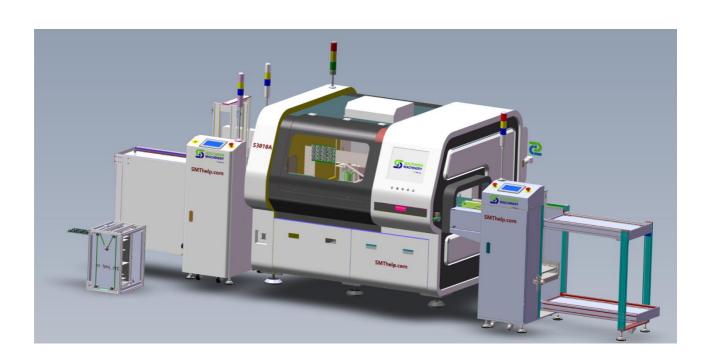


# Southern Machinery S3010A Radial Auto Insertion machine manual



#### machine overview:

S3000 series machines are high-speed, high-precision, and high-performance equipment. They are a new generation of vertical combined machines independently developed and produced by our company. They integrate our company's automatic loading and unloading machines and vertical Auto Insertion machines. The essence of the machine is integrated into one machine, which can arrange different types of braid components (carbon film resistors, diodes, cylindrical capacitors, etc.) in the chain clip according to the set program sequence for use by the Auto Insertion head. This equipment fixes the Auto Insertion head horizontally, and realizes the precise Auto Insertion in each area of the PCB by the movement of the X and Y mechanisms. The angle of the Auto Insertion is realized by the rotation of the turntable. This series of control software and operating software are also independently developed by our company, and all operations are controlled by a computer.

This series of vertical machines has the following advantages:

△ Full computer control, full Chinese version of the operating system, based on the Windows platform, easy to operate, fast, simple and easy to learn.

△ Using machine vision technology, online automatic programming, automatic correction, automatic identification of MARK points, which improves the degree of automation.

 $\triangle$  AC servo system is adopted to optimize the line, eliminate the instability caused by line faults, and achieve the goal of stable high speed and energy saving.

#### **Software operation**

#### 1. Safety check before operation.

Please note: When the machine is newly installed or idle for a long time, the following safety inspections must be done carefully before powering on and ventilating the machine and operating it:

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- 1) Check whether the power supply is at the specified rated voltage.
- 2) Check whether the main power supply is connected to the machine, whether the fuse is intact, and whether the branch circuit breaker is closed.
- 3) Whether the equipment is properly grounded.
- 4) Make sure that no irrelevant objects are left in the electric control box and on the movable parts of the machine.
- 5) Whether the conveyor belt and timing belt fall off during transportation.
- 6) Check whether the heavy-duty and high-speed running mechanisms such as the screw rod, slide rail, and Auto Insertion shaft are well connected.
- 7) Push and pull the X, Y, H, W, L, and J mechanisms by hand to see if they move smoothly.
- 8) Check whether the limit detection and limit mechanism are dislocated.
- 9) Check whether the emergency switch is depressed, and check whether the main air source and power switch are in the OFF state.
- 10) Check whether the wiring plugs and air pipes between the computer, the electric control box, and the main and auxiliary units are well plugged in.

## 2. The operation interface description is divided into the following three areas.



#### Figure 1

1) Production operation area: This area is for operating and controlling the operation and production of the machine (as shown above):

Button and selection explanation:

Start: Start the Auto Insertion program, and all parts of the machine cooperate to complete the Auto Insertion task.

Stop: The machine stops working and enters the standby state.

Return to zero: Return the worktable and turntable to the starting zero position. It is a necessary move before the first shift and Auto Insertion.

Alarm reset: When the machine encounters a Auto Insertion error during the production process, it will stop working and display the error message in the shutdown information. When the information is repaired, click the alarm reset and start production.

<u>Production operation mode</u>:

- 1. continuous: that is, the action is executed continuously, and the production quantity is completed.
- 2. Single step: complete a complete Auto Insertion cycle action.
- 3. Step-by-step: The Auto Insertion action is divided into several steps to execute, and only one step is completed each time it is started.

#### Run mode:

- 1. normal Auto Insertion: follow the normal Auto Insertion actions to complete the Auto Insertion.
- 2. Sequential dry run: Move the workbench idler in the order of the program, and the chain does not move.
- 3. Reverse order dry run: Move the workbench idler in reverse order according to the program, and the chain does not move.

#### Auto Insertion status detection:

- 1. Detection: In the process of Auto Insertion, real-time detection of component insertion, if it is found to be badly inserted, it will stop and alarm.
- 2. No detection: During the Auto Insertion process, the insertion of the component is not detected.

#### Unloading status detection:

- 1. Detection: During the feeding process of the material station, check whether there is material on the material station. If it is detected that there is no material for three consecutive times, the machine will stop and alarm.
- 2. No detection: During the feeding process of the material station, the situation on the material station is not checked.

#### MARK point

- 1. execution: When there is a MARK point correction command in the Auto Insertion sequence command, execute MARK point correction.
- 2. Do not execute: Do not execute the MARK point calibration command.

#### Chain running state

- 1. operation: according to the program sequence chain feeding Auto Insertion.
- 2. Not running: The chain does not feed the Auto Insertion according to the program sequence.

#### After the blanking

is completed, the Auto Insertion of the whole set of materials on the current chain is stopped.

Table moving speed The speed at which the table is moved manually.

#### running speed

Adjust the speed of each axis during the Auto Insertion process.

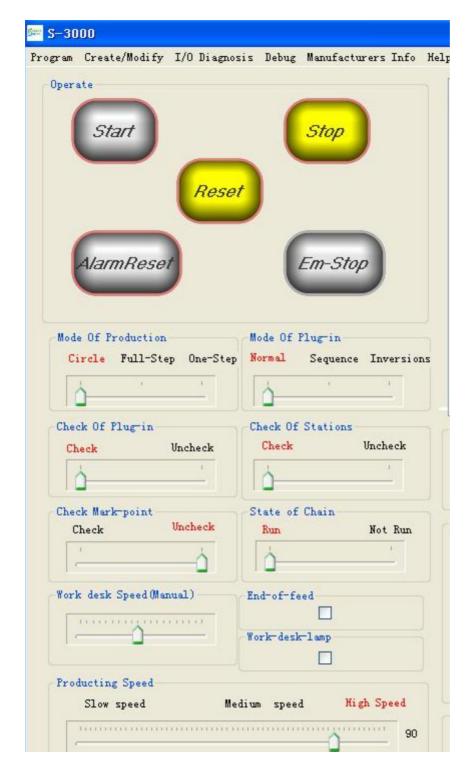


Figure 2

#### 2) The Auto Insertion sequence list

displays the company Log when the Auto Insertion data is not read, and displays the

Auto Insertion data when there is Auto Insertion data;

when it encounters MARK point correction during production, the CCD image is displayed;

3) operating information

#### This area of thearea Display current production information.



The Figure 3

#### shutdown information in

shows the reason for the shutdown during the production process. It may be an alarm message or the scheduled production task has been completed.

#### The program namename of the program

shows thethat is about to or has been running. A it would be "open" a different

procedurevaries.

#### The production set quantity

is the number of PCB boards to be Auto Insertion in production. It will automatically stop after reaching the number value.

#### PPM statistical

Insertion success rate calculation: (number of components successfully inserted/total number of Auto Insertions)\*100%.

#### The production volume

will automatically accumulate the production records every time a component is inserted into a board.

#### The real-time speed is

used to display the actual Auto Insertion speed of the machine. Unit: particles/hour.

#### Average speed

The insertion speed of the machine in a certain period of time.

#### Cutting foot induction status

"Left" and "Right" flashing in red indicates that the Auto Insertion is inserted normally, and gray indicates that there is no insertion or an incorrect insertion.

#### Modify the number of setsnumber

Modify the preset of Auto Insertion sets. When the preset value is reached, production will be automatically stopped.

#### 3. Toolbar description



Figure 5

 $\mathbb{Q} \downarrow \to ' \leftarrow \mathcal{U} \to \downarrow \cup ' \subset \cap \subset \star \partial \to \Psi \partial' \cap \subset \S ' \subset \cap \subset \star \partial, \to \S$   $\exists \to \downarrow \downarrow ' \cap ' \uparrow' \S \in \star \S ' \star \nabla \subset \to \star' \downarrow \star \circledast \star \downarrow \downarrow \supset \to \downarrow \cup \nabla \star \partial \cup \lambda$  a dialog box(as shown in the figure below), and then click the program name you need to "open" in it, Click "Open" again, and the machine will accept the "task" that will execute the program and overwrite the previous program.

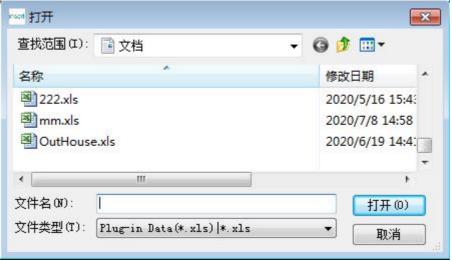


Figure 6

#### **Export Program**



 $\Omega \in X$  ' $\times Y \rightarrow \S$ .

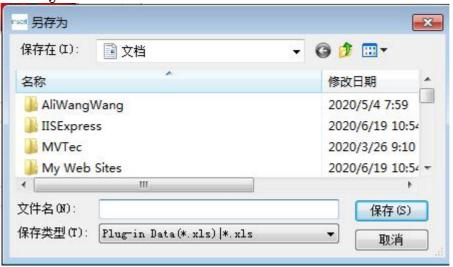


Figure 7

#### Modify program file

 $\text{S} \rightarrow \text{,} \leftarrow \quad \text{A} \rightarrow \text{for } \quad \text{L} \rightarrow \text{C} \rightarrow \text{C} \rightarrow \text{C} \quad \text{L} \rightarrow \text{C} \quad \text{L} \rightarrow \text{C} \rightarrow \text{C} \rightarrow \text{C} \rightarrow \text{C} \quad \text{L} \rightarrow \text{C} \rightarrow \text{C} \rightarrow \text{C} \quad \text{L} \rightarrow \text{C} \rightarrow \text{C} \rightarrow \text{C} \quad \text{L} \rightarrow \text{C} \rightarrow \text{$  $24 \rightarrow \downarrow \cup$ ,  $\rightarrow \S$   $3 \rightarrow \downarrow \downarrow$  'a'  $\uparrow$ '  $\bigstar$   $C \rightarrow \bigstar \downarrow \land \cap$  'all  $C \rightarrow \bullet$ '  $\aleph \cup \downarrow \cup \S \rightarrow \nabla \cap \S \in \cup \supset \rightarrow \downarrow \cup \nabla \bigstar \partial \cup (2 \rightarrow \cap \uparrow \cup 6). \quad \Omega \in \cup \nabla$  $`\downarrow \rightarrow `\leftarrow \S \in \cup \ \nabla \bigstar \partial \cup \ ^ \supset \ \S \in \cup \ `\check{\ } ^ \land \cap \check{\ } \bigstar \partial \ \ \mathbb{B} ^ \uparrow \ \ \nabla \cup \cup \subset \ \S ^ \land$  $\text{``} \land \text{'} \cup \nabla \text{''} \to \nabla \to \S, \quad \bigstar \nabla \subset \quad \S \in \cup \nabla \quad \text{`} \downarrow \to \text{`} \leftarrow \quad \text{``} \mathfrak{C}' \cup \nabla \text{''}, \quad \to \S \quad \exists \to \downarrow \downarrow$  $\land' \cup \nabla \rightarrow \nabla \S \in \cup \land \supset \supset \rightarrow' \cup \rightarrow \nabla . \mathscr{L} \downarrow \aleph \supset \land \ "\partial \bigstar \S.$ 

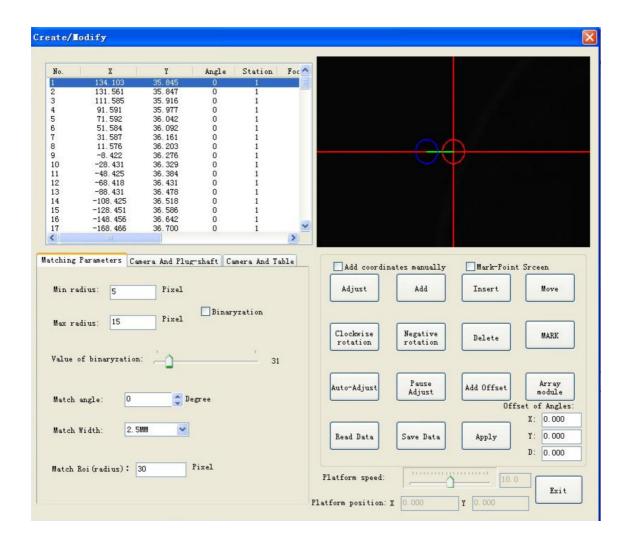
2) Make and modify the program



Figure 8

Make and modify the program Generate or modify the Auto Insertion data with the help of the camera.

