of Importing files from USB flash

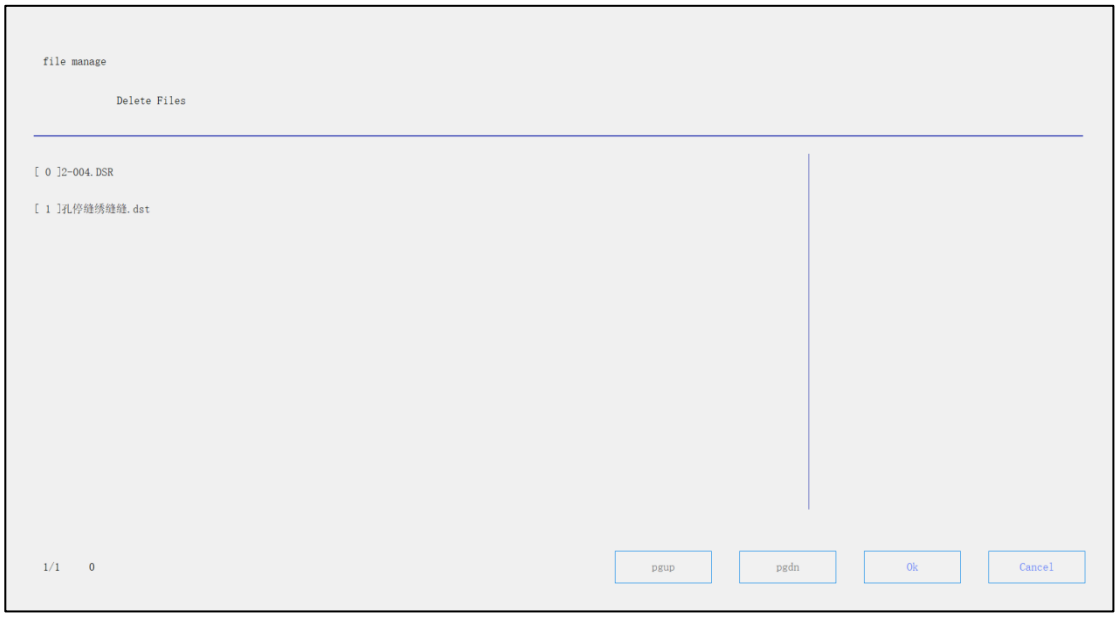






Import the patterns which in the flash directly to operation box, continue to choose to operate.

2.2 Introduction of Deleting file function



Open the ‘Delete Files’, choose the files you need to delete, click ‘OK’ to delete.

Chapter III. Brief Introduction of Setting Parameters

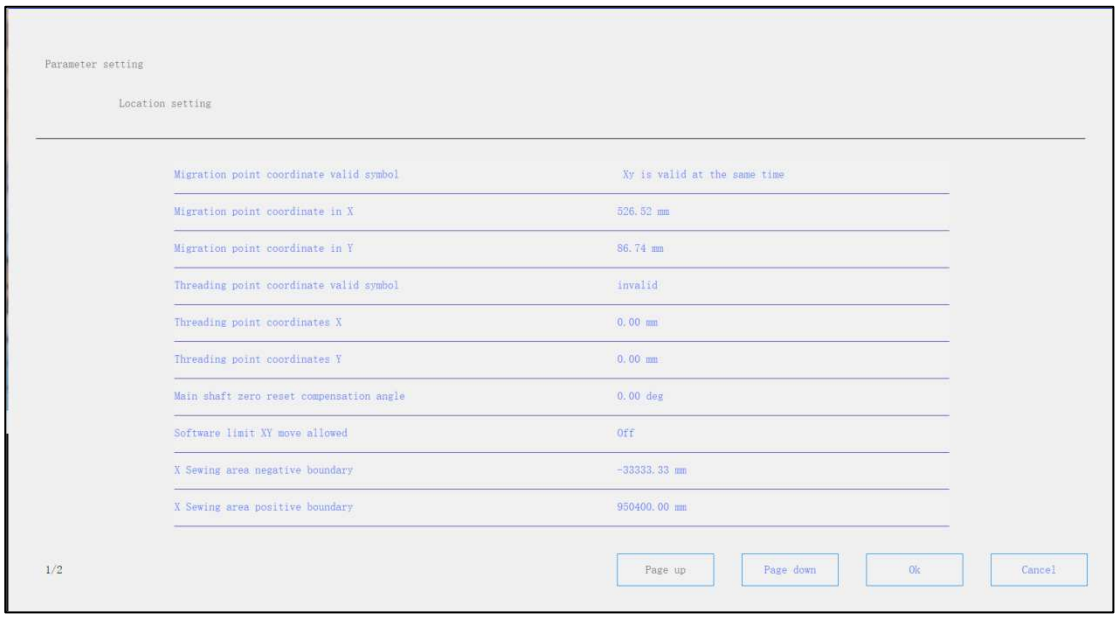
3.1 Set file parameters

1. Anchor point X: Coordinate of X

2. Anchor point Y: Coordinate of Y

Chapter IV． Brief Introduction of Location Parameters

4.1 Introduction of location parameters



1. Migration point coordinate valid symbol: Valid coordinate position of migration point.

2. point coordinate in X: Coordinate X of migration point.

3. Migration point coordinate in Y: Coordinate Y of migration point

4. Threading point coordinate valid symbol: Valid coordinate of threading point.

5. Threading point coordinate X: Coordinate X of threading point.

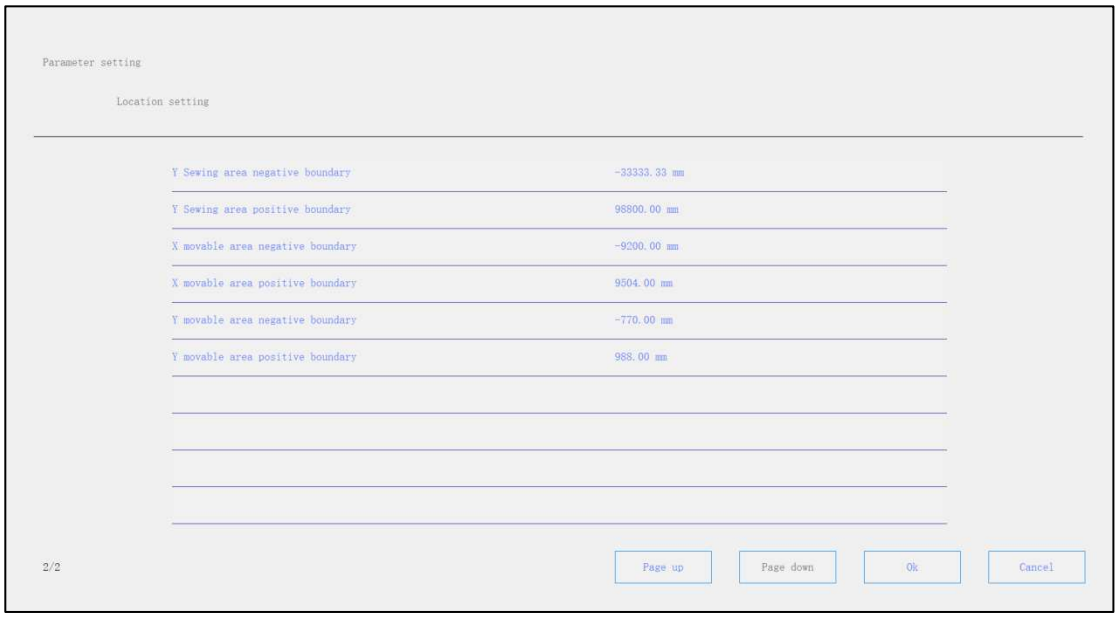
6. Threading point coordinate Y: Coordinate Y of threading point.

7. Main shaft zero reset compensation angle: The angle of sensor while main shaft zero reset compensation.

8. Software limit XY move allowed: It means if XY allowed to move.

X sewing area negative boundary: The max. boundary of X can be sewed negative.

9. X sewing area positive boundary: The max. boundary of X can be sewed positive.



10. Y Y sewing area negative boundary: The max. boundary of Y can be sewed negative.

11. Y sewing area positive boundary: The max. boundary of Y can be sewed positive.

12. X moveable area negative boundary: The max. boundary of X can be moved negative.

13. X moveable area positive boundary: The max. boundary of X can be moved positive.

14. Y moveable area negative boundary: The max. boundary of Y can be moved negative.

15. Y moveable area positive boundary: The max. boundary of X can be moved positive.

Chapter V． Brief Introduction of Speed Parameters

5.1 Introduction of Speed Parameters

1. Sewing main shaft working speed: We can set RPM of main shaft sewing through this button.

2. Spindle corner speed: We can set rotate speed of spindle corner speed through this button, range 1-3000 rpm.

3. Main shaft zero reset speed: We can set the rotate speed of main shaft zero, rotate speed of main shaft start-stop, zero reset rotate speed, range 1-3000 rpm

4. Main shaft running speed: We can set the rotate speed of main shaft running, rotate speed of main shaft start-stop, range 1-3000 rpm

5. 。Main shaft running acceleration: We can set the running acceleration of main shaft, range 1-100 rpss.

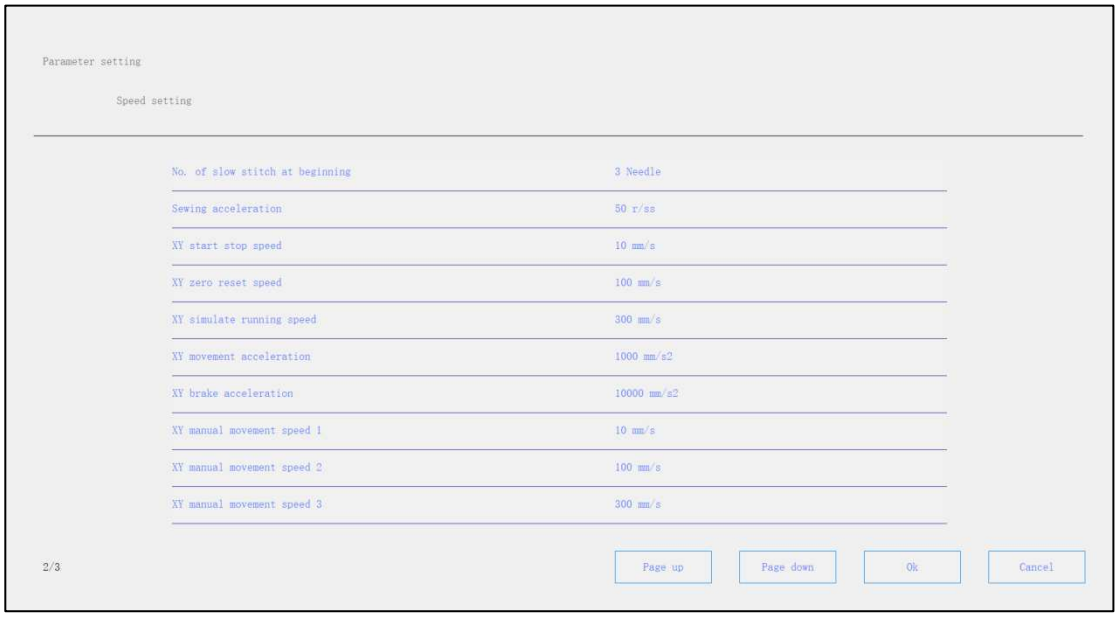
6. Main shaft brake acceleration: We can set the main shaft brake acceleration, range 1-100 rpss.

7. Main shaft start stop speed: We can set the rotate speed of main shaft start stop, range 1-300 rpm.

8. Cut thread, main shaft speed: We can set the cut thread rotate speed of main shaft.

9. Needle reset, main shaft speed: We can set the needle reset rotate speed of main shaft.

10.Main shaft start slow speed: We can set the main shaft start slow speed.



11.No. of slow stitch at beginning: we can set the number of needles through this button, how many needles in need while needle started, Defaults:3.

12.Sewing acceleration: We can set the sewing acceleration.

13.XY start stop speed: We can set the XY start-stop speed through this button. Range 1-1000 mm/s

14.XY zero reset speed: We can set the XY zero reset speed. Range 1-1000 mm/s.

15.XY simulate running speed: We can set the XY simulate running speed through this button, range 1-1000 mm/s

16. XY movement acceleration: We can set the XY movement acceleration through this button, range 1-10000 mm/s^2

17.XY brake acceleration: We can set the XY brake acceleration through this button, range 1-10000 mm/s^2

18.XY manual movement speed 1: We can set the XY manual movement speed 1, range 1-1000 mm/s

19.XY manual movement speed 2: We can set the XY manual movement speed 2, range 1-1000 mm/s

20.XY manual movement speed 3: We can set the XY manual movement speed 3, range 1-1000 mm/s

21.XY maximum moving speed: We can set the XY maximum moving speed through this button.

Chapter VI. Brief Introduction of Work Parameters

6.1 Introduction of work parameters

1. Production preset: The expected output.

2. Loop work allowed: If it is allowed to work recurrently.

Chapter VII. Brief Introduction of Action Parameters

7.1 Introduction of action parameters.

1. 移框松线允许：移框松线是否打开。
Moving basket loose line: If the moving basket is opened.

2. 缝纫动框方式：缝纫动框方式选择。
Sewing frame movement mode: Choose the way of sewing frame movement.

3. 起针慢动针数：按此功能键可以进行针数设置，在针起动时需要几针，默认：3 针。
No. of slow stitch at beginning: We can set the number of needle through this button, Default: 3.

4. 剪线允许：剪线动作是否自动允许。
Cut thread allowed: If the action of cut thread is allowed automatically.

5. 剪线时动作夹线允许：剪线时动作夹线是否打开。
Thread cut, catch upper thread allowed: If the catch upper thread is opened while threat cutting.

6. 加油方式选择：选择加油方式。
Oiling mode selection: Choose the mode of oiling.