 $\Diamond \uparrow \to , \leftarrow \quad * \bigstar \leftarrow \cap \quad \bigstar \triangle \subset \quad \mathcal{G} \lor \subset \to \supset \mathbb{B} \quad , \land \lor \cup \widecheck{} \bigstar \mathcal{G} \quad \to \quad * \maltese \leftarrow \cap$ C→★↓^∩ '^£ ∃→↓↓ '^' †'



. Figure 9 I Data display area: display the generated Auto Insertions Data

序号	X轴	Y轴	角度	站位	脚位	元件名称	元
1	0.000	10.000	60	1	r1	aa	极性
2	11.111	10.000	0	2	r2	ьь	无板
3	22.222	10.000	0	3	r3	cc	E
4	33,333	10.000	0	11	r4	dd	保
5	44.444	10.000	0	5	r5	ee	保 三
6	55.556	10.000	0	6	r6	ff	1
7	66,667	10.000	0	7	r7	99	1
8	77.778	10.000	0	8	r8	hh	<u> </u>
9	88.889	10.000	0	9	r9	ii	E
10	100.000	10.000	0	10	r10	mm	E
11	-45.000	96.500	0	1			
4		111					+

Figure 10

II CCD image area: displays the position where the camera captures the image that has been matched by the Auto Insertion, and helps to generate



Auto Insertion data. After modifying the matching difference, the image will react in real time.

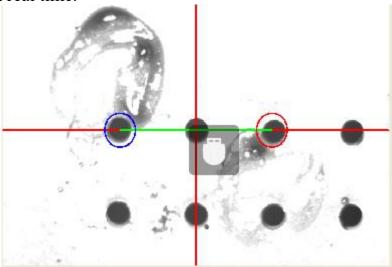


Figure 11

#### III Matching parameter setting areain

There are three pagesthis area: matching parameter setting, camera Auto Insertion axis position calibration, and camera TABLE platform calibration.

1. Matching parameter setting



Fig. 12 The

#### minimum radius

is the minimum target size radius found in the matching ROI area.

#### The maximum radius is the radius

of the maximum target size to be found in the matching ROI area. The binarized image

divides the image according to the threshold into a black and white two-color grayscale image.

#### The image binarization threshold

adjusts the size of the threshold of the segmentation map.

#### The width of the matching parts is

based on the distance between the two pins of the component. The distance range of the machine is 2.5mm, 5.0mm, 3.5mm.

#### The matching angle isangle

based on the between the two pin holes of the component and the X axis, and the distance range of the machine is -90-90.

### The matching frame adjustment (circle/radius) adjusts the range of the ROI area.

#### 2. Camera Auto Insertion axis position calibration



Figure 13

#### Calibrate the camera position

Move a Auto Insertion position to the ROI area of the camera image, click to calibrate the camera position, the program matches and records the current platform position.

#### Calibrate the Auto Insertion axis position

Move the Auto Insertion position used to calibrate the camera position to the Auto Insertion axis, fine-tune the XY axis, and manually move H so that H can be inserted at this position. Click the calibration Auto Insertion axis position program to record the current platform position.

#### After the mark is completed,

the<u>camera position</u>and the<u>axis position of the calibration Auto Insertion are calibrated</u>. Click the calibration complete, the program will calculate the

relative position of the Auto Insertion position under the camera image and the Auto Insertion axis under the Auto Insertion axis, and fill in the two edit boxes on the right.

#### The test

first moves the Auto Insertion position to the ROI area of the camera image. Clicking the test program will first correct the specific position in the ROI area, and then automatically move to the Auto Insertion axis. At this time, you can check whether the data is accurate.

#### 3. Calibration of the camera TABLE platform

匹配参数设置	相机插件轴位置标题	定 相机TABLE平台标定
标定	相机平台	测试相机平台
X轴放力	大比率(pix/mm):	33, 698
X轴偏和	多量 (pix/mm):	0.540
Y轴偏和	多量(pix/mm):	0, 499
Y轴放	大比率(pix/mm):	33, 631

Figure 14

#### Calibration of the camera platform

Select an area with only one matching target on the matching board, as shown in

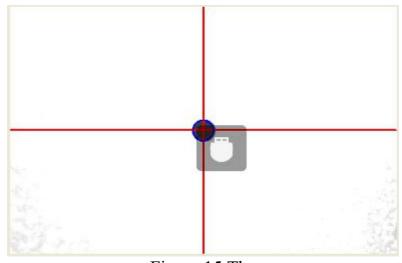


Figure 15 The

program will calculate the number of pulses moved by the XY axis and the number of pixels moved by the XY axis on the image to determine the image The ratio of distance to actual distance.

#### The test camera platform

moves the matching target to any position in the image, and if it can automatically return to the center of the camera, it proves that the calibration is successful.

IV Matching operation area:



#### Manually coordinates of

move thethe Auto Insertion to the ROI area of the image, and directly record the XY coordinates. It is used to obtain the Auto Insertion position PCB board imaging is extremely irregular and cannot be matched.

#### correction when

theReplace the Auto Insertion data obtained in the current image ROI area with the data of the selected row.

#### Add

the Auto Insertion data obtained in the current image ROI area to the Auto Insertion data listthe last

#### <u>Insertmissing piece ofintoinsert</u>

the current imagethe ROI area of the current image to the Auto Insertion data to the position of the currently selected row.

#### Shift

if the current platform position does not correspond to the focus row, move to the corresponding position;

if the current platform position is in the focus row The corresponding

position of, then moves to the corresponding position of the next line of the focus line.

#### The turntable

rotates 90 degrees clockwise and is recorded in the Auto Insertion data list.

#### The turntable rotates

counterclockwise by 90 degrees and is recorded in the Auto Insertion data list.

#### Remove and

delete the rows rotated in the Auto Insertion data list (multiple rows can be continuous).

#### MARK point

is added to the program to add MARK point position correction,

#### browse correction,

browse and correct the Auto Insertion data in the Auto Insertion data list from the focus line.

#### Pause browsing

temporarily stops browsing and correction of Auto Insertion data.

#### Offset compensation

selects a row, and then moves to the corresponding position of the focus row because of clicking Shift, and clicking offset compensation, you can fine-tune the multiple rows of data before the turntable rotation command or stop command after this row.

#### array module

After editing an area of the, you can use this command to array several similar modules to



match a certain position in the first module and the same position in the last module, and then enter the number of modules in the X direction and the modules in the Y direction Count, you can generate Auto Insertion data that combines several modules.

#### Reading the file is the

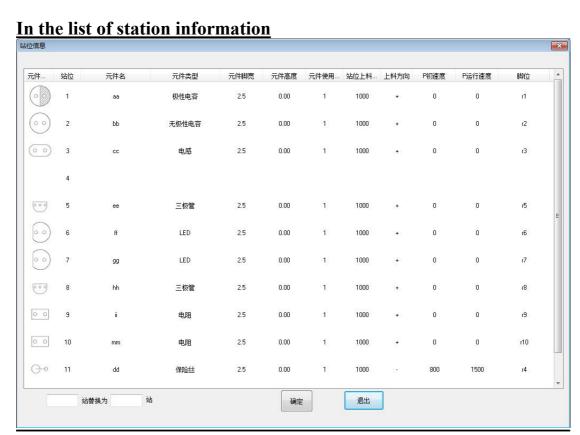
same as the import program in the menu bar, reading the Auto Insertion data from the file to the Auto Insertion data list.

#### The save file is the

same as the export program in the menu bar. The Auto Insertion data of the Auto Insertion data list is saved to a disk file. If there is no "stop" or "continue" command at the end of the list, the "stop" command will be added automatically.

#### The application

saves the matching parameters to a disk file so that it will be automatically loaded at the next startup.



, you can select the component type according to the pin name on the PCB board that is set when the program is made, and set the corresponding component name, and determine the feeding direction. When the component type and loading direction are determined, the 0 degree component schematic image of the Auto Insertion will be displayed in the first column of the list. Please check the schematic image of the changed component on the PCB to ensure that the loading is correct.

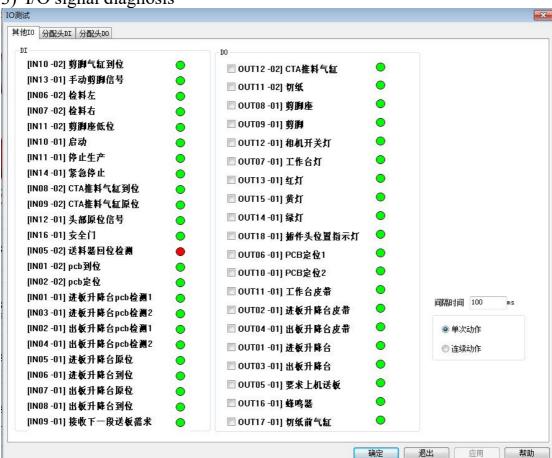
In addition, you can also set the number of rolls of material when loading, so that when the remaining material at the station is less than 80 pieces, the



equipment will give a reminder that the material at a station is about to run out, please pay attention to loading. You can also set the operating speed of the P-axis separately, so that the P-axis speed can be separated when the high and low materials are hit, so as to facilitate better Auto Insertion. The height of the component can be set so that the P-axis decides whether to lower a part in advance. When the high material is raised, if the component is too high that the mechanism does not allow the chain to feed in advance, the height can be set to greater than 42 to complete a complete insertion. After the action process, the chain will send a piece of material.

feeding station that can replace the component

3) I/O signal diagnosis



#### DI of the

Checkleft and right the insertion status of the component on the. During Auto Insertion, if the component is not accurately inserted into the hole or the foot cutter does not touch the pin of the component, the machine will stop or give an alarm. The normal state is red, otherwise it is green. This signal is taken from the foot trimmer, and its principle is that a loop is formed between the foot trimmer, the foot trimmer and the ground under normal conditions.

Station detection (upper layer), station detection (lower layer): When the material on the material station is about to be used up, a signal is detected.

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Chain detection detects the presence or absence of material on the chain.

The low position of the cutting foot detects whether the cutting foot is in the low position.

**Turntable in position When** the magnet on the turntable approaches the "in-position" magnetic sensor of the turntable detection board, the signal output by the turntable detection board. Decide whether the turntable will stop or continue to rotate.

When the zero position induction magnet on the turntable is close to the "zero position" magnetic sensor of the turntable detection board, the signal output by the turntable detection board.

**Head home position signal**: Click the "H axis" switch on the panel, the H axis will be powered off, after clicking again, the H axis will be powered on and return to the original position.

When thesupplementary jumper current Auto Insertion position jumper of theis not inserted successfully, the supplementary jumper will be inserted into the jumper again.

**Start** When the start switch on the shell is pressed, the state changes from high to low, and vice versa.

**Stop** When the stop switch on the housing is pressed, the state changes from high to low, and vice versa.

#### DO

camera light switch the light source of the camera.

The green, yellow, and red lights are warning lights on the housing.

shear pin Driveshears shear pin cylinder for foot operation signal.

The turntable lock is a signal that drives the air cylinder on the turntable lock mechanism.

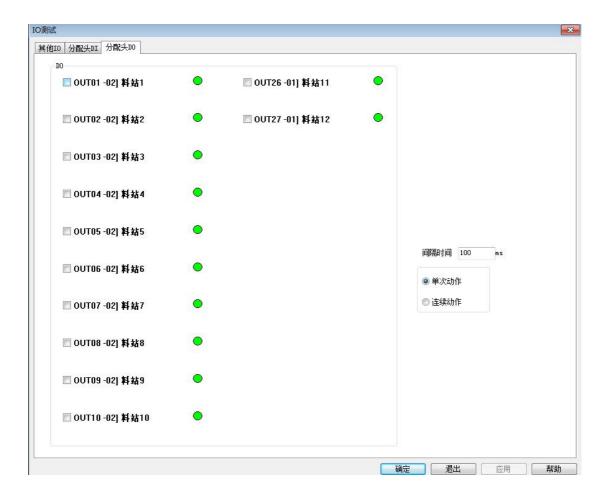
turntable pressure wheel The signal that the drives the air cylinder on the turntable pressure wheel mechanism.

Clockwise The relay signal that controls the clockwise rotation of the turntable.

counterclockwise Relay control signal turretrotating counterclockwise.

The base drives the up and down signals of the base cylinder.





The DO signal on the distribution head can be single-acted and linked to test the distribution head

#### 4.1) Motor debugging





set the movement amount and speed of each axis, and then move each axis according to the direction of the arrow on the button, and test whether the time movement direction of each axis is the same The directions indicated on the arrows are the same; test whether the positive and negative limits are valid and reversed.

Test whether each axis can return to the origin and whether the origin position is correct.

The positive and negative limits are the abbreviations for the photoelectric switch signals at the maximum limit positions in the positive and negative directions of each axis.

**origin** "Zero point" detection signal forsetting.

**Stop position X**: The actual position of the X axis after the worktable is "zeroed", which must lead the zero position.

**Stop position Y**: After the worktable is "zeroed", the actual position of the Y-axis must be ahead of the zero position.

Turntable position X: The actual position of the X axis before the turntable starts to rotate.

Turntable position Y: The actual position of the Y-axis before the turntable starts to rotate.