7. 自动换梭装置：选择自动换梭装置。

Automatic bobbin change device: Choose the automatic bobbin device.

8. 加油针数间隔：加油针数间隔设置。
Oiling interval by needle stitch: Set the oiling interval by needle stitch.

9. 加油时间间隔：加油时间间隔设置。
Oiling interval by working time: Set the oiling interval by working time.

10.加油持续时长：加油持续时长设置。
Oiling sustained time: Set the oiling sustained time.

11.Shuttle Oiling sustained time: Set the shuttle oiling sustained time.

12.Main shaft stop position selection after work complete: Set the main shaft stop position after work completed.

13.Sewing move head up down: Set the sewing move head up and down.

14.Trimming frame direction: Set the trimming frame direction.

15.Minimum speed deviation angle: Set the minimum speed deviation angle.

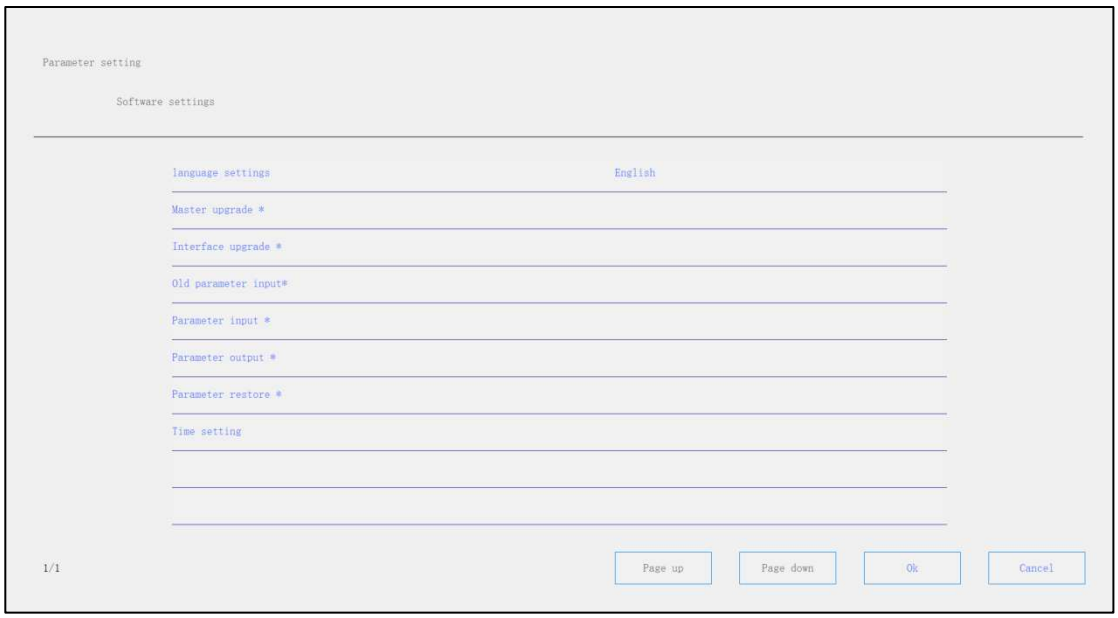
Chapter VIII. Brief Introduction of Detection Setting

8.1 Detection setting

1. No. of stitch detect if thread broken.
2. Bobbin change reminder function: Set the bobbin change reminder function.
3. Bobbin thread length: Set the bobbin thread length.
4. Bobbin thread correction per stitch: Set the bobbin thread correction per stitch.
5. Bobbin change as per sewed pieces: Set the bobbin change as per sewed pieces.
6. Safety input pressure allowed: Set the safety input pressure allowed.
7. Secure input light curtain allows: Set the secure input light curtain allows.

Chapter IX． Brief Introduction of Software settings

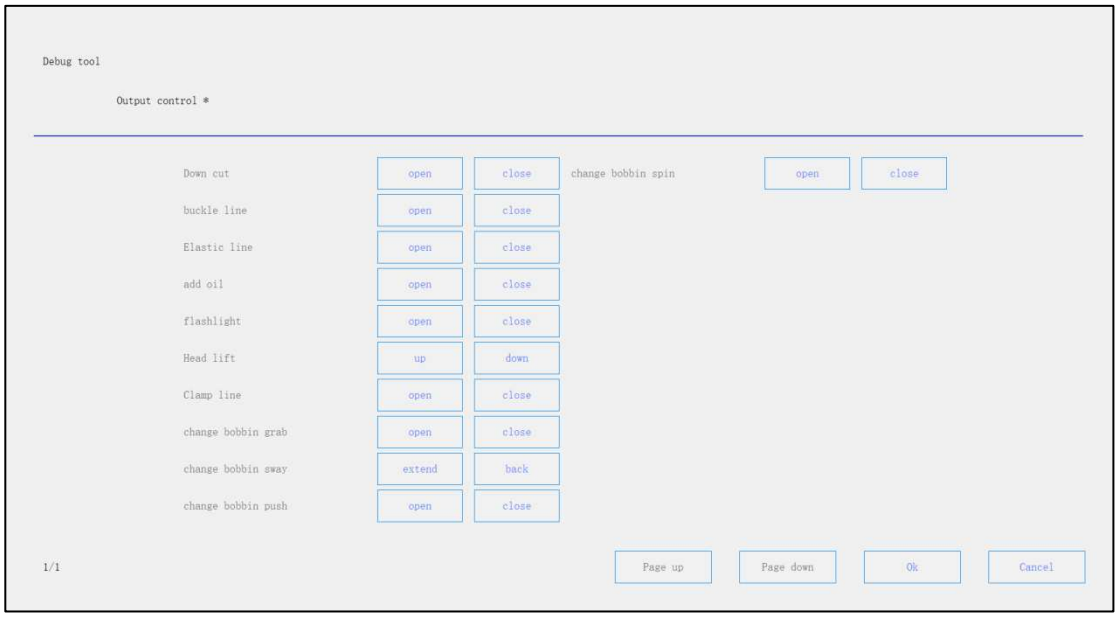
9.1 Brief introduction of software settings



1. Language setting: set the language of interface.
2. Master upgrade: Upgrade the main control panel.
3. Interface upgrade: Upgrade the interface program.
4. Old parameter input: Input the parameters of old machines.
5. Parameter input: Input the new parameters.
6. Parameter output: Output this machine’s parameters.
7. Parameter restore: Restore the parameter data.
8. Time setting: Set the time of system.

Chapter X. Brief Introduction of Output Control

10.1 Output control



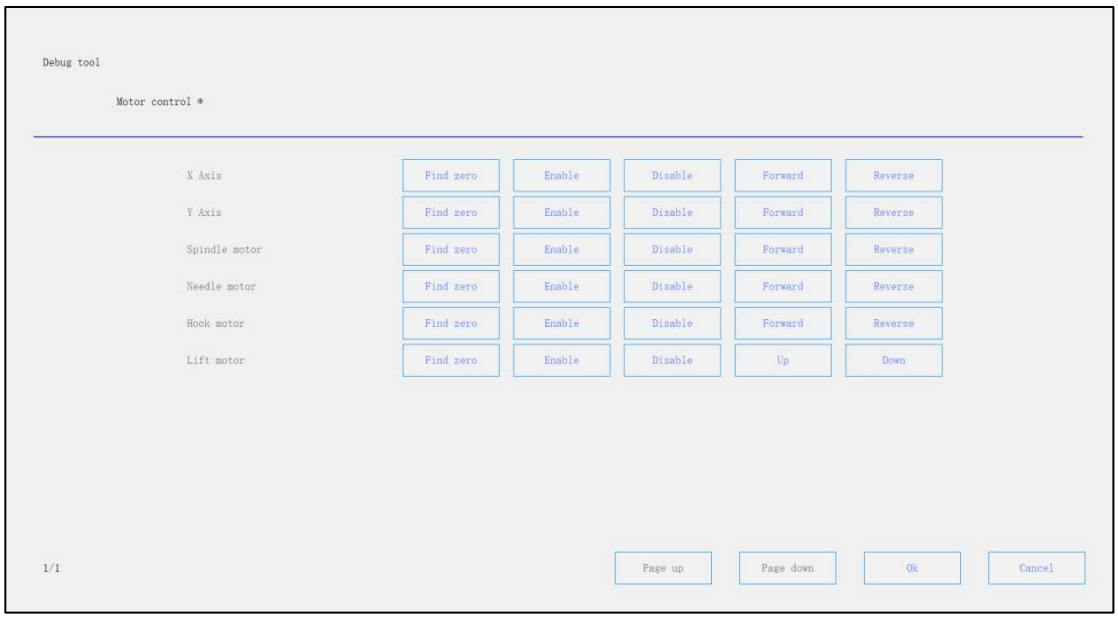
1. Down cut: Set the lower knife cutting through this button, open or close.
2. Buckle line: Set the buckle line, open or close.
3. Elastic line: Set the elastic line, open or close.
4. Add oil: Set the oiling, open or close.
5. Flashlight: Set the flashlight, open or close.
6. Head lift: Set the head lift or down.
7. Clamp line: Set the clamp line, open or close.
8. Change bobbin grab: Set the change bobbin grab, open or close.
9. Change bobbin sway: Set the change bobbin sway, extend or back.
10. Change bobbin push: Set the change bobbin push, open or close.

11. Change bobbin spin: Set the change bobbin spin, open or close.

12. Install the first shuttle case: Press this function key to configure the installation of the first shuttle case and select "Install".

Chapter XI． Brief Introduction of Motor Control

11.1 Introduction of motor control



1. X Axis: Set the X Axis, choose to Find zero, Enable, Disable, Forward, Reverse.

2. Y Axis: Set the Y Axis, choose to Find zero, Enable, Disable, Forward, Reverse.

3. Spindle motor: Set the spindle motor, choose to Find zero, Enable, Disable, Forward, Reverse.

4. Needle motor: Set the needle motor, choose to Find zero, Enable, Disable, Forward, Reverse.

5. Hook motor: Set the hook motor, choose to Find zero, Enable, Disable, Forward, Reverse.

6. Lift motor: Set the lift motor, choose to Find zero, Enable, Disable, Up, Down.

Chapter XII． Brief Introduction of Hardware Configuration

12.1 Hardware configuration

1. 机器类型：指机器的类型。
Machine type: It means the type of machine.

2. 产品类型：指机器产品的类型。
Product type: It means the type of products.

3. 机头数：指机头的个数。
Number of heads: number of heads.

4. 机头针数：指机头针的个数。
Number of needles per head: The number of needles per head.

5. X 轴配置：X 轴配置包括无该轴和有该轴。
X axis configuration: It includes ‘Have this axis’ and ‘Nothis axis’

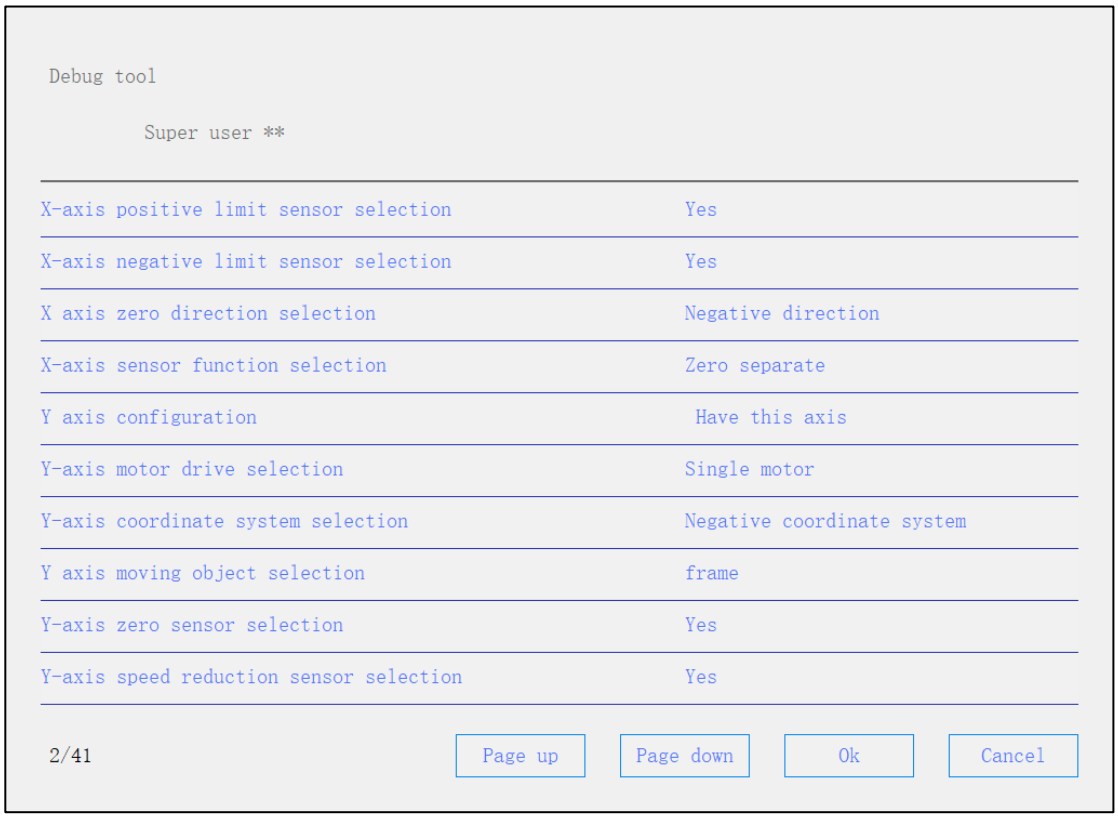
6. X 轴电机驱动选择：X 轴电机驱动选择包括双电机和单电机。
X-axis motor drive selection: Includes Single motor and double motors.

7. X 轴坐标系统选择：X 轴坐标系统选择包括坐标系统为正和坐标系统为负。
X-axis coordinate system selection: Includes Positive and Negative coordinate system.

8. X 轴移动对象选择：X 轴移动对象选择包括框和机头。
X-axis moving object selection: Includes frame and head.

9. X 轴零位传感器选择：X 轴零位传感器选择包括有和无。
X-axis zero sensor selection: Includes Yes and No.

10. X 轴降速传感器选择：X 轴降速传感器选择包括有和无。
X-axis speed reduction sensor selection: Includes Yes and No.



11. X-axis positive limit sensor selection: Includes Yes and No.

12. X-axis negative limit sensor selection: Includes Yes and No.

13. X-axis zero direction selection: Includes Positive and Negative direction.

14. X-axis sensor function selection: Includes: Zero separate and Zero speed reduction.

15. Y axis configuration: Includes ‘Have this axis’ and ‘No this axis’

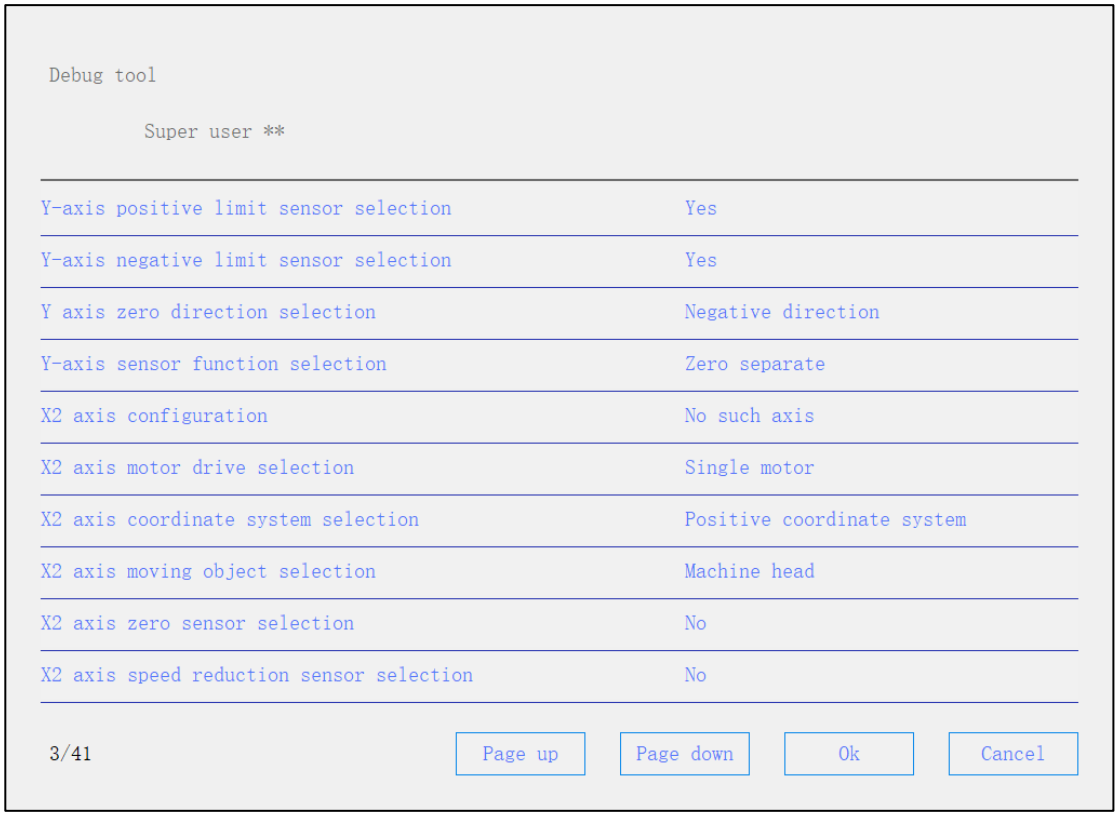
16. Y-axis motor drive selection: Includes Single motor and double motors.

17. Y-axis coordinate system selection: Includes Positive and Negative coordinate system.

18. Y-axis moving object selection: Includes frame and head.

19. Y-axis zero sensor selection: Includes Yes and No.

20. Y-axis speed reduction sensor selection: Includes Yes and No.



21. Y-axis positive limit sensor selection: Includes Yes and No.

22. Y-axis negative limit sensor selection: Includes Yes and No.

23. Y-axis zero direction selection: Includes Positive and Negative direction.

24. Y-axis sensor function selection: Includes: Zero separate and Zero speed reduction.

25. X2 axis configuration: Includes ‘Have such axis’ and ‘No such axis’

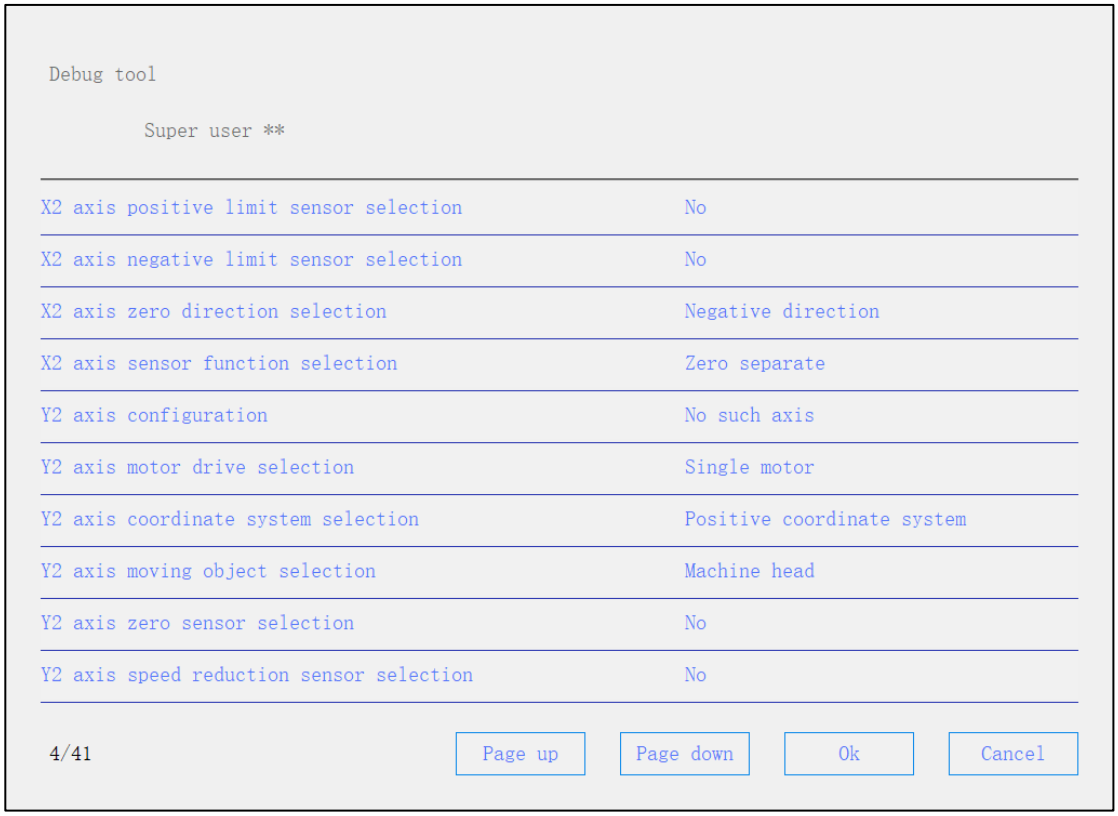
26. X2 axis motor drive selection: Includes Single motor and double motor.

27. X2 axis coordinate system selection: Includes Positive and Negative coordinate system.

28. X2 axis moving object selection: Includes frame and head.

29. X2 axis zero sensor selection: Includes Yes and No.

30. X2 axis speed reduction sensor selection: Includes Yes and No.



31. X2 axis positive limit sensor selection: Includes Yes and No.

32. X2 axis negative limit sensor selection: Includes Yes and No.

33. X2 axis zero direction selection: Includes Negative direction and positive direction.

34. 。X2 axis sensor function selection: Includes zero separate and speed reduction function.

35. Y2 axis configuration: Includes Have such axis and No such axis.

36. .Y2 axis motor drive selection: Includes single motor and double motors.

37. Y2 axis coordinate selection: Includes Positive coordinate system and negative coordinate system.

38. Y2 axis moving objective selection: Includes frame and head.

39. Y2 axis zero sensor selection: Includes Yes and No.

40. Y2 axis speed reduction sensor selection: Includes Yes and No.

41. Y2 axis positive limit sensor selection: Includes Yes and No.

42. Y2 axis negative limit sensor selection: Includes Yes and No.

43. Y2 axis zero direction selection: Includes Negative direction and positive direction.

44. Y2 axis sensor function selection: Includes zero separate and speed reduction function.

45. Sewing main shaft configuration: Includes have this axis and no this axis.

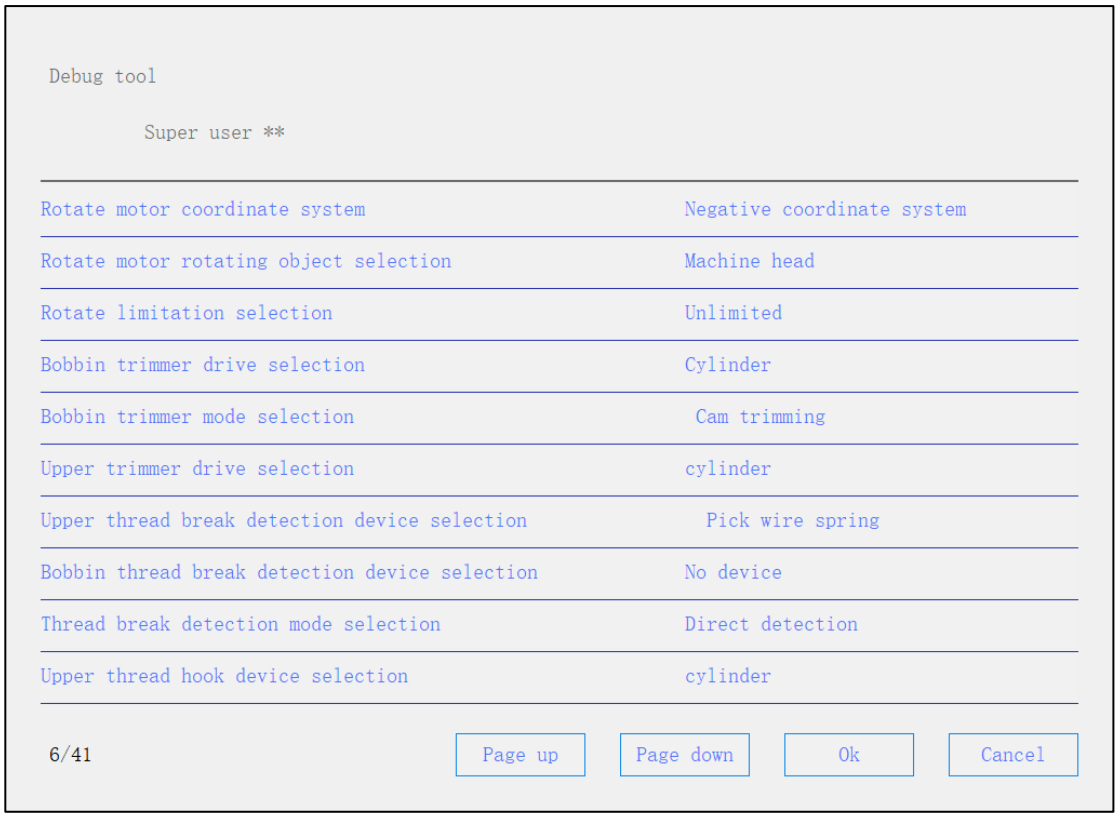
46. Needle and rotary hook configuration: Includes Needle rotary hook separated.

47. Lift motor configuration: Includes Have such axis and No such axis.

48. Presser foot motor configuration: Includes Have such axis and No such axis.

49. Rotate motor configuration: Includes Have this axis and no this axis.

50. 。Rotate motor coordinate system: Includes single motor and double motors.



51. Rotate motor coordinate system: Includes Negative and positive coordinate

52. motor rotating object selection: Includes machine head and frame.

53. Rotate limitation selection: Includes Unlimited and Limited.

54. Bobbin trimmer drive selection: Includes cylinder, AC motor, Stepper motor, Electromagnet, without bobbin trimmer device.