**Auto Insertion axis height 1**: The Auto Insertion axis with components is inserted down, and the position value of the component pin on the surface of the PCB is a bit higher than the position of the Auto Insertion axis height 2. It is convenient to check whether the Auto Insertion holes and pins are aligned.

**Auto Insertion shaft height 2**: The position where the Auto Insertion shaft

is completely inserted into the PCB surface.

The motor running speed is restored to the factory value: the speed of each axis is restored to the factory guide value when leaving the factory. Compensation value setting:

4) manufacturer information After clicking manufacturer information, the FactoryInfo.pdf file in the application directory will be opened.

If this file does not exist, a prompt message will pop up.

#### Help

Click Help, it opens IST-3003-HELP.pdf file in the application directory. If this file does not exist, a prompt message will pop up.

#### After the dongle

clicks on help, a dialog box will pop up.





If the dongle of the current machine is incorrect, please read the machine code and send this machine code to the manufacturer, and then ask the manufacturer for a new dongle.

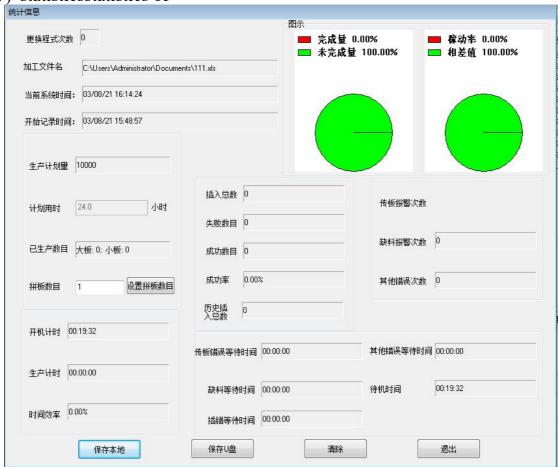
If the installment payment method is used, the effective use time of installments has come, and the dongle is locked, please send the machine number and the number of installments to be paid to the manufacturer, and ask for the unlock password to unlock.

6) The background management





7) statistics statistics of



show that the production data and efficiency have been

8) exited.

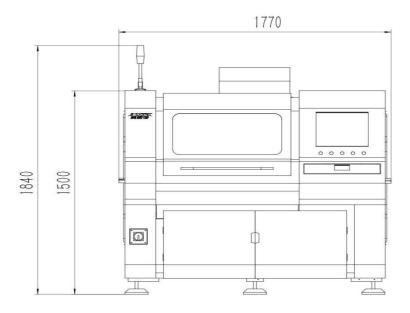
Click exit to exit the program.

### Online 3K vertical Auto

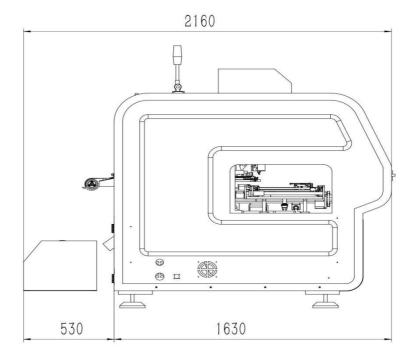


### Insertion machine mechanism description

3K vertical machine front view

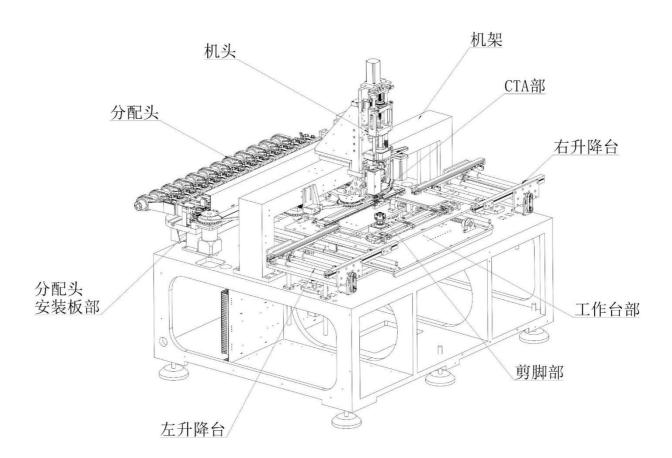


vertical machine side view

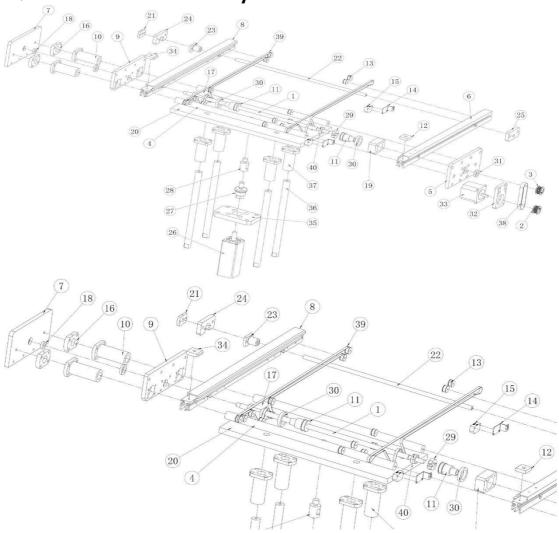




# 12 standing Auto Insertion machine assembly

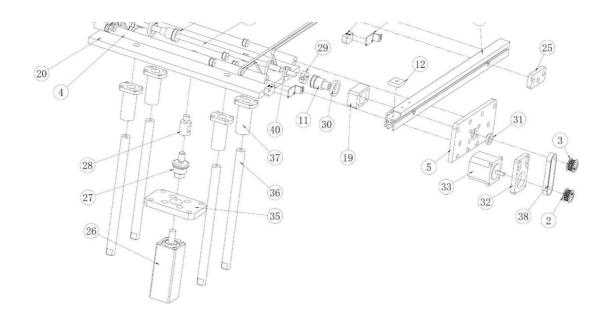


#### left lift table assembly 1、





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#### left lift table accomply material list

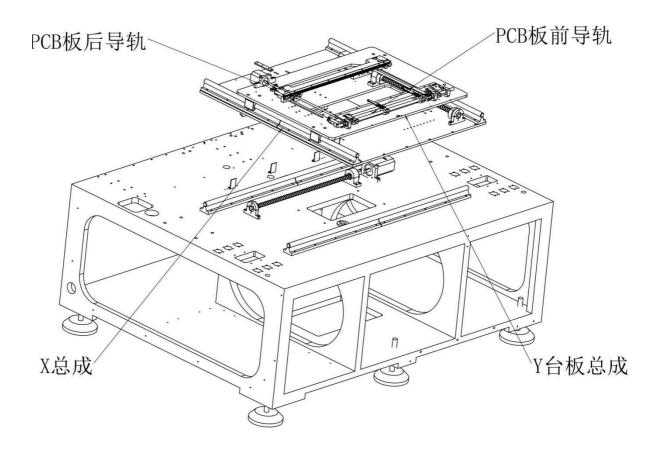
left lift tabl	e assembly material list	•		
item number	part number	description	quanti ty	note
1	drive shaft.	3K-12-SJTZB-01	1	
2	IST right synchro wheel-01.	3K-12-SJTZB-02	1	
3	Synchronous wheels.	3K-12-SJTZB-03	1	
4	20optical axis.	3K-12-SJTZB-04	2	
5	left front fixing plate change floweraluminum.	3K-12-SJTZB-05		
6	Left front aluminum.	modification3K-12- SJTZB-06	1	
7 The	left rear aluminum fixed plate is modified.	3K-12-SJTZB-07	1	
8	Left rear aluminum.	modification3K-12- SJTZB-08	1	
9	left width regulatingplate.	3K-12-SJTZB-09		
10	flangeLM20UU.	3K-12-SJTZB-10	2	
11	Rear rotating wheelA.	3K-12-SJTZB-11	2	
IST-	12Racesteel	-01. 3K-12-SJTZB-		
13	small pulley.	3K-12-SJTZB-13	15	
IST-	14induction nest	01. 3K-12-SJTZB-14		
15	sensor 02.	3K-12-SJTZB-15	2	
16	IST-flange spacer-01.	3K-12-SJTZB-16	2	

17	pulley block.	3K-12-SJTZB-17	1	
18	bearing61 800.	3K-12-SJTZB-18	2	
19	pulley blockB.	3K-12-SJTZB-19	1	
20	Left rail support plate.	3K-12-SJTZB-20	1	
21	Optical axis limit block.	3K-12-SJTZB-21	1	
22	diameter10optical axis.	3K-12-SJTZB-22	1	
23	LHFCD10 (LMH6-13)	3K-12-SJTZB-23	1	
24	shaft sleeve fixing plate.	3K-12-SJTZB-24	1	
25	shaft sleeve fixing plateB.	3K-12-SJTZB-25	1	
26	cylinderSDAS40-75-B.	3K-12-SJTZB-26	1	
27	JS40-14-150(0).	3K-12-SJTZB-27	1	
28	cylinder extension rod.	3K-12-SJTZB-28	1	
29	diameter12ring	holding3K-12-SJTZB-29	1	
30	61805Bearing25 37 7	3K-12-SJTZB-30	2	
31	bearing61803 17 26 5	3K-12-SJTZB-31	2	
32	Motor mount	3K-12-SJTZB-32	1	
33	Honing source motor57BYG250B	3K-12-SJTZB-33	1	
IST-	<b>34</b> Racesteel	-01. 3K-12-SJTZB-		
35	base cylinder mounting plate	3K-12-SJTZB-35	1	
36	20Lifting optical axis	3K-12-SJTZB-36	4	
37	flangeLM20UUY.	3K-12-SJTZB-37	4	
38	belt1-3	3K-12-SJTZB-38	1	
39	belt2left lift table4axis	3K-12-SJTZB-39	2	
40	M16nut	3K-12-SJTZB-40	2	

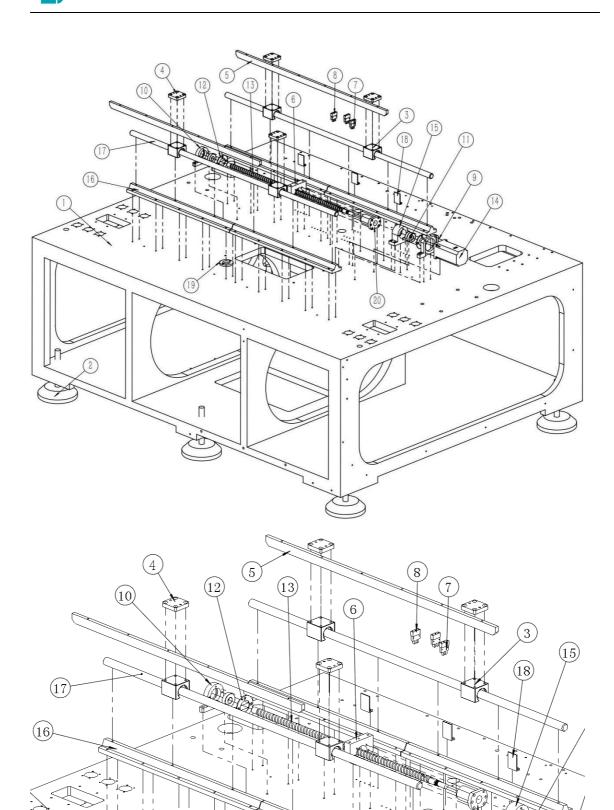
### 2 Assembly table





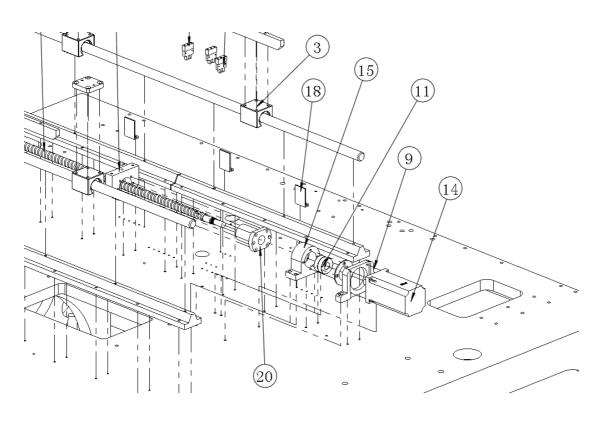


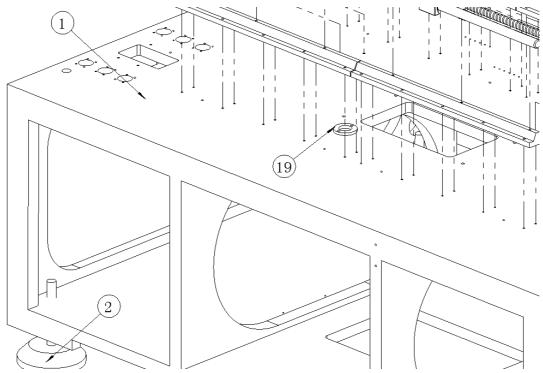
#### 1, Xassembly





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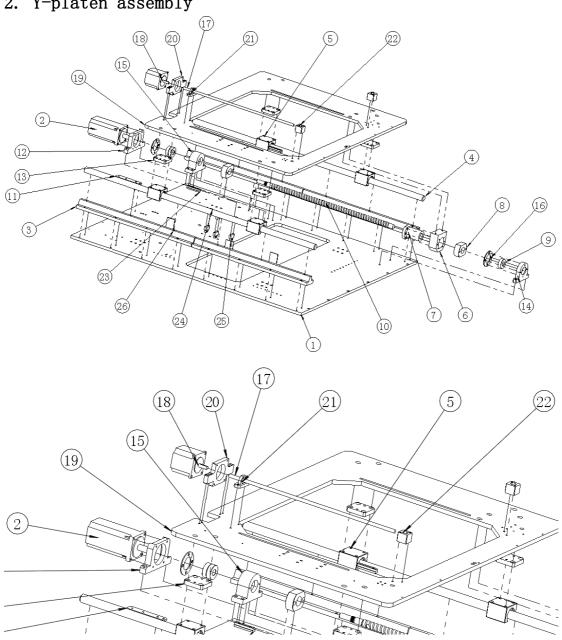