55. Bobbin trimmer mode selection: Includes Cam trimming, Dynamic trimming, Static trimming, Cam trimming separately.

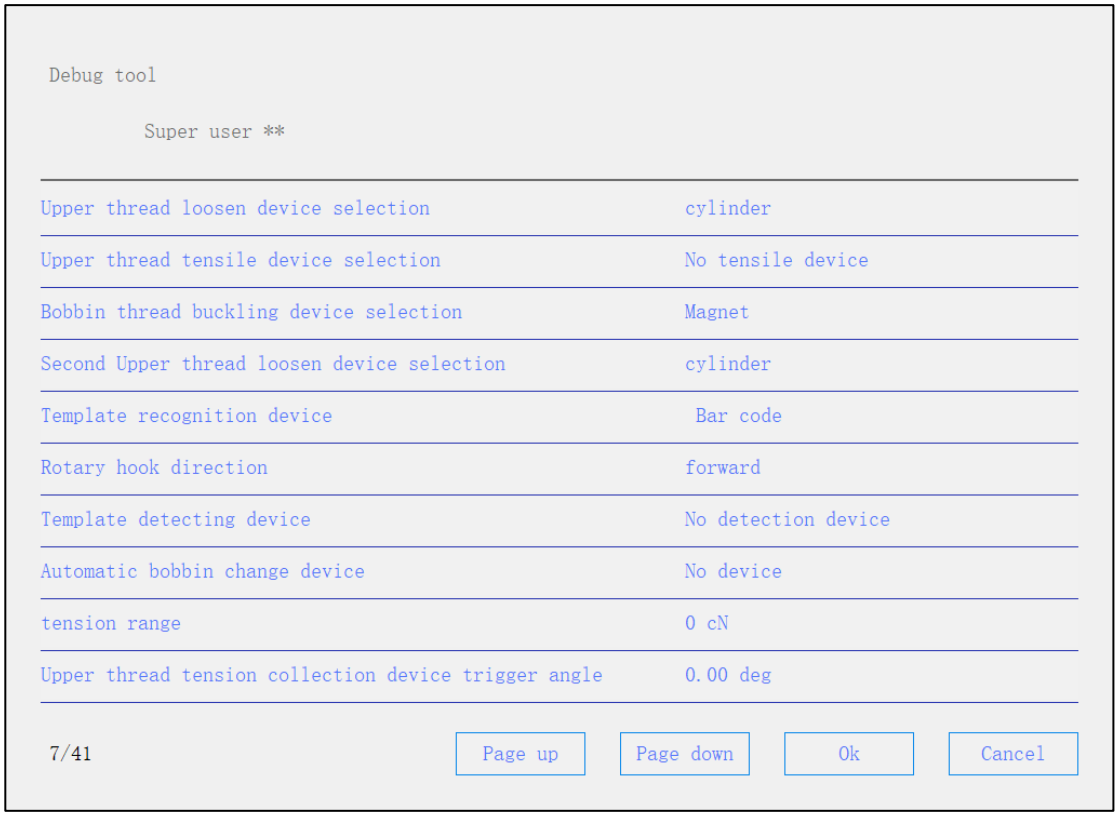
56. Upper trimmer drive selection: Includes cylinder and without upper trimmer drive.

57. Upper thread break detection device selection: Includes Pick wire spring, electronic disconnector, and no device.

58. Bobbin thread break detection device selection: Includes Grating wheel, magnetic encoder.

59. Thread break detection mode selection: Includes Direct detection and Peripheral board detection.

60. Upper thread hook device selection: Includes cylinder, electromagnet and no thread hook device.



61. 松面线装置选择：松面线装置包括气缸、电磁铁和无松面线装置。
Upper thread loosen device selection: Includes cylinder, electromagnet and no device.

62. 拉面线装置选择：拉面线装置包括气缸、电磁铁和无拉面线装置。
Upper thread tensile device selection: Includes cylinder, electromagnet and no device.

63. 扣底面线装置选择：扣底线装置包括气缸、电磁铁和无扣底线装置。
Bobbin thread buckling device selection: Includes cylinder, electromagnet and no device.

64. Second Upper thread loosen device selection: Includes cylinder, electromagnet and no device.

65. Template recognition device: Includes Bar code, code hole and no device.

66. Rotary hook direction: Includes Forward, Left, Right and Up.

67. Template detection device: Includes No detection device and have detection device.

68. Automatic bobbin change device: Includes no device, Japan bobbin change device and Richpeace bobbin change device.

69. Tension range: Set the tension range of collection device.

70. Upper thread tension collection device trigger angle: Set the angle of upper thread tension collection device trigger angle.

71. X frame sensor coordinates: Set the X frame sensor coordinates through this button, dimension is 0.01mm.

72. Y frame sensor coordinates: Set the Y frame sensor coordinates through this button, dimension is 0.01mm.

73. Main shaft stop sensor angle: Set the main shaft stop sensor angle, dimension is 0.01°

74. Lift sensor coordinates: Set the lift sensor coordinates, dimension is 0.01mm.

75. Presser foot sensor coordinates: Set the presser foot sensor coordinates, dimension is 0.01mm.

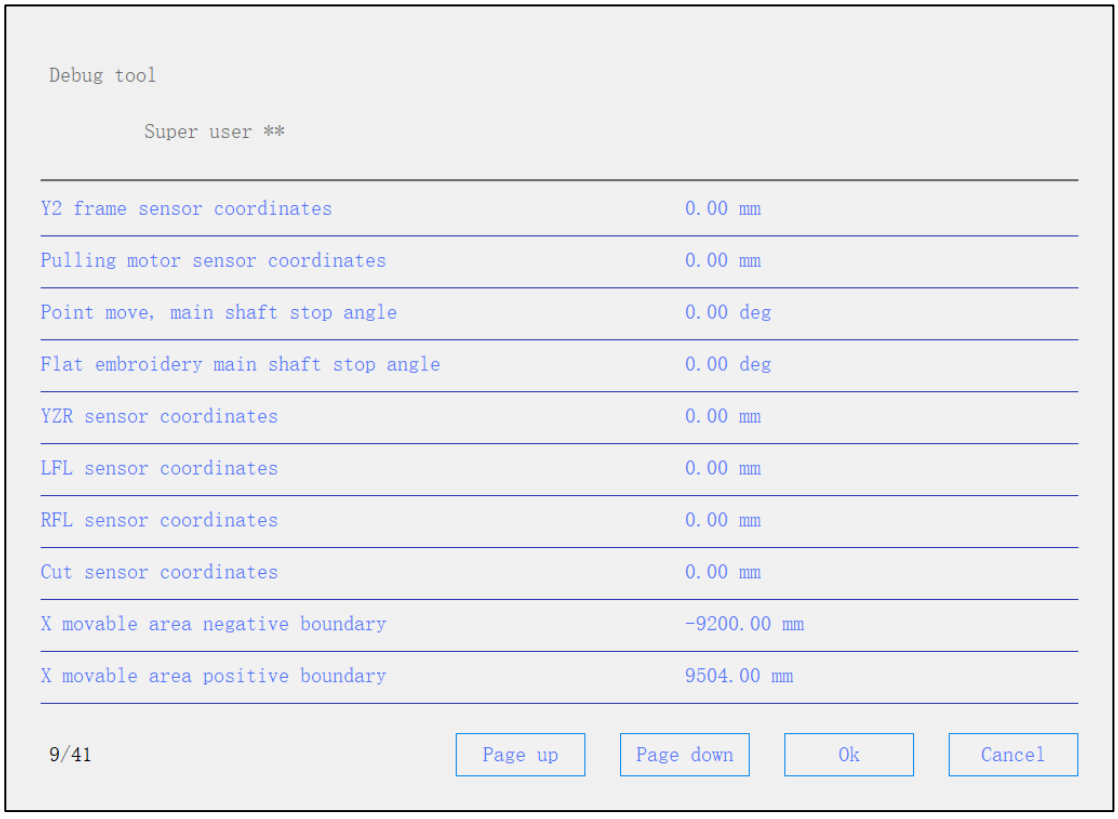
76. Rotate sensor angle: Set the rotate sensor angle, dimension is 0.01mm.

77. Hook thread, main shaft sensor angle: Set the main shaft sensor angle, dimension is 0.01°

78. Perforation head stop angle: Set the perforation head stop angle, dimension is 0.01°

79. Cutter stop angle: Set the cutter stop angle, dimension is 0.01°

80. X2 frame sensor coordinates: Set the X2 frame sensor coordinates, dimension is 0.01mm.



81. Y2 frame sensor coordinates: Set the Y2 frame sensor coordinates, dimension is 0.01mm

82. Pulling motor sensor coordinates: Set the pulling motor sensor coordinates, dimension is 0.01mm.

83. Point move, main shaft stop angle: Set the main shaft stop sensor angle, dimension is 0.01°

84.Flat embroidery main shaft stop angle: Set the main shaft stop angle, dimension is 0.01°

85. YZR sensor coordinates: Set the YR frame sensor coordinates, dimension is 0.01mm.

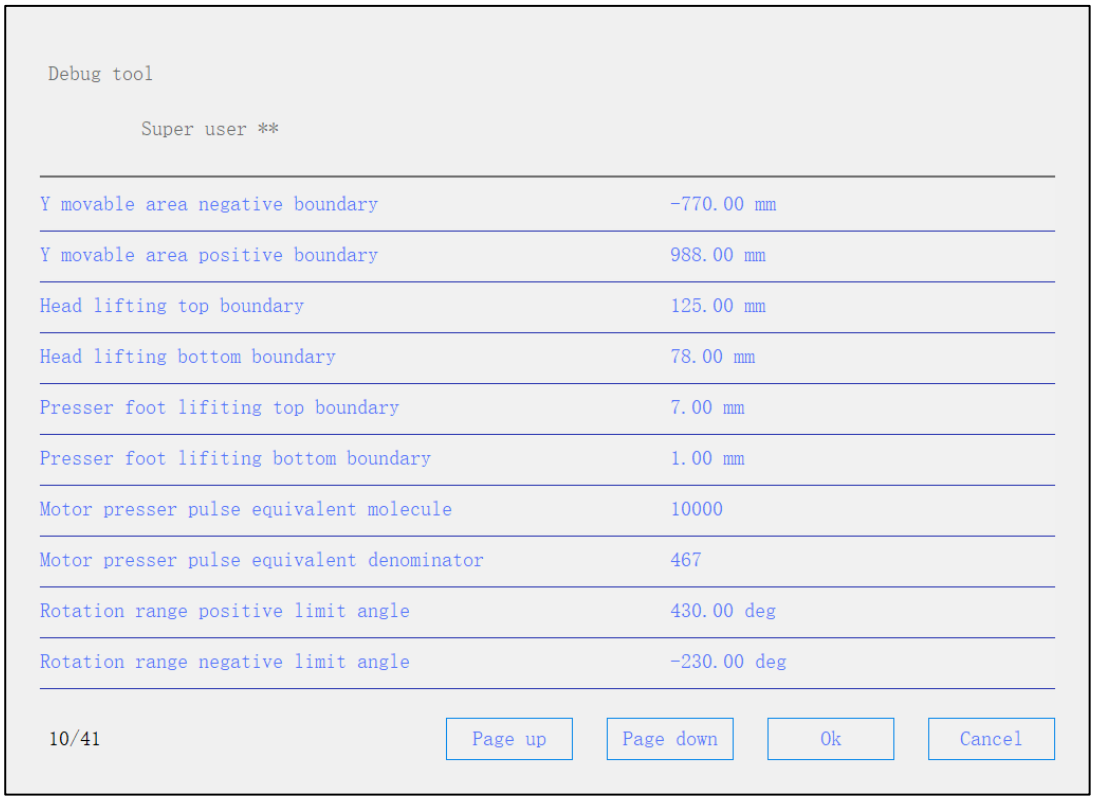
86. LFL sensor coordinates: Set the sensor coordinates, dimension is 0.01mm.

87. RFL frame sensor coordinates: Set the RFL frame sensor coordinates, dimension is 0.01mm.

88. Cut sensor coordinates: Set the cut sensor coordinates.

89. X movable area negative boundary: Range-2147483648—2147483647, dimension is 0.01mm.

90. X movable area positive boundary: Range-2147483648—2147483647, dimension is 0.01mm.



91. Y movable area negative boundary: Range-2147483648—2147483647, dimension is 0.01mm.

92. Y movable area positive boundary: Range-2147483648—2147483647, dimension is 0.01mm.

93.Head lifting top boundary: Set the head lifting top boundary, dimension is 0.01mm.

94.Head lifting bottom boundary: Set the head lifting bottom boundary, dimension is 0.01mm.

95.Presser foot lifting top boundary: Set the presser foot lifting top boundary, dimension is 0.01mm.

96.Presser foot lifting bottom boundary: Set the presser foot lifting bottom boundary, dimension is 0.01mm.

97.Motor presser pulse equivalent molecule: Set the motor presser pulse equivalent molecule, Default 1000000.

98.Motor presser pulse equivalent denominator: Set the motor presser pulse equivalent denominator, Default 1115.

99.Rotation range positive limit angle: Set the rotation range positive limit angle, dimension is 0.01mm.

100. Rotation range negative limit angle: Set the rotation range negative limit angle, dimension is 0.01mm.

101. Perforation head migration in X: Set the perforation head migration, dimension is 0.01mm.

102. Perforation head migration in Y: Set the perforation in Y, dimension is 0.01mm.

103. X sewing area negative boundary: range -2147483648—2147483647, dimension is 0.01mm.

104. X sewing area positive boundary: range -2147483648—2147483647, dimension is 0.01mm.

105. Y sewing area negative boundary: range -2147483648—2147483647, dimension is 0.01mm.

106. Y sewing area positive boundary: range -2147483648—2147483647, dimension is 0.01mm.

107. Perforation area negative boundary in X: range -2147483648—2147483647, dimension is 0.01mm.

108. Perforation area positive boundary in X: range -2147483648—2147483647, dimension is 0.01mm.

109. Perforation area negative boundary in Y: range -2147483648—2147483647, dimension is 0.01mm.

110. Perforation area positive boundary in Y: range -2147483648—2147483647, dimension is 0.01mm.

111. Right sewing head migration in X: Set the right sewing head migration in X, dimension is 0.01mm.

112. Right sewing head migration in Y: Set the right sewing head migration in Y, dimension is 0.01mm.

113. Cutter head migration in X: Set the cutter head migration in X, dimension is 0.01mm.

114. Cutter head migration in Y: Set the cutter head migration in Y, dimension is 0.01mm.

115. Cut area negative boundary in X: range -2147483648—2147483647, dimension 0.01mm.

116. Cut area positive boundary in X: range -2147483648—2147483647, dimension 0.01mm.

117. Cut area negative boundary in Y: range -2147483648—2147483647, dimension 0.01mm.

118. Cut area positive boundary in Y: range -2147483648—2147483647, dimension 0.01mm.

119. 。XY start stop speed: Set the speed of XY start-stop, range 1-100 mm/s, Default 10.