#### X cartridgeBOM

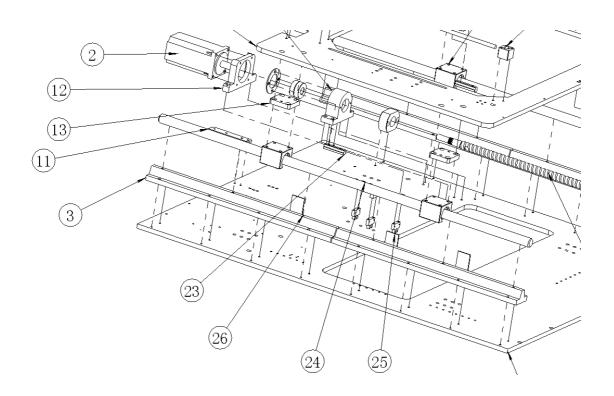
x cart	riagebum			
Item Number	Part Number	Description	the numb er	Remarks
1	base-lupdated	1028 3K-12-GZT-XTB		cast iron
2	feet20.	3K-12-GZT -XTB-02	6	standard parts
3	platform slider.	3K-12-GZT-XTB-03	4	
4	3KSslider block	3K-12-GZT-XTB-04	4	
5	Yplaten reinforcement plate	3K-12-GZT- XTB-05	2	
6	XScrew nut set.	3K-12-GZT-XTB-06	1	
7	SX670	3K-12-GZT-XTB-07	3	
8	Sensor holder	3K-12-GZT-XTB-08	3	
9	Xmotor fixing base platform	3K-12-GZT-XTB-		
	screw bearing housing	1. 3K-12-GZT-XTB		
	bearing	6202. 3K-12-GZT-XTB		
	bearing cap	3K -12-GZT-XTB-12	2	
13	3K\$Xscrew	3K-12-GZT-XTB-13	1	
14	400Wmotor.	3K-12-GZT-XTB-14	1	
15	IST-Xbearing holder.	3K-12-GZT -XTB-15	1	
16	X-rayaxis bracket	3K-12-GZT-XTB-16	2	
17	20Hard optical axisl	3K-12-GZT-XTB-17	2	
18	XYlimit sensor	3K-12-GZT-XTB- 18	3	
19	Black Teflon	3K-12-GZT-XTB-19	1	
20	sfs2010-3.8nut.	3K-12-GZT-XTB-20	1	
	· · · · · · · · · · · · · · · · · · ·			·

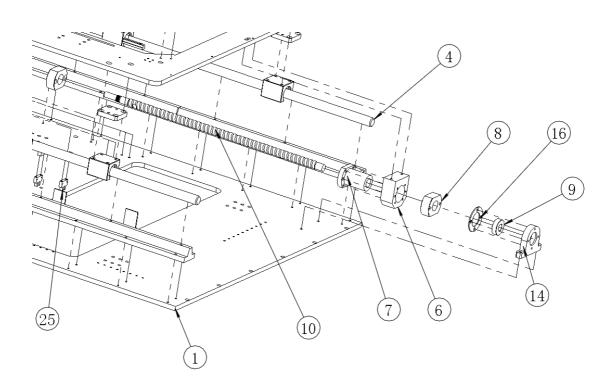
#### 2. Y-platen assembly





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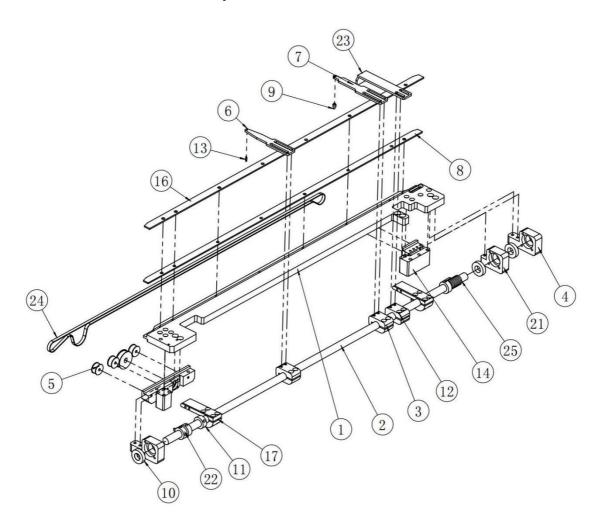




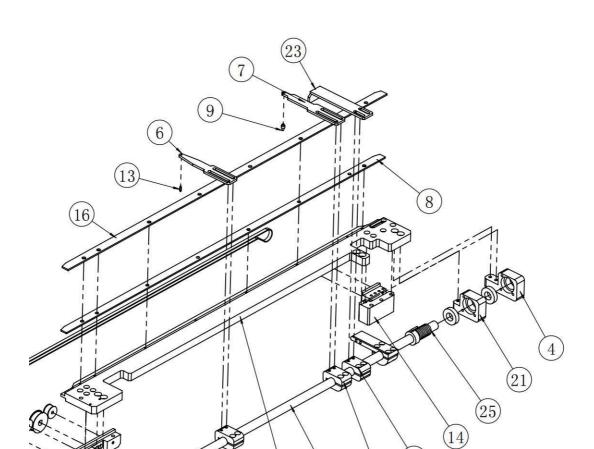
#### Y-platen assembly material list

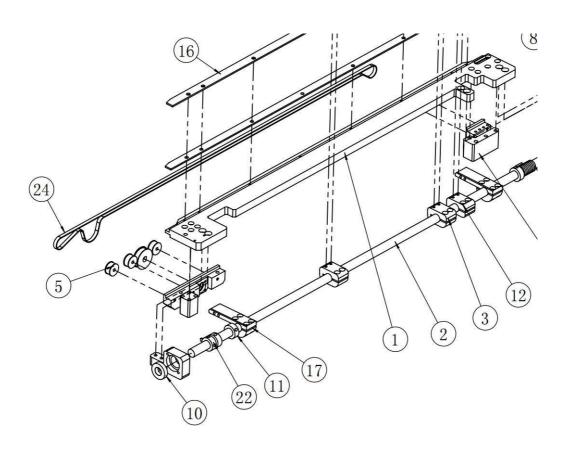
Piac	CII assembly materia	ui iibt		
item number	Part Number	Description	Quan tity	Quantity
1	3KSYworktable	3K-12-GZT-YTB-01	1	
2	400Wmotor.	3K-12-GZT-YTB-02	1	
3	rail <b>2</b> base	3K-12-GZT-YTB-03	2	
4	rail2	3K-12-GZT-YTB-04	2	
5	Platform slider.	3K-12-GZT-YTB-05	4	
6	Yscrew nut sleeve	3K-12-GZT-YTB-06	1	
7	sfs2010-3.8nut.	3K- 12-GZT-YTB-07	1	
8	Ybuffer glue.	3K-12-GZT-YTB-08	2	
9	bearing6202.	3K-12-GZT-YTB-09	3	
10	Yplatform screw	3K-12-GZT-YTB- 10	1	
11	Drag chain mounting plate	3K-12-GZT-YTB-11	1	
12	Xplatform motor fixing seat	3K-12-GZT-YTB-12	1	
13	3KSslider block	3K-12-GZT-YTB-13	4	
1 4	Xscrew bearing seatl.	3K-12-GZT-YTB-14	1	
15	IST-Xbearing holder.	3K-12-GZT-YTB-15	1	
16	bearing cap	3K-12-GZT-YTB-16	2	
17	Transmission optical axis8	3K-12-GZT-YTB-17	1	
18	honing motor57BYG250B	3K-12-GZT-YTB-18	1	
19	3KStable plate	3K-12-GZT-YTB-19	1	
20	motor fixing plate	3K- 12-GZT-YTB-20	1	
21	Belt bearing mounting bracket	3K-12-GZT-YTB-21	1	
22	SDA12-5	3K-12-GZT-YTB-22	2	
23	Width adjustment nut bar	3K-12-GZT-YTB- 23	2	
24	Sensor holder	3K-12-GZT-YTB-24	3	
25	SX670	3K-12-GZT-YTB-25	3	
26	XYlimit sensor	3K-12-GZT-YTB-26	3	

#### 3. Front rail assembly









### Front rail material list

item number	part number	description	quanti ty	remarks
1	front guide plateA	3K-12-GZT-QDG-01	1	
•	212Axis	3K-12-GZT-QDG	· ·	
3	clamp block4	3K-12-GZT-QDG-03	2	
4	clamp blockB:	3K-12-GZT-QDG-04	2	
5	small pulley	3K-12-GZT-QDG		
6	positioning plateaperture	09 3K-12-GZT-QDG		
7	longer section positioning piece	110 3K-12-GZT-QDG		
	Stainless steel8	09 3K-12-GZT-QDG		
9	PositioningPIN Universal	3K-12-GZT-QDG-09	1	
10	bearing <b>690109</b>	3K-12-GZT-QDG-10	3	
11	ring:Holding09	3K-12-GZT-QDG-11	3	
12	IST-Clamping blockAA09	3K-12-GZT-QDG-12	1	
13	Turntable positioningPIN09	3K-12-GZT-QDG-13	1	
14	Turntable track block.	3K-12-GZT-QDG-14	1	
15	Turntable track blockB.	3K-12-GZT-QDG-15	1	
16	lower stainless steel plateA.	3K-12-GZT-QDG-16	1	
17	clamp block:Cocked09	3K-12-GZT-QDG-17	2	
18	Front belt pressure wheel mounting plateB.O 9	3K-12-GZT-QDG-18	1	
19	Small pulley	3K-12-GZT-QDG		
20	Belt compression mounting plateB.09	3K-12-GZT-QDG-20	1	
21	clamp block2	3K-12-GZT-QDG-21	1	
22	Positioning shaft holding ring(1)	3K-12-GZT-QDG-22	1	
23	baffle block	3K-12-GZT-QDG-23	1	
24	Front rail belt-1	3K-12-GZT-QDG-24	1	

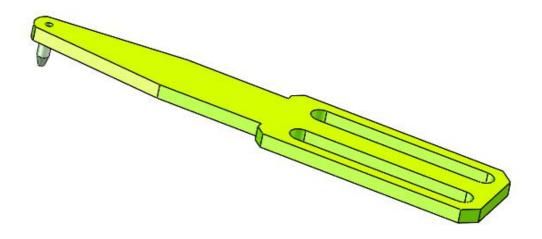


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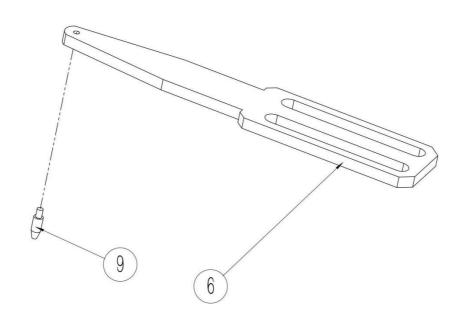
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25 to	rsion spring	3K-12-GZT-QDG-25	1		
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PCB board positioning PIN-universal



positioning PIN-universal exploded drawing

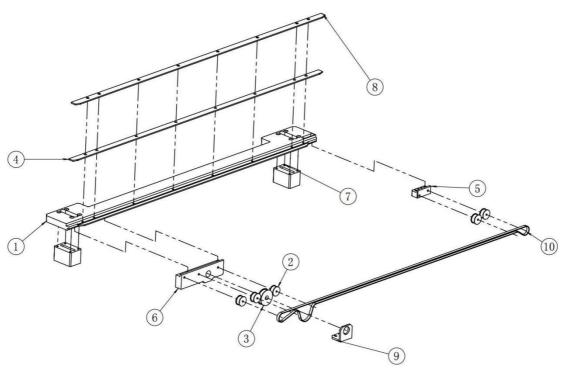


### positioning PIN-universal bill of materials

Item number	Part number	Description	Quanti ty	Remarks
6	Positioning plate hole	3K-12-GZT-QDG-06	1	
1 4	Turntable positioningPIN	3K-12-GZT-QDG-07	1	2. 0-5. 5

Remarks: This model has an integrated type (positioning plate and positioning PIN integrated)