120. XY zero reset speed: Set the speed of XY zero reset, range 1-100 mm/s, Default 100.

121. XY simulate running speed: Set the speed of XY simulate running, range 1-1000 mm/s, Default 300.

122. XY movement acceleration: Set the acceleration of XY movement, range 1-10000 mm/s^2, Default 1000.

123. XY brake acceleration: Set the acceleration of XY brake, range 1-10000 mm/s^2, Default 1000.

124. XY manual movement speed 1: Set the manual movement speed 1 of XY, range 1-1000 mm/s, Default 10.

125. XY manual movement speed 2: Set the manual movement speed 2 of XY, range 1-1000 mm/s, Default 100.

126. XY manual movement speed 3: Set the manual movement speed 3 of XY, range 1-1000 mm/s, Default 100.

127. XY maximum moving speed: Set the maximum moving speed of XY, range 1-1000 mm/s, Default 300.

128. Main shaft start stop speed: Set the start-stop speed of main shaft, range 1-300 rpm, Default 100.

129. Main shaft zero reset speed: Set the zero reset speed of main shaft, range 1-3000 rpm, Default 120.

130. Main shaft running speed: Set the running speed of main shaft, range 1-3000 rpm, Default 300.

131. Main shaft running acceleration: Set the running acceleration of main shaft, range 1-100 r/ss, Default 50.

132. Main shaft brake acceleration: Set the brake acceleration of main shaft, range is 1-100 r/ss, Default 100.

133. Sewing main shaft max. speed: Set the max. speed of sewing main shaft, range is 1-3000 rpm Default 3000.

134. Head lift start end speed: Set the start-stop speed of head lift, range is 1-250 mm/s, Default 10.

135. Head lift zero reset speed: Set the zero reset speed of head lift, range 1-250, Default 50.

136. Head lift move speed: Set the movement speed of head lift, range is 1-250, Default 200.

137. Head lift acceleration: Set the acceleration of head lift, range is 1-10000, dimension is mm/s^2, Default 500.

138. Head movement brake acceleration: Set the brake acceleration of head movement, range is 1-10000, dimension is mm/s^2, default 1000.

139. Presser foot lifting speed: Set the lifting speed of presser foot, range is 1-100, dimension is mm/s, default 10.

140. Presser foot lift zero reset speed: Set the speed of lift zero reset of presser foot, range is 1-100, dimension is mm/s, default 30.

141. Presser foot lifting speed: Set the lifting speed of presser foot, range is 1-100, dimension is mm/s, default 10.

142. Presser foot lifting acceleration: Set the lifting acceleration of presser foot, range is 1-10000mm/s^2, default 500.

143. Presser foot lifting brake acceleration: Set the lifting brake acceleration of presser foot, range 1-10000mm/s^2,default 1000.

144. Head rotation start stop speed: Set the start-stop speed of head rotation.

145. Head rotation zero reset speed: Set the zero reset speed of head rotating.

146. Head rotate speed: Set the speed of head rotating.

147. Head rotate acceleration: Set the acceleration of head rotate.

148. Head rotate brake acceleration: Set the brake acceleration of head rotate.

149. Head rotate Max. speed: Set the maximum speed of head rotate.

150. Min. pen drawing speed: Set the minimum speed of pen drawing.

151. Max. pen drawing speed: Set the maximum pen drawing speed.

152. Pen drawing acceleration: Set the acceleration of pen drawing.

153. Pen drawing decrease min. deviation angle: Set the decrease min. deviation angle of pen drawing.

154. Conveyor belt start stop speed: Set the start-stop speed of conveyor belt.

155. Manual speed of conveyor belt: Set the manual speed of conveyor belt

156. Conveyor belt walking speed: Set the walking speed of conveyor belt.

157. Conveyor walking acceleration: Set the walking acceleration of conveyor belt.

158. Conveyor brake acceleration: Set the brake acceleration of conveyor belt.

159. Template frame start and stop speed: Set the start-stop speed of template frame.

160. Template frame walking speed: Set the walking speed of template frame.

161. Template frame walking accelerator: Set the walking accelerator of template frame.

162. Template frame brake acceleration: Set the brake acceleration of template frame.

163. Upper head rotate zero reset compensation angle: Set the rotate zero reset compensation angle of upper head

164. Lower head rotate zero reset compensation angle: Set the rotate zero reset compensation angle of lower head

165. Main shaft zero reset compensation angle: Set the zero reset compensation angle of main shaft.

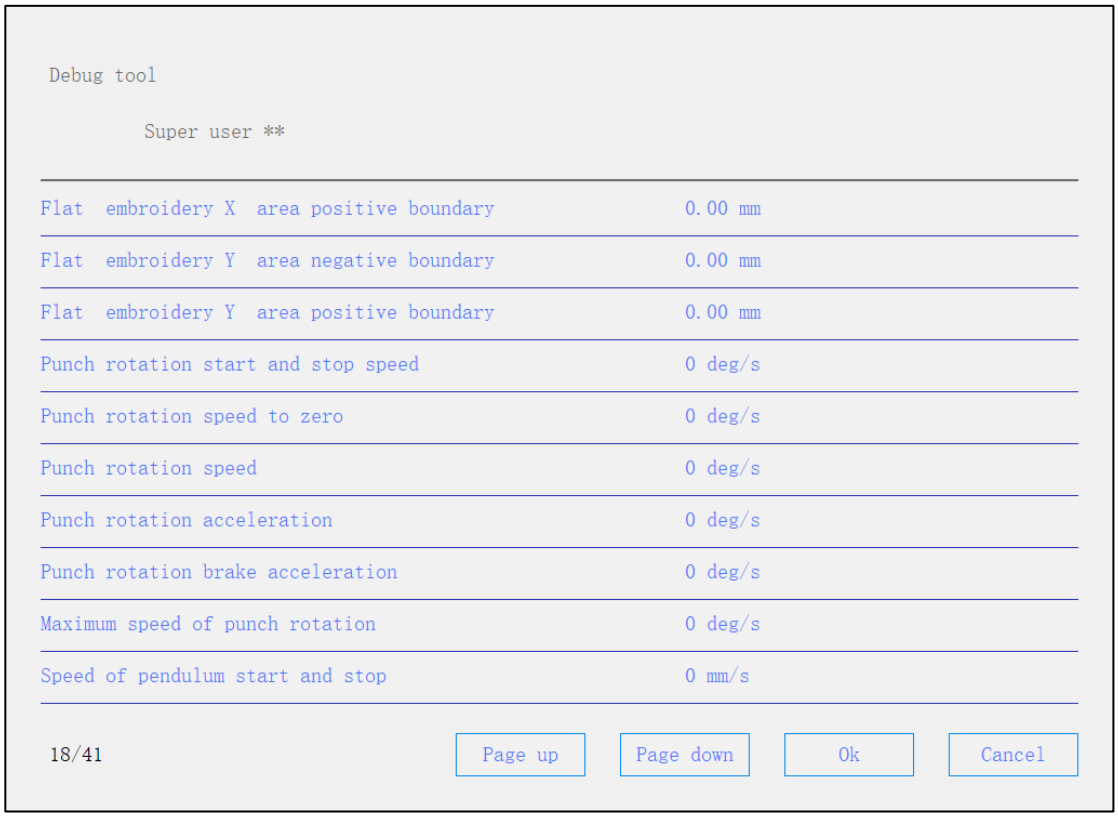
166. X-axis zero reset compensation: Set the X-axis zero reset compensation

167. Y-axis zero reset compensation: Set the Y-axis zero reset compensation

168. Flat embroidery head migration in X: Set the migration in X of flat embroidery, dimension is 0.01mm.

169. Flat embroidery head migration in Y: Set the migration in Y of flat embroidery, dimension is 0.01mm.

170. Flat embroidery X area negative boundary: range -2147483648—2147483647, dimension is 0.01mm.



171. Flat embroidery X area positive boundary: range -2147483648—2147483647, dimension is 0.01mm.

172. Flat embroidery Y area negative boundary: range -2147483648—2147483647, dimension is 0.01mm.

173. Flat embroidery Y area positive boundary: range -2147483648—2147483647, dimension is 0.01mm.

174. Punch rotation start and stop speed: Set the speed of punch rotation start and stop.

175. Punch rotation speed to zero: Set the zero reset of punch rotation.

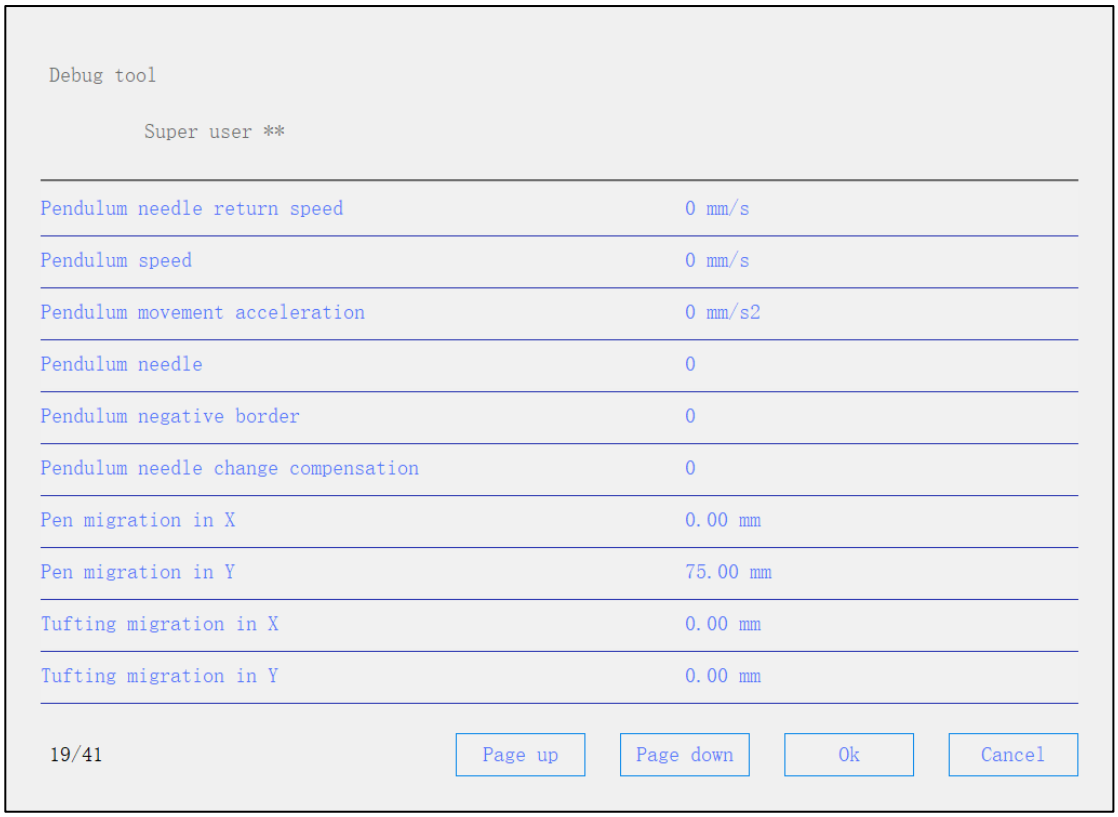
176. Punch rotation speed: Set the speed of punch rotation.

177. Punch rotation acceleration: Set the acceleration of punch rotation.

178. Punch Rotation brake acceleration: Set the brake acceleration of punch rotation.

179. Maximum speed of punch rotation: Set the maximum speed of punch rotation.

180. Speed of pendulum start and stop: Speed of pendulum start and stop



181. Pendulum needle return speed: Set the speed of pendulum needle zero reset.

182. Pendulum speed: Set the pendulum speed.

183. Pendulum movement acceleration: Set the movement acceleration of pendulum needle.

184. Pendulum needle: Set the positive boundary of pendulum needle.

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185. Pendulum negative boundary: Set the negative boundary of pendulum needle.

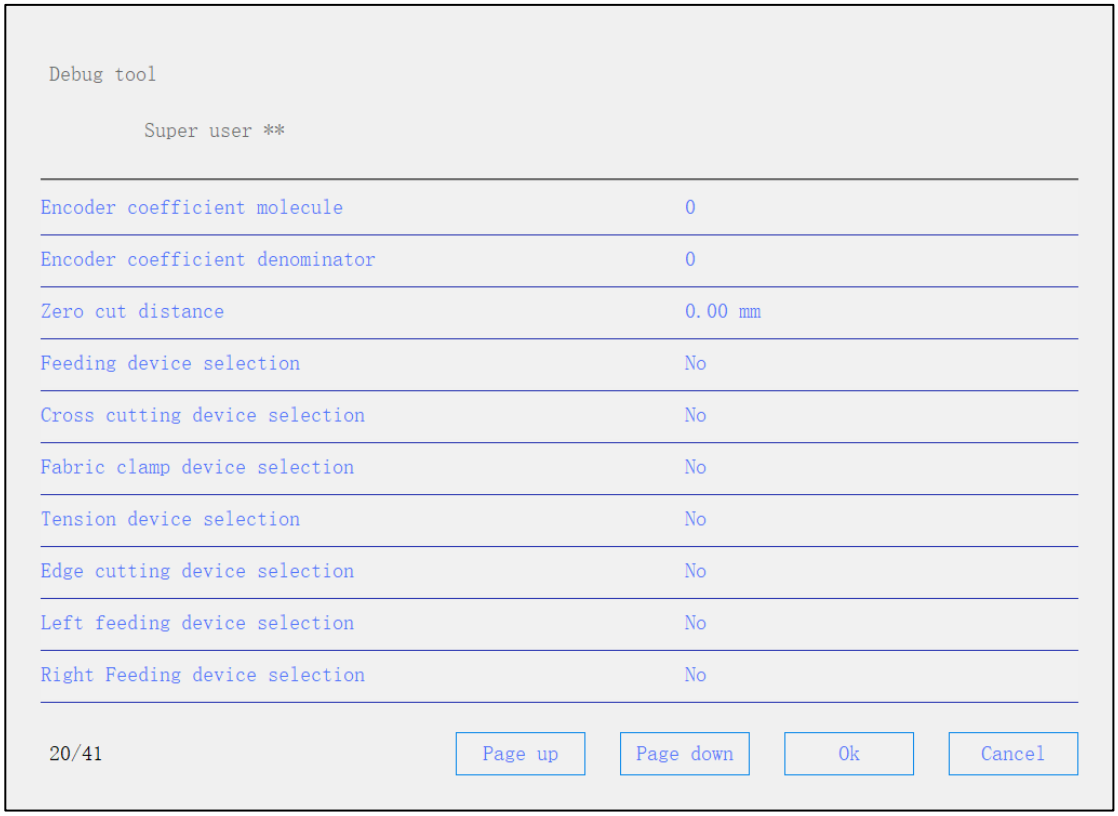
186. Pendulum needle change compensation: Set the pendulum needle change compensation.