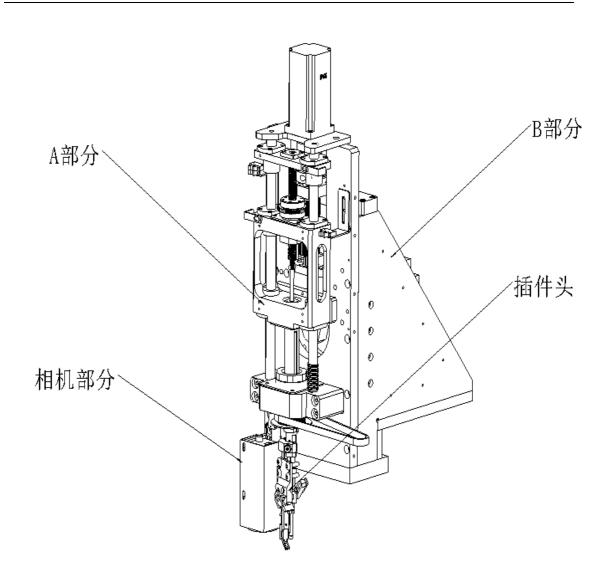
### 4. Rear rail assembly



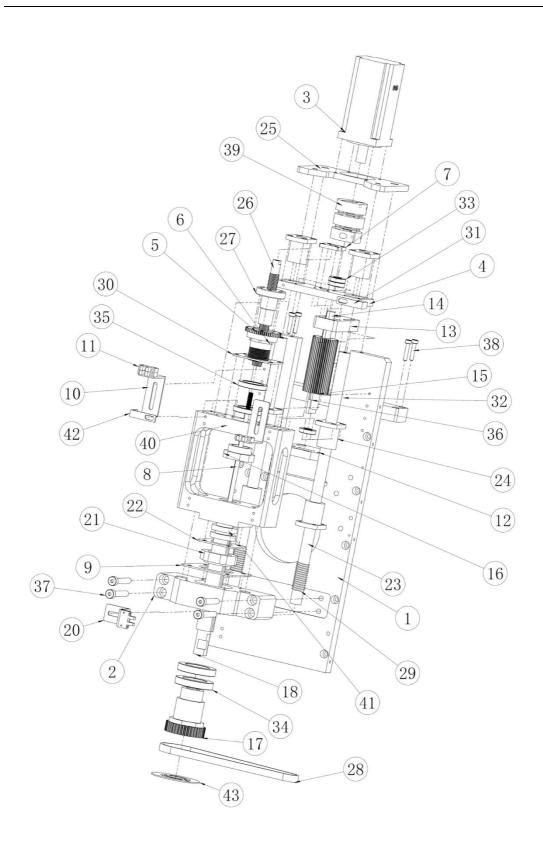
Rear rail material list

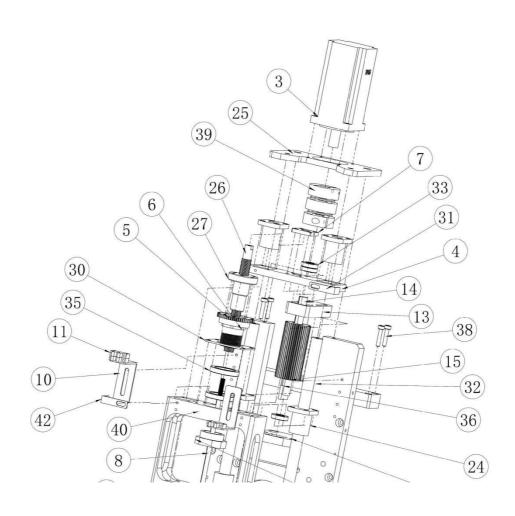
Real lati material list				
item	part number	Description	Quanti	Remarks
number			ty	
1	Rear guide plateA.09	3K-12-GZT-HDG-01	1	
2	small pulley.09	3K-12-GZT-HDG-02	5	
3	small pulley	3K-12-GZT-HDG		
4	lower stainless steel plates.09	3K-12-GZT-HDG-04	1	
5	Belt compression mounting plateB.09	3K-12-GZT-HDG-05	1	
6	Belt pressure roller mounting plateB.09	3K-12-GZT-HDG-06	1	
7	slide locking block	B.09 3K-12-GZT-HDG		
8	lower stainless steel plateA.	3K-12-GZT-HDG-08	1	
9	Active wheel limit piece	3K-12-GZT-HDG-09	1	
10	Rear rail belt-1	3K-12-GZT-HDG-10	1	

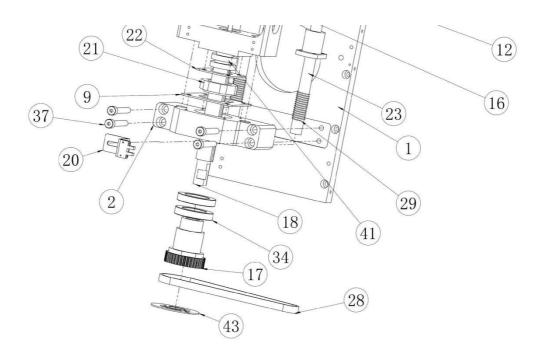
Three, the head assembly



# 1. The head becomes part A







### **Head Assembly Part A Material List**

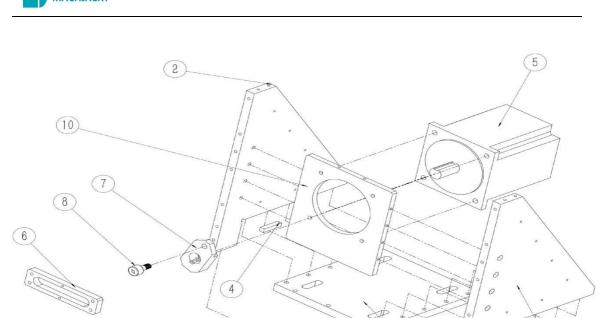
TICUU /	SSETTIBLY Part A Materia			
Item	Part Number	Description	Quan	Remarks
Number		01/ 10 TD + DE 01	tity	
1	Head mounting body	3K-12-TB-ABF-01	1	
2	Bearing seat	3K-12-TB-ABF-02	1	
3	400Wmotor	3K-12 -TB-ABF-03	1	
4	Pushing screw fixing plate	3K-12-TB-ABF-04	1	
5	Auto Insertion head transmission gear2	3K-12-TB-ABF-05	1	
6	Pushing screw seat	3K-12- TB-ABF-06	1	
7	Pushing screw fixing block	3K-12-TB-ABF-07	1	
8	Pressing rod	3K-12-TB-ABF-08	1	
9	Auto Insertion head bearing coverl	3K-12-TB- ABF-09	1	
10	nip axis induced holder	3K-12-TB-ABF-		
	nip gear bearing seat	3K-12-TB-ABF-		
	pressure Material wheel mounting seat	3K-12-TB-ABF-13	1	
14	Gear shaft	3K-12-TB-ABF-14	1	
15	Auto Insertion head drive gearl	3K-12-TB-ABF-15	1	
16	Pushing screw seat cover	3K-12-TB-ABF-16	1	
17	Rotating pulley	3K-12-TB-ABF-17	1	
18	Auto Insertion shaft	3K-12-TB-ABF-18	1	
19	deep groove ball bearings gb	3K-12-TB-ABF- 19	1	
20	Sensing sheet	3K-12-TB-ABF-20	1	
21	M35X1.5	3K-12-TB-ABF-21	1	
22	Auto Insertion head bearing cover2	3K-12-TB-ABF-22	1	
23	160ptical axis	3K-12-TB-ABF-23	2	
24	LMH16	3K-12-TB-ABF-24	6	
25	16-axis positioning plate	3K-12-TB-ABF-25	1	



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26	14-tooth screw	3K-12-TB-ABF- 26	1	
27	14tooth screw seat	3K-12-TB-ABF-27	1	
28	belt180XL-10	3K-12-TB-ABF-28	1	
29	spring (18-1.1-6-100)	3K-12-TB- ABF-29	2	
30	Auto Insertion head bearing cover4	3K-12-TB-ABF-30	1	
31	Pressing shaft induction plate	3K-12-TB-ABF-31	1	
32	Pressing bearing fixing plate	3K-12-TB-ABF -32	1	
33	bearing61901	3K-12-TB-ABF-33	3	
34	61907	3K-12-TB-ABF-34	2	
35	bearing61806	3K-12-TB-ABF-35	2	
36	keys (5-5-30)	3K-12 -TB-ABF-36	1	
37	M8X55screw	3K-12-TB-ABF-37	4	
38	M5X25screw	3K-12-TB-ABF-38	4	
39	Platform motor coupling(14-12).	3K-12-TB -ABF-39	1	
40	Slider combination	3K-12-TB-ABF-40	1	
41	61805	3K-12-TB-ABF-41	3	
42	Pressing axis induction sheet left	3K-12-TB-ABF-42	1	
43	head Part steering induction plate	3K-12-TB-ABF-43	1	

# 2. Head assembly Part B



9)

(11)

### **Head assembly-Part B material list**

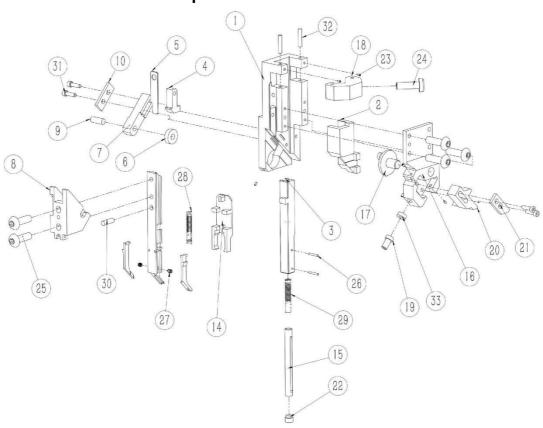
3

Item number	Part number	Description	Quant ity	Remarks
1	Head side plate	3K-12-TB- BBF-01	1	
2	Mirror head side plate	3K-12-TB-BBF-02	1	
3	CTAcombination connecting plate	3K-12-TB-BBF-03	1	
4	keys (8-8-40)	3K-12-TB -BBF-04	1	
5	Taiwan up to1500Wmotor	3K-12-TB-BBF-05	1	
6	track groove	3K-12-TB-BBF-06	1	
7	Swing arm	3K-12-TB-BBF-07	1	
8	CR12V.	3K -12-TB-BBF-08	1	
9	Head mounting plate	3K-12-TB-BBF-09	1	
10	1500WDelta motor seat	3K-12-TB-BBF-10	1	



11 Head rei	nforcement 3K-12-TB-BBF-11	1	
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### 3. Auto Insertion head exploded view



#### **Auto Insertion head material list**

Item No.	Part number	Description	Quant ity	Remarks
1	Auto Insertion head body	3K-12-TB-CJT-01	1	
2	shaped slider	Special-3K-12-TB-CJT-02	1	
3	fixing block	Mandrel3K-12-TB-CJT-03	1	
4	Rotating block1	3K-12-TB-CJT-04	1	
5	shrapnel	3K-12-TB-CJT-05	1	
6	bearing619-5	3K-12-TB-CJT-06	1	
7	Slider2A	3K-12-TB-CJT-07	1	
8	triangle	3K-12-TB-CJT-08	1	

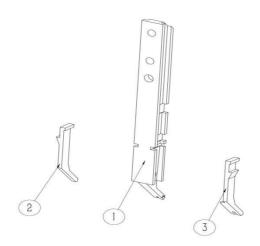


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	slider			
9	pin2	3K-12-TB-CJT-09	1	
10	spacerl	3K-12-TB-CJT-10	1	
11				See the main
I I				mainassembly
12				See the main
				mainassembly See the main
13				mainassembly
	grabgrabgrabLe			
1.4	ft and right	OK 10 TD C IT 14	,	
14	side grab	3K-12-TB-CJT-14	l	
	fixed block			
15	ejector rod	3K-12-TB-CJT-15	1	
16	sliderl	3K-12-TB-CJT-16	1	
17	Rotating wheel	3K-12-TB-CJT-17	1	
18	Auto Insertion	holding3K 12 TR C IT 18	1	
10	headblock	holding3K-12-TB-CJT-18	I	
19	small roller	3K-12-TB-CJT-19	1	
20	spacer	3K-12-TB-CJT-20	1	
21	Auto Insertion	pressure3K-12-TB-CJT-21	1	
Z1	headblock	pressuresk-12-16-C31-21	Į.	
22	buffer glue	3K-12-TB-CJT-22	1	
23	M5x20Kimi	3K-12-TB-CJT-23	6	
	screw	OK 12 15 C31 20	0	
24	M6x20Kimi	3K-12-TB-CJT-24	1	
	screw			
25	M4x20hexagon	3K-12-TB-CJT-25	6	
0/	socket screw	2K 10 TD C IT 2/	0	
26	1.5pin	3K-12-TB-CJT-26	2	
27	small springl	3K-12-TB-CJT-27	2	
28	small spring2	3K-12-TB-CJT-28	l	
29	small spring3	3K-12-TB-CJT-29	2	
30	4pins	3K-12-TB-CJT-30	1	
31	M3screwx10	3K-12-TB-CJT-31	4	
32	pin2(3.175)	3K-12-TB-CJT-32	2	
33	Small pad	3K-12-TB-CJT-33gripMain	1	
<u> </u>	wheel	gripping	I I	

Exploded view and material list of mainassembly specifications: 10.0 Exploded view of main gripping device (including spacing 7.5; 5.0; 2.5)





10.0device material list (including Spacing 7.5; 5.0; 2.5)

Item number	Part number	Description	Quantit y	Remarks
1	bar	Main3K-12-TB-ZCT-01-10.0	1	
2	grabLeft grab	3K-12-TB-ZCT-02-10.0	1	
3	Right grab	3K- 12-TB-ZCT-03-10.0	1	

7.5device material list (including spacing 5.0; 2.5)

7 is device material has (meraam g spasm g sits) 213/						
Item No.	Part No.	Description	Quantit y	Remarks		
1	7.5lever	MainMain3K-12-TB-ZCT- 01-7.5	1			
2	7.5grippinggripping Left gripping	3K-12-TB-ZCT- 02-7.5	1			
3	7.5Right grasp	3K-12-TB-ZCT-03-7.5	1			

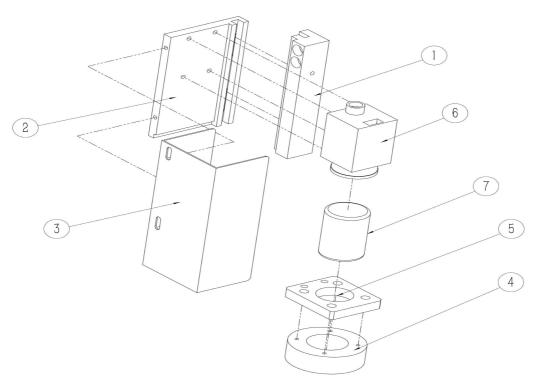
5.0device material list (including spacing 2.5)

	<u> </u>	<u>, ,                                    </u>		
Item No.	Part No.	Description	Quantit y	Remarks
1	5.0lever	Main grippingMain gripping3K-12-TB-ZCT-01- 5.0	1	
2	5.0Grab the left side	3K-12-TB-ZCT-02-5.0	1	
3	5.0Grab the right side	3K-12-TB-ZCT-03-5.0	1	

### 3.5device material list (including spacing 2.5; 5.0)

Item No.	Part No.	Description	Quantit v	Remarks
1	3.5lever	Main grippingMain gripping3K-12-TB-ZCT-01- 3.5	1	
2	3.5Grab the left side	3K-12-TB-ZCT-02-3.5	1	
3	3.5Grab the right side	3K-12-TB-ZCT-03-3.5	1	

### 4. Exploded view of the



### camera part of the material list of the camera part

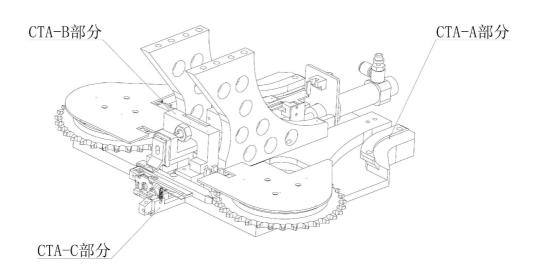
carriera	camera part of the material list of the camera part					
item number	part number	description	quan tity	remarks		
1	scanning head fixing block	3K-12-TB-CJT-01	1			
2	Scanning head fixed vertical	3K-12-TB-CJT-02	1			



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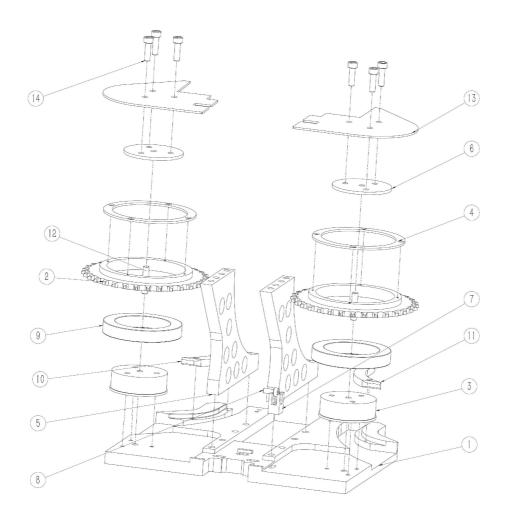
		i		
	platea			
3	Scan head cover	3K-12-TB-CJT-		
4	camera circle	3K-12-TB-CJT-04	1	
5	Camera light mounting platel	3K-12-TB-CJT-05	1	
6	small camera	2016. 3K-12-TB-CJT		
7	Camera head2016.	3K-12-TB-CJT-07	1	

# Fourth, CTA assembly



CTA-A part exploded view





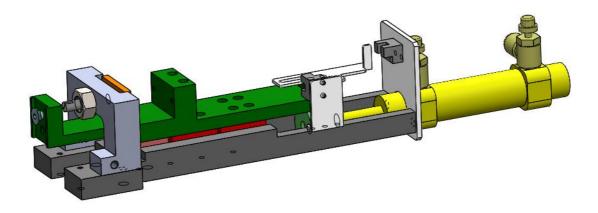
**CTA-A part material list** 

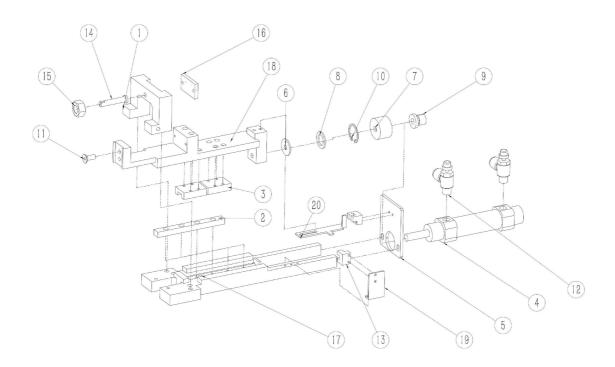
CIA-A part material list					
Item numbe r	Part number	Description	Quan tity	Remarks	
1	CTAmain board	3K-12-CTA-A-01	1		
2	Sprocket gear	3K-12-CTA-A-02	2		
3	Sprocket bearing seat	3K-12-CTA-A-03	2		
4	Sprocket bearing cover	3K-12-CTA-A-04	2		
5	Support framel	3K-12-CTA-A-05	2		
6	Sprocket gasket	3K-12-CTA-A-06	2		
7	screw limit block	3K-12-CTA-A-07	1		
8	M5X12screw	3K-12-CTA-A-08	1		
9	bearing61912	3K-12-CTA-A-09	2		
10	Right White Sai Steel Gasket	3K-12-CTA-A-10	1		



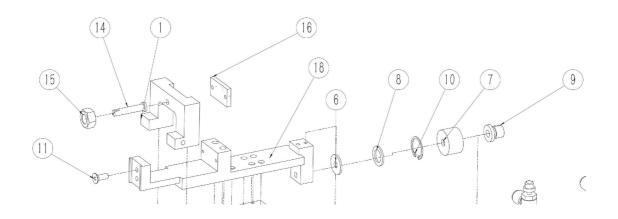
11	Left white steel gasket	3K-12-CTA-A-11	1	
12	pins (diameter6.3, length30)	3K-12-CTA-A-12	2	
13	sprocket guard Cover	3K-12-CTA-A-13	2	
14	M6X30screw	3K-12-CTA-A-14	6	

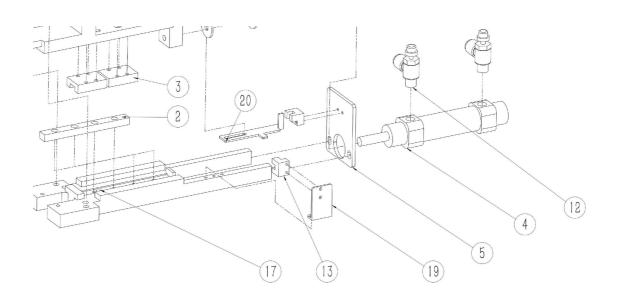
# CTA-B Part Exploded View











#### **CTA-B Part Material List**

Item No.	Part No.	Description	Quanti ty	Remarks
1	Feeding stopper	3K-12-CTA-B-01	1	
2	85slide rail9	3K-12-CTA-B-02	1	
3	slider	3K-12-CTA-B-03	2	
4	CDM2B20-25	3K-12-CTA-B-04	1	
5	cylinder mounting plate	3K-12-CTA-B-05	1	
6	M6screw Youli rubber washer	3K-12-CTA-B-06	1	
7	M8floating head cover	3K-12-CTA-B-07	1	
8	M8screw washer	3K-12-CTA-B-08	1	

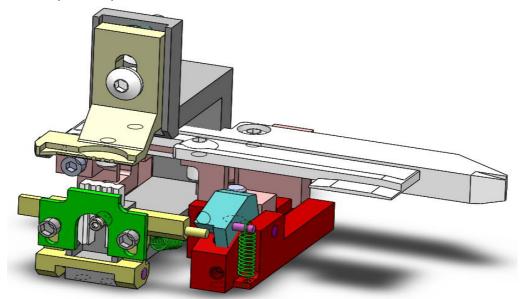


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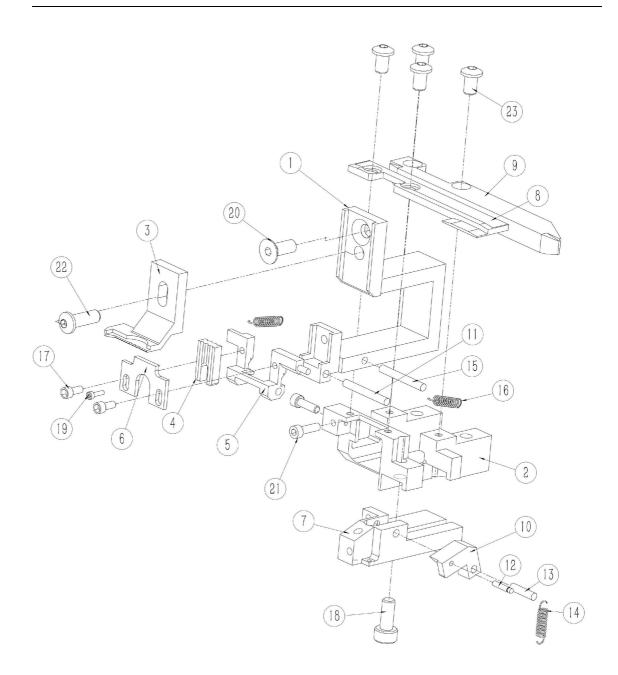
9	M8floating head1	3K-12-CTA-B-09	1	
10	21.5Circlip	3K-12-CTA-B-10	1	

9	M8floating headl	3K-12-CTA-B-09	1	
10	21.5Circlip	3K-12-CTA-B-10	1	
11	M5X10taper screw	3K-12-CTA-B-11	1	
12	Steam pipe joint (JIADI-6)	3K-12-CTA-B-12	2	
13	PM-L24	3K-12-CTA-B-13	2	
14	stroke limit screw	3K-12-CTA-B-14	1	
15	M5nut	3K-12-CTA-B-15	1	
16	CTAbuffer glue	3K-12-CTA-B-16	1	
17	CATslider mounting seat	3K-12-CTA-B-17	1	
18	Feeding bracket1	3K-12-CTA-B-18	1	
19	CTAsensor mounting piece	3K-12-CTA-B-19	1	
20	CTAsensor sheet	3K-12-CTA-B-20	1	

# CTA-C part exploded view







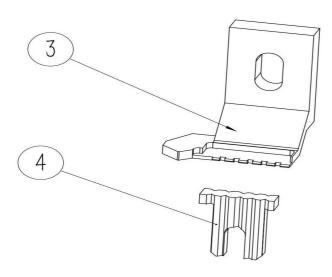
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### **CTA-C** part material list

CIA CP	ait illateriai list			
item	part number	description	quant	quantity
number	1	<u> </u>	ity	1 3
1	curved feeder	3K-12-CTA-C-01	1	
2	feeder iron	3K-12-CTA-C-		
3	Pusher plate	3K-12-CTA-C-		
4	waveform pad	3K-12-CTA-C-		
5	spring clip feeder	3K-12-CTA-C-		
6	clip material	3K-12-CTA-C-06	1	
7	Clip holder	3K-12-CTA-C-07	1	
8	before the chain guard block	3K-12-CTA-C-		
9	Chain rear guard	3K-12-CTA-C-09	1	
10	Feeding stop	3K-12-CTA-C-10	1	
11	Limit pin	3K-12-CTA-C-11	1	
12	limit pinl	3K-12-CTA-C-12	1	
13	Limit pin2	3K-12-CTA-C-13	1	
14	S-shaped elastic springl	3K-12-CTA-C-14	1	
15	limit pin3	3K-12-CTA-C-15	1	
16	S-shaped elastic spring	3K-12-CTA-C-16	2	
17	M3inch screws	3K-12-CTA-C-17	2	
18	M5X12screw	3K-12-CTA-C-18	1	
19	M3 x10screw	3K-12-CTA-C-19	1	
20	M5X10taper screw	3K-12-CTA-C-20	1	
21	M3screwx10	3K-12-CTA-C-21	2	
22	M5X10round head screw	3K-12-CTA-C-22	1	
23	M4X10cup head screw	3K-12-CTA-C-23	4	