187. Pen migration in X: Set the X coordinates of pen migration, dimension is 0.01mm.

188. Pen migration in Y: Set the Y coordinates of pen migration, dimension is 0.01mm.

189. Tufting migration in X: Set the X coordinates of tufting migration, dimension is 0.01mm.

190. Tufting migration in Y: Set the Y coordinates of tufting migration, dimension is 0.01mm.



191. Encoder coefficient molecule: Set the encoder coefficient molecule.

192. Encoder coefficient denominator: Set the encoder coefficient denominator.

193. Zero cut distance: Range -2147483648—2147483647, dimension is 0.01mm.

194. Feeding device selection: Includes Yes and No.

195. Cross cutting device selection: Includes Yes and No.

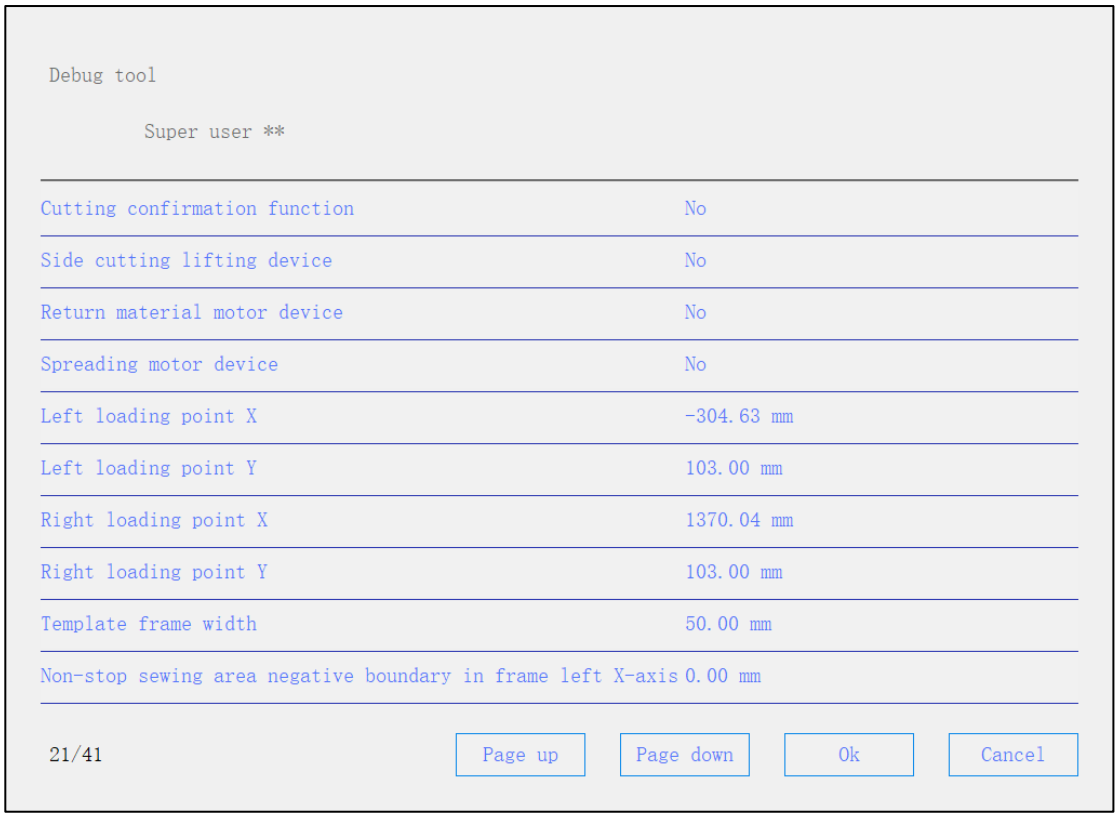
196. Fabric clamp device selection: Includes Yes and No.

197. Tension device selection: Includes Yes and No.

198. Edge cutting device selection: Includes Yes and No.

199. Left feeding device selection: Includes Yes and No.

200. Right feeding device selection: Includes Yes and No.



201. Cutting confirmation function: Includes Yes and No.

202. Side cutting lifting device: Includes Yes and No.

203. Return material motor device: Includes Yes and No.

204. Spreading motor device: Spreading motor device
Spreading motor device: Includes Yes and No.

205. Left loading point X: Set the point X of left loading, range -2147483648—2147483647, dimension is 0.01mm.

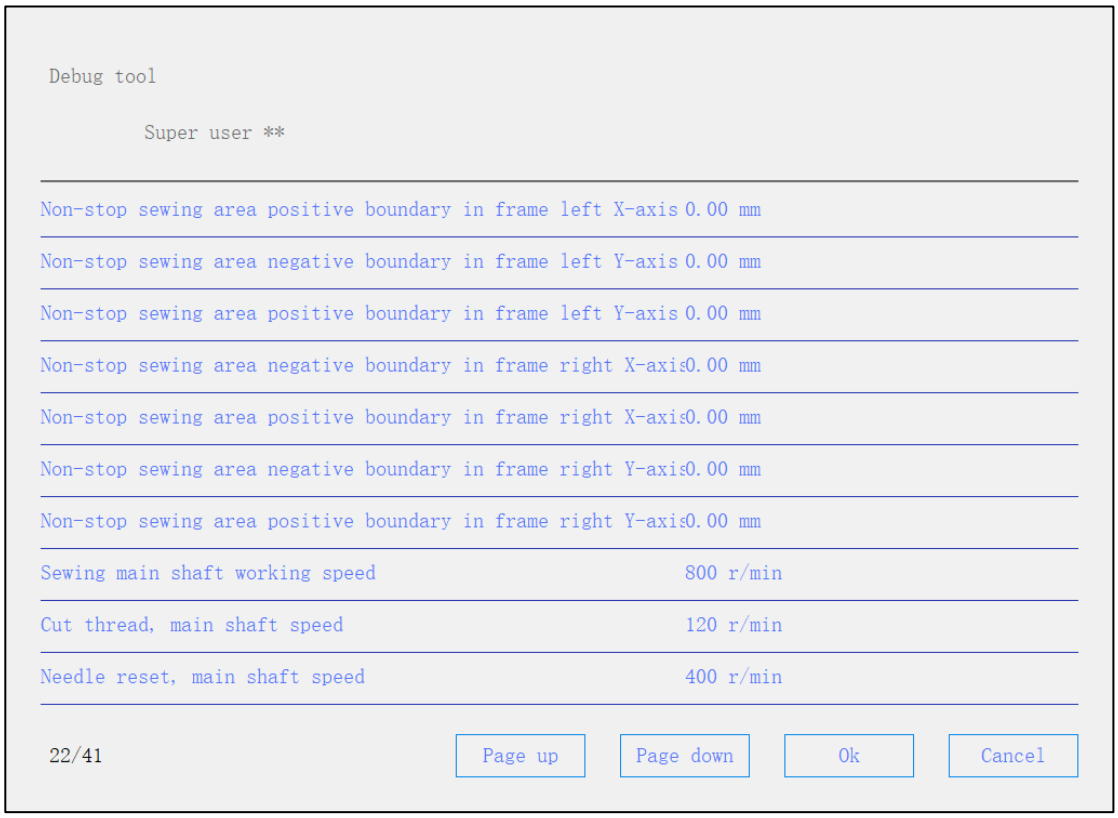
206. Left loading point Y: Set the point Y of left loading, range -2147483648—2147483647, dimension is 0.01mm.

207. Right loading point X: Set the point X of right loading, range -2147483648—2147483647, dimension is 0.01mm.

208. Right loading point Y: Set the point Y of right loading, range -2147483648—2147483647, dimension is 0.01mm.

209. Template frame width: Set the width of template, range -2147483648—2147483647, dimension is 0.01mm.

210. Non-stop sewing area negative boundary in frame left X-axis: Set this boundary, range -2147483648—2147483647, dimension is 0.01mm.



211. Non-stop sewing area positive boundary in frame left X-axis: Set this boundary, range -2147483648—2147483647, dimension is 0.01mm.

212. Non-stop sewing area negative boundary in frame left Y-axis: Set this boundary, range -2147483648—2147483647, dimension is 0.01mm.

213. Non-stop sewing area positive boundary in frame left Y-axis: Set this boundary, range -2147483648—2147483647, dimension is 0.01mm.

214. Non-stop sewing area negative boundary in frame right X-axis: Set this boundary, range -2147483648—2147483647, dimension is 0.01mm.

215. Non-stop sewing area positive boundary in frame right X-axis: Set this boundary, range -2147483648—2147483647, dimension is 0.01mm.

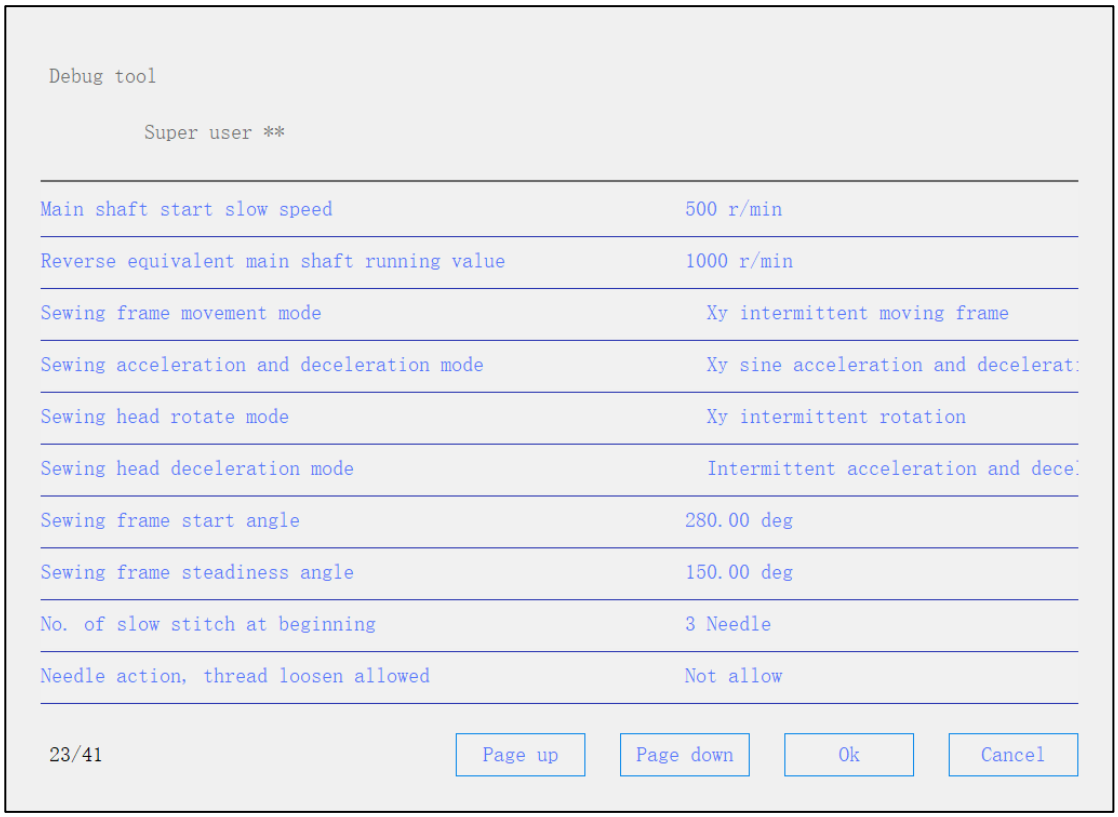
216. Non-stop sewing area negative boundary in frame right Y-axis: Set this boundary, range -2147483648—2147483647, dimension is 0.01mm.

217. Non-stop sewing area positive boundary in frame right Y-axis: Set this boundary, range -2147483648—2147483647, dimension is 0.01mm.

218. Sewing main shaft working speed: Set the speed of main shaft working, dimension is rpm.

219. Cut thread, main shaft speed: Set the rotate speed of main shaft cutting thread, dimension is rpm.

220. Needle reset, main shaft speed: Set the needle reset speed of main shaft, dimension is rpm.



221. Main shaft start slow speed: Set the start slow speed of main shaft, dimension is rpm.

222. Reverse equivalent main shaft running value: Set the running value of reverse equivalent main shaft.

223. Sewing frame movement mode: Choose the mode of sewing frame movement, includes XY intermittent moving frame and XY continuous moving frame.

224. Sewing acceleration and deceleration mode: Includes XY sine acceleration and deceleration, and no acceleration and deceleration.

225. Sewing head rotate mode: Includes XY intermittent rotation and continuous rotation.

226. Sewing head deceleration mode: Includes Intermittent acceleration and deceleration and no acceleration and deceleration.

227. Sewing frame start angle: Set the start angle of sewing frame, range 0-36000, dimension is 0.01°, default 28000.

228. Sewing frame steadiness angle: Set the steadiness angle of sewing frame, range 0-36000, dimension is 0.01°, default 15000.

229. No. of slow stitch at beginning: It means the number of needle from still to acceleration, range 0-10, dimension is 1, default 3.

230. Needle action, thread loosen allowed: Set the allowance, includes allow and not allow.

231. Needle action, tight bobbin spring allowed: Set the allowance of needle action, includes allow and not allow.

232. Needle action, catch upper thread allowed: Set the allowance of catch upper thread, includes allow and not allowed.

233. Needle action, needle swing allowed: Set the needle sewing, includes allow and not allowed.

234. Cut thread allowed: Set the allowance of cut thread, includes automatic thread trimming, data trimming and no trimming.