#### Exploded view of pusher, wave pad specifications and material list:

1. 10.0 pusher, explosion view of wave pad (including spacing 10; 7.5; 5.0; 2.5)



### 10.0 pusher, wave pad material list

items Number	Part Number	Description	Quan tity	Remarks
3	Pusher-10.0	3K-12-CTA-C-03-10.0	1	
4	Wave pad-10.0	3K-12-CTA-C-04-10.0	1	

# 2. 7.5 Pusher, wave Exploded view of spacer block (including spacing 7.5; 5.0; 2.5)

### 7.5 pusher, wave spacer material list

item number	part number	description	quan tity	note
3	pusher-7.5	3K-12-CTA-C-03-7.5	1	
4	Wave pad-7.5	3K-12-CTA-C-04-7.5	1	-

### 3.5.0 pusher, wave pad exploded view (including spacing 5.0; 2.5)

### 5.0 pusher, wave pad material list

item number	parts Number	Description	Quan tity	Remarks
3	Pushing piece-	3K-12-CTA-C-03-5.0	1	



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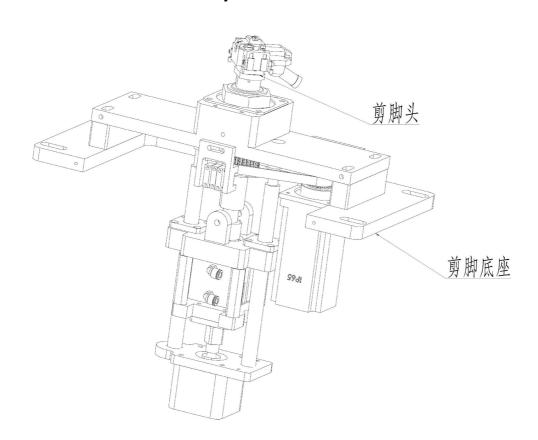
	5.0			
4	Wave pad-5.0	3K-12-CTA-C-04-5.0	1	

# 4, 3.5 Pushing piece, wave pad Exploded view (including spacing 3.5; 5.0; 2.5)

# 3.5 pusher, wave pad material list

item number	part number	description	quan tity	note
3	pusher-3.5	3K-12-CTA-C-03-3.5	1	
4	wave pad Block-3.5	3K-12-CTA-C-04-3.5	1	

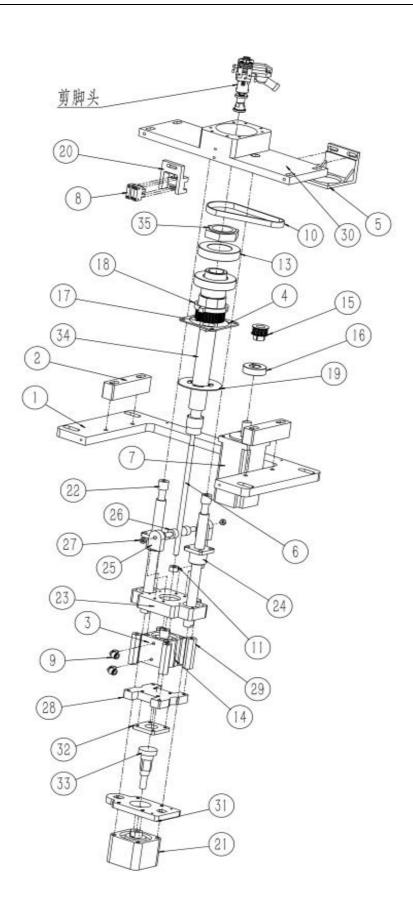
# 4. Scissor foot assembly

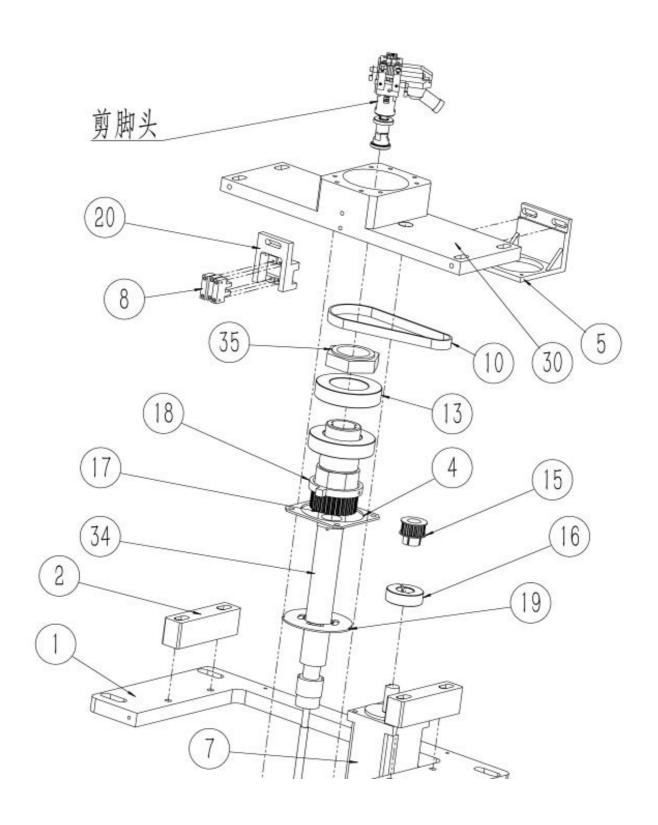




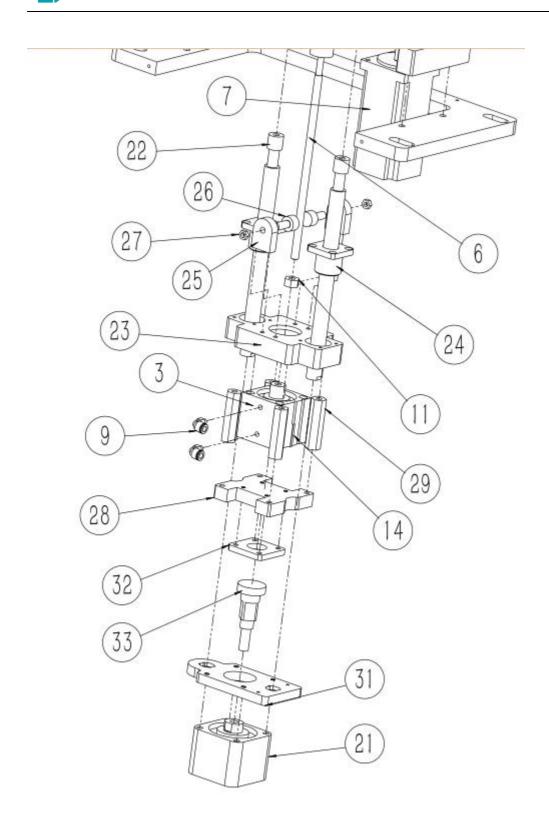
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Scissor foot base exploded view





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#### Scissor base material list

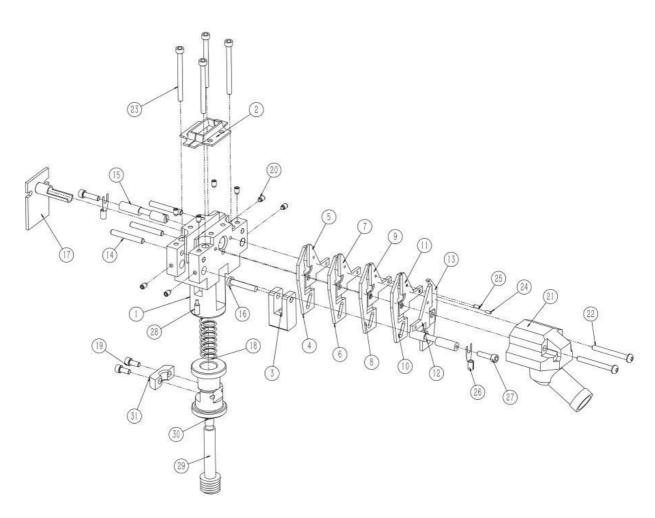
item	e material list part number	description	quan	quantity
number	-	-	tity	quarretty
1	base bottom plate	3K-12-JJDZ-01	1	
2	Base block	3K-12-JJDZ-02	2	
3	Base cylinder2	3K-12-JJDZ-03	1	
4	squared washer	3K-12-JJDZ-04	1	
5	Base motor mount	3K-12-JJDZ-05	1	
6	cylinder2connecting rod	3K-12-JJDZ-06	1	
7	400Wmotor	3K-12-JJDZ-07	1	
8	SX670	3K-12-JJDZ-08	3	
9	Steam pipe joint1	3K-12-JJDZ-09	2	
10	belt	3K-12-JJDZ-10	1	
11	M8stainless steel nut	3K-12-JJDZ-11	1	
12	Base Acrylic Cover	3K-12-JJDZ-12	1	No use
13	Bearing6008Z	3K-12-JJDZ-13	2	
14	Magnetic switch (SMC-D-A93)	3K-12-JJDZ-14	1	
15	Motor push rod pulleyA	3K-12-JJDZ-15	1	
16	18ring	Holding3K-12-JJDZ- 16	1	
17	Base rotating pulley2	3K-12-JJDZ-17	1	
18	Base rotation limit	3K-12-JJDZ-18	1	
19	Base rotating induction plate 3	3K-12-JJDZ-19	1	
20	base rotating induction block	3K-12-JJDZ-20	1	
21	cylinderACQ50X10-S	3K-12-JJDZ-21	1	
22	guide post	3K-12-JJDZ-22	2	
23	Fork frame fixing block	3K-12-JJDZ-23	1	
24	Copper sleevel6	3K-12-JJDZ-24	2	
25	small fork frame	3K-12-JJDZ-25	2	
26	Follower bearing-A	3K-12-JJDZ-26	2	
27	M6nut.	3K-12-JJDZ-27	2	
28	Fixed platel	3K-12-JJDZ-28	1	
29	hexagonal column	3K-12-JJDZ-29	4	



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30	Scissor base	3K-12-JJDZ-30	1	
31	Cylinder fixing platel	3K-12-JJDZ-31	1	
32	floating joint clamp	3K-12-JJDZ-32	1	
33	floating jointl	3K-12-JJDZ-33	1	
34	Base spline shaft1	3K-12-JJDZ-34	1	
35	customized nut1	3K-12-JJDZ-35	1	

### Cut toe head exploded view



#### ScissorMaterial List

0010001	material List			
Item No.	Part Number	Description	Quanti ty	Remark
1	ScissorBody	ToeToe3K-12-JJQ- 01	1	
2	Cut toe iron cover	3K-12-JJQ-02	1	
3	Shear pin connector block	3K-12-JJQ-03	1	
4	Shear foot movable blade10.0	3K-12-JJQ- 04Wearable	1	parts
5	Shear foot fixed blade10.0	3K-12-JJQ- 05Wearable	1	parts
6	Shear foot movable blade7.5	3K-12-JJQ-06	1	Vulnerable Pieces of
7	fixed blades for scissor feet7.5	3K-12-JJQ-07	1	wearing parts
8	movable blades for scissor feet5.0	3K-12-JJQ-08	1	wearing parts
9	fixed blades for scissor feet5.0	3K-12-JJQ-09	1	easyparts
10	Shear foot movable blade2.5	Wearable3K-12- JJQ-10Wearable	1	parts
11	Shear foot fixed blade2.5	3K-12-JJQ- 11Wearable	1	parts
12	Shear foot fixed blade	3K-12-JJQ-12	1	Easyparts
13	Shear foot movable blade	Worsted3K-12- JJQ-13Wearable	1	parts
14	Shear foot knife pin	3K-12-JJQ-14	3	

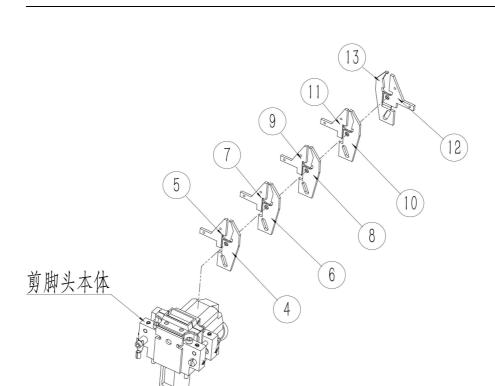


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15	Scissor pin2	3K-12-JJQ-15	2	
16	Foot trimmer accessories2	3K-12-JJQ-16	1	
17	material foot snorkel	3K-12-JJQ-17	1	
18	Clipper spring	3K-12-JJQ-18	1	
19	M3X6inch screw	3K-12-JJQ-19	2	
20	M3X4inch Kimi screw	3K-12-JJQ-20	9	
21	Scissor accessories4	3K-12-JJQ-21	1	
22	M3X25inch screw	3K-12-JJQ-22	2	
23	M3X32inch screw	3K-12-JJQ-23	4	
24	Scissor pinl	3K-12-JJQ-24	1	
25	Scissor knife hollow pin	3K-12-JJQ-25	1	
26	line plug	3K-12-JJQ-26	2	
27	M3X10inch screw	3K-12-JJQ-27	2	
28	spring Kimi screw	3K-12-JJQ-28	1	
29	Scissor accessories8	3K-12-JJQ-29	1	
30	Scissor accessories7	3K-12-JJQ-30	1	
31	Foot trimmer accessories6	3K-12-JJQ-31	1	