235. Trimmer cutting angle: Set the trimmer cutting angle. Range 0-36000, dimension is 0.01°,default 20000.

236. Trimming completion angle: Set the trimming completion angle, range 0-36000, dimension is 0.01°, default 6000.

237. Thread cut, upper thread loosen allowed: Set the allowance of loosen, includes allow and not allow.

238. Thread cut, tensile thread allowed: Set the allowance of tensile thread, includes allow and not allow.

239. Thread cut, catch upper thread allowed: Set the allowance of catching upper thread, includes allow and not allow.

240. Thread cut, presser foot lift allowed: Set the allowance of presser foot lift, includes allow and not allow.

241. No. of stitch detect if thread broken: Set the number of stitch detect, default 3.

242. Thread brake detection, main shaft angle: Set the main shaft angle, range 0-36000, dimension is 0.01°, default 3000.

243. Bobbin change reminder function: Set the count by piece number, reminder immediately by length, disable, delay length remind. Default Disable.

244. Bobbin thread length: Set the length of bobbin thread, dimension is 0.01mm, default 10000000.

245. Bobbin thread correction per stitch: Set the bobbin thread correction per stitch, dimension is 0.01mm.

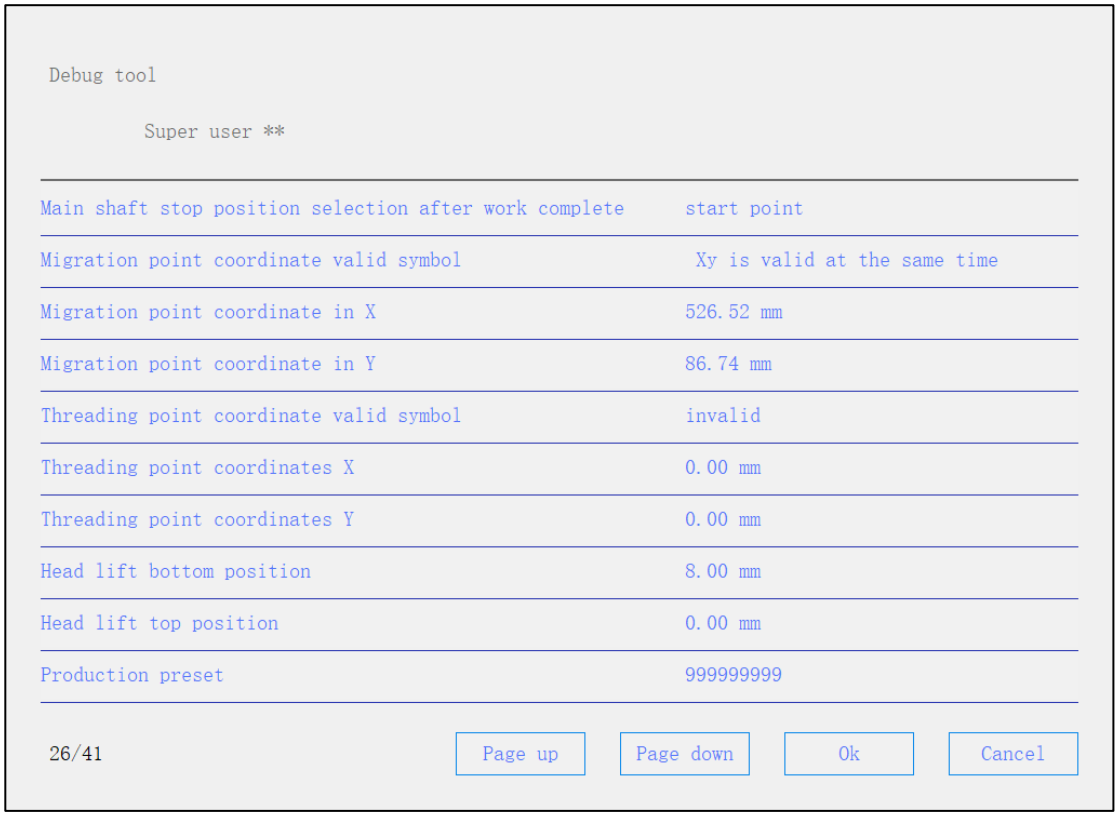
246. Bobbin change as per sewed pieces: Set the count of bobbin change pieces, default 0.

247. Oiling mode selection: No oiling, oiling intermittently by working hours, oiling intermittently by number of working needles, oiling continuously.

248. Oiling interval by needle stitch: default 10000.

249. Oiling interval by working time: dimension is second.

250. Oiling sustained time: Dimension is second.



251. 完成后停车位置选择：机器完成当前工作时的停车位置选择。可以设置为：当前位置、回起点、回上料点、回定位点、回偏移点。默认为：回偏移点。
Main shaft stop position selection after work complete: Current position, back to start position, feeding position, location point, offset point. Default is back to offset point.

252. Migration point coordinate valid symbol:

253. Migration point coordinate in X: Set the migration point coordinate in X, dimension 0.01mm.

254. Migration point coordinate in Y: Set the migration point coordinate in Y, dimension 0.01mm.

255. Threading point coordinate valid symbol: Set this valid symbol, such as, invalid, X valid, Y valid, XY valid concurrently. Default invalid.

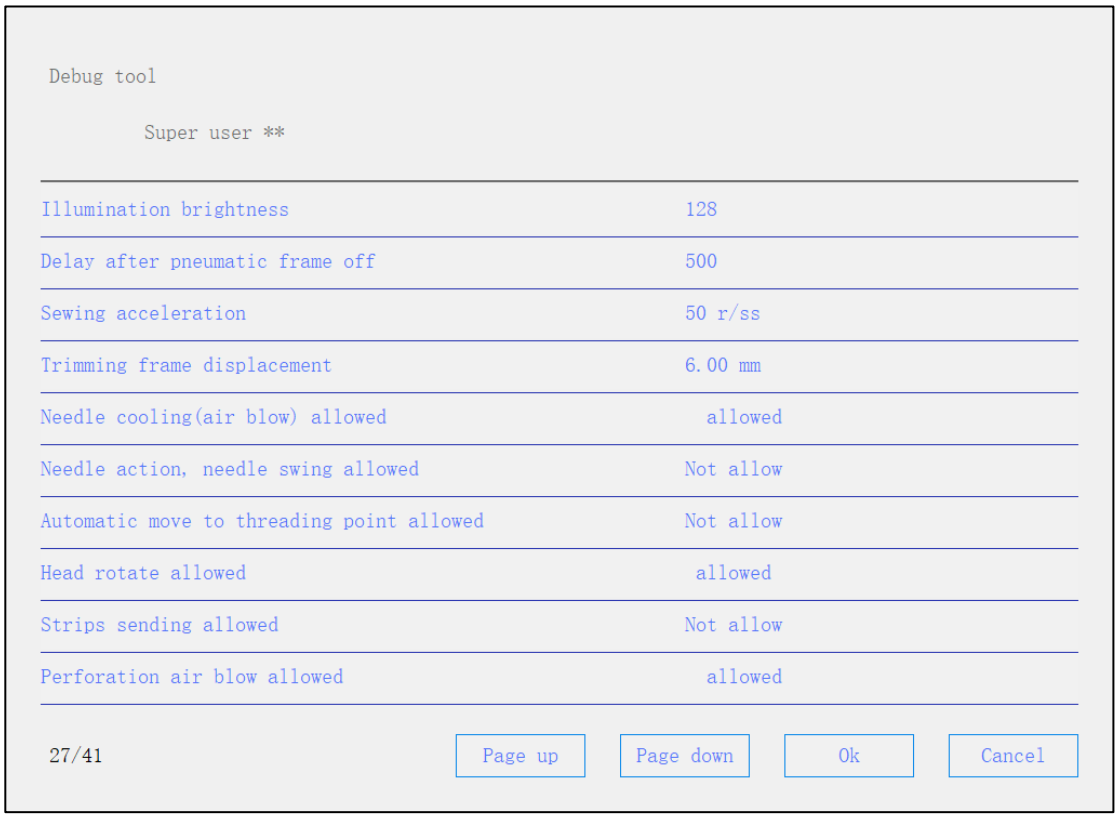
256. Threading point coordinate in X: Set the threading point coordinate in X, dimension 0.01mm.

257. Threading point coordinate in Y: Set the threading point coordinate in Y, dimension 0.01mm.

258. Head lift bottom position: Set the height of head lift bottom, dimension 0.01mm.

259. Head lift top position: Set the height of head lift top, dimension 0.01mm.

260. Production preset: Set the production preset.



261. Illumination brightness: Set the illumination brightness, range 0-255, default 128.

262. Delay after pneumatic frame off: Set the delaying time after pneumatic frame off.

263. Sewing acceleration: Set the sewing acceleration.

264. Trimming frame displacement: Set the trimming frame displacement.

265. Needle cooling(air blow) allowed: Set open or close to needle cooling.

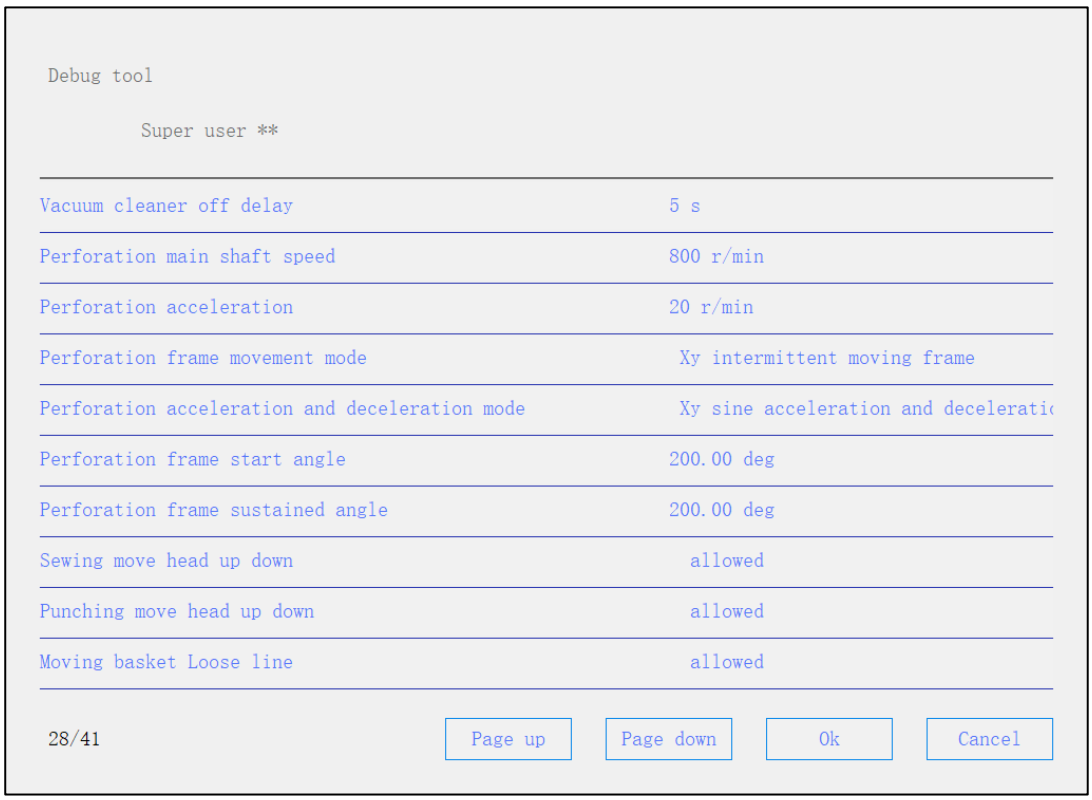
266. Needle action, needle swing allowed: Set open or close to needle action sewing.

267. Automatic move to threading point allowed: Set the automatic move to threading point.

268. Head rotate allowed: Set the head rotate.

269. Strips sending allowed: Set the allowance of strips sending.

270. Perforation air blow allowed: Set the allowance of perforation air blow.



271. Vacuum cleaner off delay: Set the time of vacuum cleaner off delaying.

272. Perforation main shaft speed: Set the rotate speed of perforation main shaft.

273. Perforation acceleration: Set the rotate speed of perforation acceleration.

274. Perforation frame movement mode: Set the mode of perforation frame movement.

275. Perforation acceleration & deceleration mode: Set the mode of perforation acceleration & deceleration.

276. Perforation frame start angle: Set the angle of perforation frame start.

277. Perforation frame sustained angle: Set the sustained angle of perforation frame.

278. Sewing move head up down: Set the allowance while sewing move head up and down.

279. Punching move head up down: Set the allowance while punching move up and down.

280. Moving basket loose line: Set the allowance while moving basket loose line.

281. Moving basket clamp line: Set the allowance while moving basket clamp line.

282. Auto boxing allowed: Set the allowance of auto boxing.

283. Software limit XY move allowed: Set the allowance of software limit XY move.

284. Software limit sewing head lifting allowed: Set the allowance of software limit sewing head lifting.

285. Software limit punch head lifting allowed: Set the allowance of software limit punch head lifting.

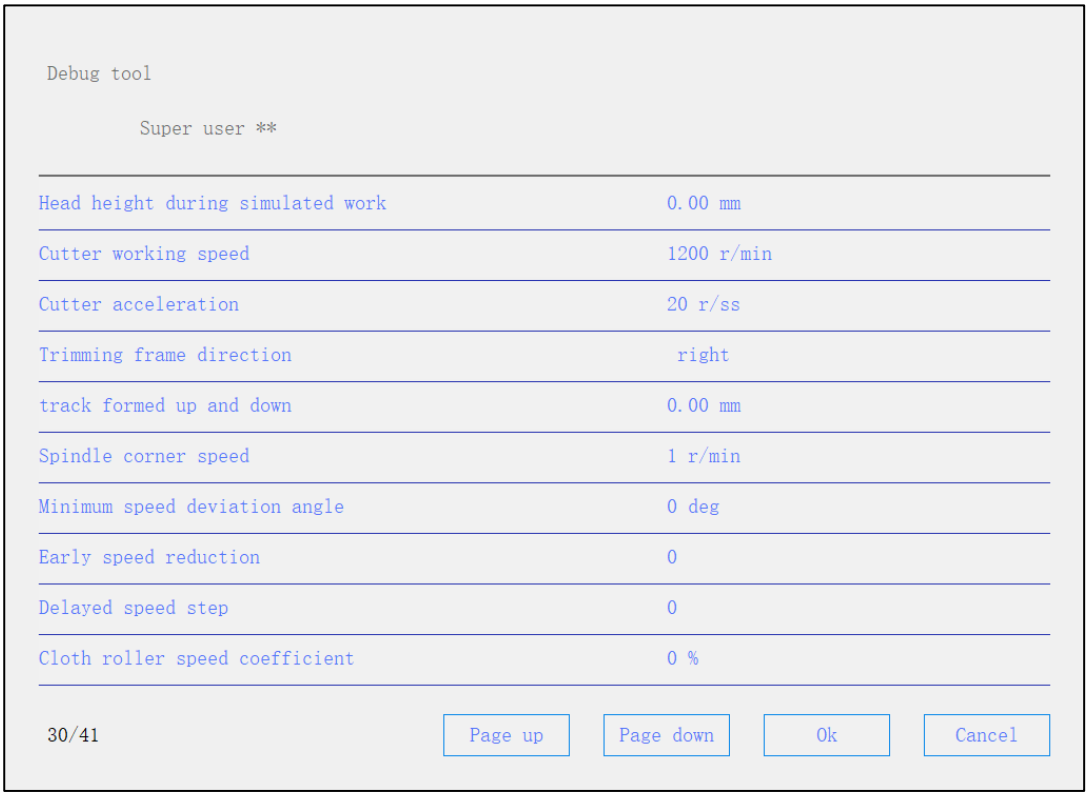
286. Software limit cutter head lift: Set the allowance of software limit cutter head lift.

287. Shuttle rotation angle: Set the angle of shuttle rotation sensor.

288. Rotational continuous angle: Set the angle of rotational continuous sensor.

289. Number of Needle hooks: Set the number of needle hooks.

290. Presser foot height during sewing work: Set the height of presser foot while sewing.



291. Head height during simulation work: Set the height of head while simulation working.

292. Cutter working speed: Set the speed of cutter working.

293. Cutter acceleration: Set the acceleration of cutter.

294. Trimming frame direction: Set the trimming frame direction. Includes forward, backward, left and right.

295. Track formed up and down: Set the track of formed up and down.

296. Spindle corner speed: Set the rotation speed of spindle corner.

297. Minimum speed deviation angle: Set the angle minimum deviation sensor.

298. Early speed reduction: Set the needle step of early reduction.

299. Delayed speed step: Set the needle step of delayed reduction.

300. Cloth roller speed coefficient: Set the rate of cloth roller speed coefficient.

301. Action when begin: Set the action when start the machine.

302. Work head selection 1: Set the work head selection 1, includes allow and not allow.

303. Work head selection 2: Set the work head selection 2, includes allow and not allow.

304. Work head selection 3: Set the work head selection 3, includes allow and not allow.

305. Work head selection 4: Set the work head selection 4, includes allow and not allow.

306. Work head selection 5: Set the work head selection 5, includes allow and not allow.

307. Work head selection 6: Set the work head selection 6, includes allow and not allow.

308. Work head selection 7: Set the work head selection 7, includes allow and not allow.

309. Work head selection 8: Set the work head selection 8, includes allow and not allow.

310. Work head selection 9: Set the work head selection 9, includes allow and not allow.

311. Work head selection 10: Set the work head selection 10, includes allow and not allow.

312. Work head selection 11: Set the work head selection 11, includes allow and not allow.

313. Work head selection 12: Set the work head selection 12, includes allow and not allow.

314. Work head selection 13: Set the work head selection 13, includes allow and not allow.

315. Work head selection 14: Set the work head selection 14, includes allow and not allow.

316. Work head selection 15: Set the work head selection 15, includes allow and not allow.

317. Work head selection 16: Set the work head selection 16, includes allow and not allow.

318. Work head selection 17: Set the work head selection 17, includes allow and not allow.

319. Work head selection 18: Set the work head selection 18, includes allow and not allow.

320. Work head selection 19: Set the work head selection 19, includes allow and not

321. Work head selection 20: Set the work head selection 20, includes allow and not allow.

322. Work head selection 21: Set the work head selection 21, includes allow and not allow.

323. Work head selection 22: Set the work head selection 22, includes allow and not allow.

324. Work head selection 23: Set the work head selection 23, includes allow and not allow.

325. Work head selection 24: Set the work head selection 24, includes allow and not allow.

326. Work head selection 25: Set the work head selection 25, includes allow and not allow.

327. 。Work head selection 26: Set the work head selection 26, includes allow and not allow.

328. Work head selection 27: Set the work head selection 27, includes allow and not allow.

329. Work head selection 28: Set the work head selection 28, includes allow and not allow.

330. Work head selection 29: Set the work head selection 29, includes allow and not allow.

331. Work head selection 30: Set the work head selection 30, includes allow and not allow.

332. Work head selection 31: Set the work head selection 31, includes allow and not allow.

333. Secure input light curtain allows: Includes allow and not allow.

334. Safety input pressure allowed: Includes allow and not allow.

335. Safe input power-on signal allowed: Includes allow and not allow.

336. Safe door allowed: Includes allow and not allow.

337. Manual/Auto allowed: Choose to manual or auto mode.

338. Pneumatic frame off: Includes allow and not allow.

339. Pneumatic frame on: Includes allow and not allow.

340. Automatic air frame closing delay: Set the closing delay time of automatic air frame.

341. Stitch offset allows: Includes allow and not allow.
Loop work allowed: Includes allow and not allow.

342. Right Work head selection 1: Includes allow and not allow.

343. Right Work head selection 2: Includes allow and not allow.

344. Right Work head selection 3: Includes allow and not allow.

345. Right Work head selection 4: Includes allow and not allow.

346. Right Work head selection 5: Includes allow and not allow.

347. Right Work head selection 6: Includes allow and not allow.

348. Right Work head selection 7: Includes allow and not allow.

349. Right Work head selection 8: Includes allow and not allow.

350. Right Work head selection 9: Includes allow and not allow.

351. Right Work head selection 10: Includes allow and not allow.

352. Right Work head selection 11: Includes allow and not allow.

353. Right Work head selection 12: Includes allow and not allow.

354. Right Work head selection 13: Includes allow and not allow.

355. Right Work head selection 14: Includes allow and not allow.

356. Right Work head selection 15: Includes allow and not allow.

357. Right Work head selection 16: Includes allow and not allow.

358. Right Work head selection 17: Includes allow and not allow.

359. Right Work head selection 18: Includes allow and not allow.

360. 右工作头选择 19：按此功能键可以对工作头选择 19 进行设置，包括允许和不允许。
Right Work head selection 19: Includes allow and not allow.

361. 右工作头选择 20：按此功能键可以对工作头选择 20 进行设置，包括允许和不允许。
Right Work head selection 20: Includes allow and not allow.

362. 右工作头选择 21：按此功能键可以对工作头选择 21 进行设置，包括允许和不允许。
Right Work head selection 21: Includes allow and not allow.

363. 右工作头选择 22：按此功能键可以对工作头选择 22 进行设置，包括允许和不允许。
Right Work head selection 22: Includes allow and not allow.

364. 右工作头选择 23：按此功能键可以对工作头选择 23 进行设置，包括允许和不允许。
Right Work head selection 23: Includes allow and not allow.

365. 右工作头选择 24：按此功能键可以对工作头选择 24 进行设置，包括允许和不允许。

Right Work head selection 24: Includes allow and not allow.

366. Right Work head selection 25: Includes allow and not allow.

367. Right Work head selection 26: Includes allow and not allow.

368. Right Work head selection 27: Includes allow and not allow.

369. Right Work head selection 28: Includes allow and not allow.

370. Right Work head selection 29: Includes allow and not allow.

371. Right Work head selection 30: Includes allow and not allow.

372. Right Work head selection 31: Includes allow and not allow.

373. Pulling motor pull position: Set the pulling position of pulling motor.

374. Pull length: Set the length of pulling material.

375. Cutting length: Set the cutter length.

376. Shuttle Oiling sustained time: Set the sustained time of shuttle oiling.

377. Clamping force 1: Set the clamping force 1.

378. Clamping force 2: Set the clamping force 2.

379. Clamping force 3: Set the clamping force 3.

380. Clamping force 4: Set the clamping force 4.

381. Flat embroidery spindle working speed: Set the working speed of flat embroidery spindle.

382. Flat embroidery acceleration: Set the acceleration of flat embroidery.

383. Flat embroidery frame: Set the mode of flat embroidery frame, includes XY continuous moving frame and XY intermittent moving frame.

384. Flat embroidery acceleration mode: Includes no acceleration or deceleration and XY sine acceleration & deceleration.

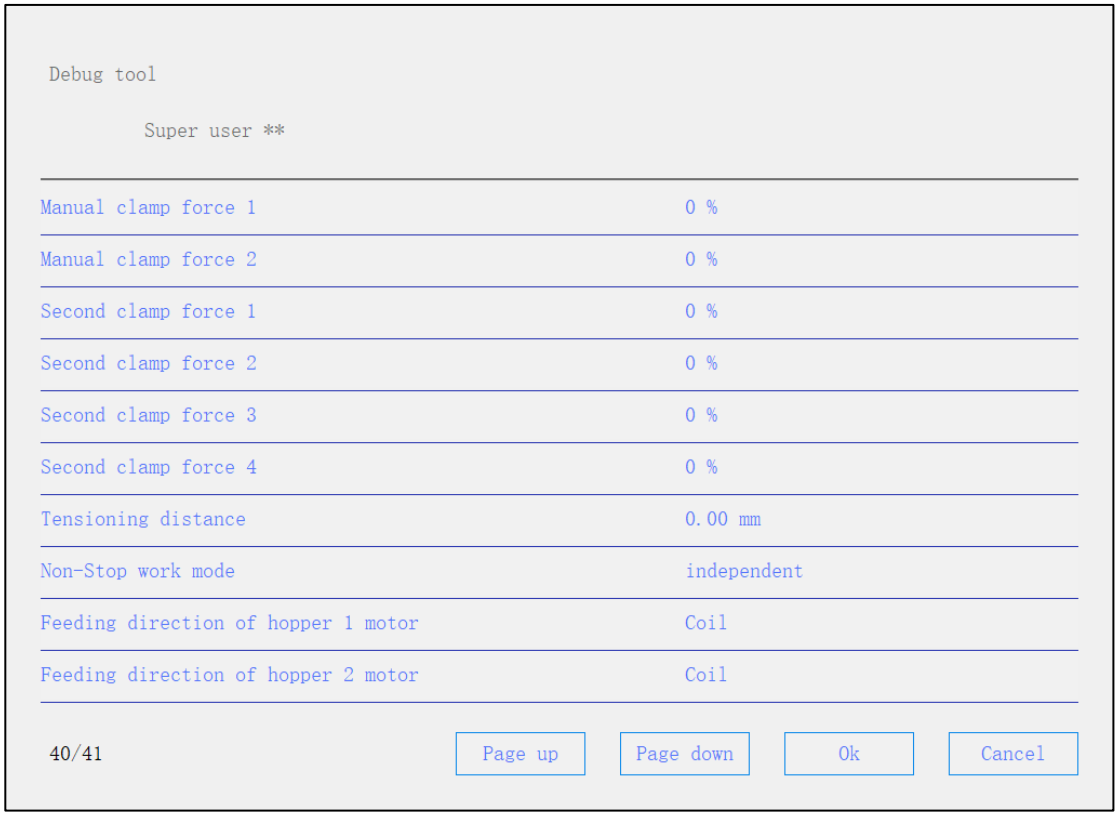
385. Flat embroidery frame starting angle: Set the starting angle of flat embroidery frame.

386. Flat embroidery frame continuous angle: Set the continuous angle of flat embroidery frame.

387. Spindle speed of flat embroidery jump needle: Set the max. spindle speed of flat embroidery jump needle.

388. Flat stitch jump stitches: Set the jump stitches of flat stitch.

389. Maximum speed of flat embroidery moving frame: Set the maximum speed of flat embroidery moving frame.



390. 手动夹线 1：按此功能键可以对手动夹线 1 进行设置。
Manual clamp force 1: Set the manual clamp force 1.

391. 手动夹线 2：按此功能键可以对手动夹线 2 进行设置。
Manual clamp force 2: Set the manual clamp force 2.

392. 第二加夹线力度 1：按此功能键可以对第二加夹线力度 1 进行设置。
Second clamp force 1: Set the second clamp force 1.

393. 第二加夹线力度 2：按此功能键可以对第二加夹线力度 2 进行设置。
Second clamp force 2: Set the second clamp force 2.

394. Second clamp force 3: Set the second clamp force 3.

395. Second clamp force 4: Set the second clamp force 4.

396. Tensioning distance: Set the distance of tensioning.

397. Non-stop work mode: Set the mode of non-stop working.

398. Feeding direction of hooper 1 motor: Set the feeding direction of hooper 1 motor.

399. Feeding direction of hooper 2 motor: Set the feeding direction of hooper 2 motor.

400. Fixture jig size: Set the size of fixture jig.

401. Cylinder action mode: Set the mode of cylinder action.

402. High of knife: Set the height of knife.

403. Low of knife: Set the low of knife.

404. Angle of knife: Set the angle of knife.