### Scissor blade specifications exploded view and material list:

1.blade specifications explosion chart



### 10.0 Scissor10.0 Scissor blade specifications material list

10.0 3cissor blade specifications material list						
Item No.	Part number	Description	Quantit	Remarks		
4	Scissor movable blade10.0	3K-12-JJT-04-10.0	1			
5	Scissor foot fixed blade10.0	3K-12-JJT-05-10.0	1			
6	Scissor foot movable blade7.5	3K-12-JJT-06-7.5	1			
7	Scissor foot fixed blade7.5	3K-12-JJT-07-7.5	1			
8	Shear foot movable blade5.0	3K-12-JJT-08-5.0	1			
9	Scissor foot fixed blade5.0	3K-12-JJT-09-5.0	1			
10	Scissor foot movable blade2.5	3K-12-JJT-10-2.5	1			
11	Scissor foot fixed blade2.5	3K-12-JJT-11-2.5	1			
12	Scissor foot fixed blade	3K-12-JJT-12	1			
13	Scissor foot movable blade	3K-12-JJT-13	1			

### 7.5 Scissor blade specifications material list

7.5 Scissor blade specifications material list					
Item No.	Part number	Description	Quant ity	Remarks	
4	Scissor movable blade7.5	3K-12-JJT-06- 7.5Wearable	1	parts	
5	Scissor fixed blade7.5	3K-12-JJT-07-7.5	1	parts	
6	Shear foot movable blade5.0	Wearable3K-12-JJT-08- 5.0Wearable	1	parts	
7	Shear foot fixed blade5.0	3K-12-JJT-09- 5.0Wearable	1	parts	
8	Shear foot movable blade2.5	3K-12 -JJT-10- 2.5Wearable	1	parts	
9	Shear foot fixed blade2.5	3K-12-JJT-11- 2.5Wearable	1	parts	
10	Shear foot fixed blade	3K-12-JJT-12Wearable	1	parts	
11	Shear foot movable blade	3K-12-JJT-13	1	consumab les	

### 5.0blade shear pinspecifications BOM

number item	Part number		numbe r of	Remark
4	movable bladeshear pin	5.0 3K-12-JJT-08-5.0	1 01	consumab les
5	shear pin fixed blade5.0	3K-12-JJT-09- 5.0Wearable	1	parts
6	Shear foot movable blade2.5	3K-12-JJT-10- 2.5Wearable	1	parts
7	Shear foot fixed blade2.5	3K-12-JJT-11-2.5	1	Easy Damaged parts
8	Scissor foot fixed blade	3K-12-JJT-12Wearable	1	parts



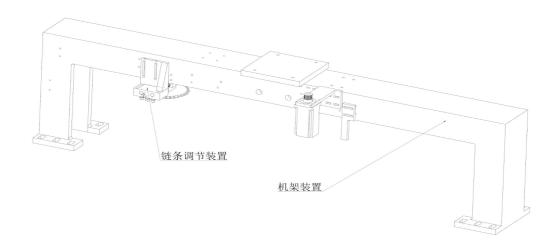
9	Scissor foot movable blade	3K-12-JJT-13Wearable	1	parts	
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#### 3.5 Scissor blade specifications Material list

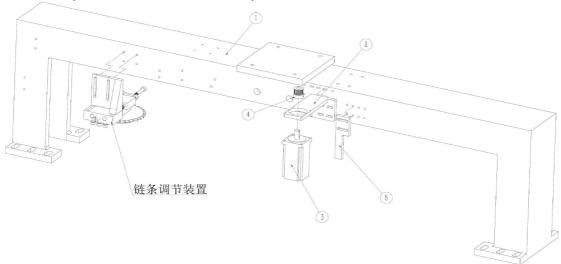
- 10:00 0:00 0 p 0 0 11:00 0:00 1			
Part number	Description	Quant	Remarks
		1 t y	
Cutting foot	3K-12-JJT-06-	1	parts
movable blade7.5	3.5Wearable	I	parts
Scissor foot	3K-12-JJT-07-	1	,
fixed blade7.5	3.5Wearable	ļ	parts
Scissor foot	3K-12-JJT-08 -5.0	1	n a zat a
movable blade5.0		l	parts
Shear foot fixed	Wearable3K-12-JJT-09-	1	
blade5.0	5.0Wearable	I	parts
Shear foot	3K-12-JJT-10-	1	
movable blade2.5	2.5Wearable	I	parts
Shear foot fixed	3K-12-JJT-11-	1	
blade2.5	2.5Wearable	I	parts
Scissor foot	2K 10 LIT 10M/2 2m 2d 2	1	
fixed blade	3K-12-JJ1-12Wedrable		parts
Scissor foot	2K 10 LIT 12M/2 2m 2d 2	1	parts
movable blade	3K-12-JJ1-13Wedrable		
	Part number  Cutting foot movable blade7.5  Scissor foot fixed blade7.5  Scissor foot movable blade5.0  Shear foot fixed blade5.0  Shear foot movable blade2.5  Shear foot fixed blade2.5  Scissor foot fixed blade Scissor foot	Cutting foot movable blade7.5 3.5Wearable Scissor foot 3K-12-JJT-07- fixed blade7.5 3.5Wearable Scissor foot 3K-12-JJT-08-5.0 Shear foot fixed blade5.0 Wearable3K-12-JJT-09- blade5.0 Shear foot 3K-12-JJT-10- movable blade2.5 2.5Wearable Shear foot fixed blade Scissor foot 3K-12-JJT-11- 2.5Wearable Scissor foot 3K-12-JJT-11- 3K-12-JJT-12Wearable Scissor foot 3K-12-JJT-12Wearable	Part number  Description  Quant ity  Cutting foot

# 5. Cross beam assembly





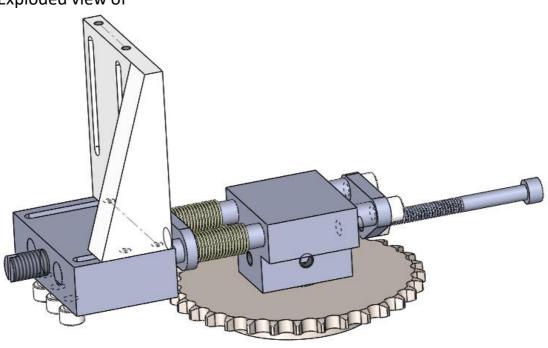
# frame Exploded view of the components of the

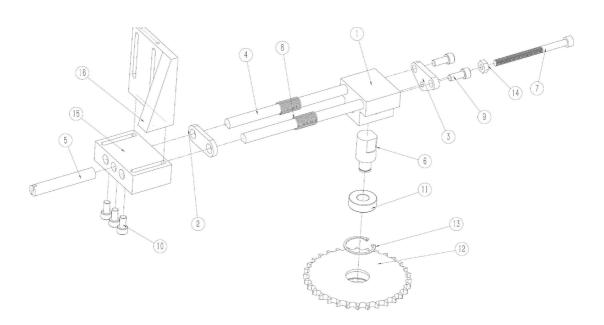


#### rack device material list

Tack device material list				
item number	part number	description	quan tity	remarks
1	conjoined machine working rack.	3K-12-JJZZ-01	1	
2	Head steering motor mounting seat	3K-12-JJZZ-02	1	
3	400Wmotor	3K-12-JJZZ-03	1	
4	steering pulleyA-15teeth	3K-12-JJZZ-04	1	
5	Chain sliding groove3Hanging plate	3K-12-JJZZ-05	1	

## Exploded view of

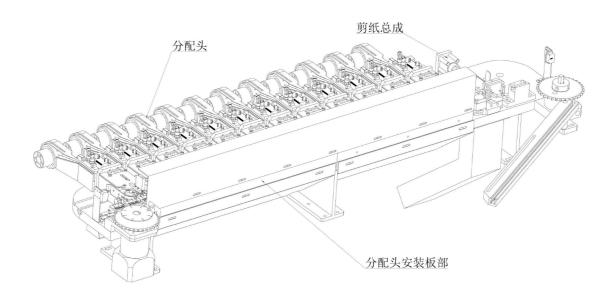


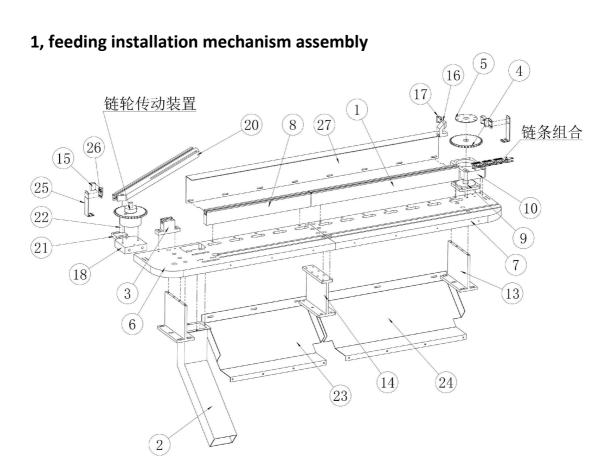


#### chain regulator chain regulator material list

chain regulator chain regulator material list						
item number	part number	description	quan tity	remarks		
1	chain regulator holderl	3K-12-LTTJ-01	1			
2	chain regulator spring baffle	3K-12-LTTJ-02	1			
3	chain adjuster spring bafflel	3K-12-LTTJ-03	1			
4	chain regulator guide post	3K-12-LTTJ-04	2			
5-	chain adjuster adjusting screw	3K-12-LTTJ-05	1			
6	chain adjuster fixed shaft	3K-12-LTTJ-06	1			
7	M81ong screw	3K-12-LTTJ-07	1			
8	chain regulator spring	3K-12-LTTJ-08	2			
9	M8X20screw	3K-12-LTTJ-09	2			
10	M8X15screw	3K-12-LTTJ-10	3			
11	bearing6202	3K-12-LTTJ-11	1			
12	sprocket08B-10	3K-12-LTTJ-12	1			
13	inner circlip (diameter40)	3K-12-LTTJ-13	1			
14	M8nut	3K-12-LTTJ-14	1			
15	1209-1	3K-12-LTTJ-15	1			
16	chain tension fixing seat	3K-12-LTTJ-16	1			

Seven, feeding assembly





distribution head mounting plate material list

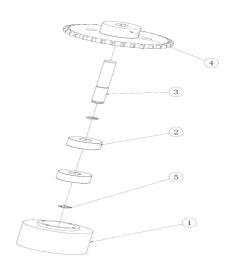


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item number	part number	description	quant	remarks
	chain sliding groove	3K-12-FPTAZB-01	1	
2	Paper-cut garbage funnel	3K-12-FPTAZB-02	1	
3	Adjustment blockof the chain	1 3K-12-FPTAZB-03		
4	sprocket08B-1	3K-12-FPTAZB-04	1	
5	Chain origin sensor	3K-12-FPTAZB-05	1	
6	Distribution head mounting platel	3K-12-FPTAZB-06	1	
7	Distribution head mounting plate2	3K-12-FPTAZB-07	1	
8	Chain sliding groove2	3K-12-FPTAZB-08	1	
9	DH090reducer	3K-12-FPTAZB-09	1	
10	Retrofit platel	3K-12-FPTAZB-10	1	
11	16004Bearing	3K-12-FPTAZB-11	2	
12	Sprocket bearing capA	3K-12-FPTAZB-12	1	
13	Distributing head mounting plate support block	3K-12-FPTAZB-13	2	
14	Distributing head mounting plate support blockA	3K-12-FPTAZB-14	1	
15	Infrared sensor	3K-12-FPTAZB-15	2	
16	chain tail sensor bracket	3K-12-FPTAZB-16	1	
17	SX670.	3K-12-FPTAZB-17	1	
18	Rightplate	mounting3K-12- FPTAZB-18	1	
19	gasket	3K-12-FPTAZB-19	1	
20	chain auxiliary slot	3K-12-FPTAZB-20	1	
21	Chain groove3Mounting plate	3K-12-FPTAZB-21	1	
22	chain sliding groove support column	3K-12-FPTAZB-22	1	
23	Paper baffle	3K-12-FPTAZB-23	1	
24	Paper baffle-B	3K-12-FPTAZB-24	1	

25	Feeder return sensor bracket1	3K-12-FPTAZB-25	2	
26	return feed sensor mounting pieces	3K-12-FPTAZB-26	2	
27	station identification board	3K-12-FPTAZB-27	1	

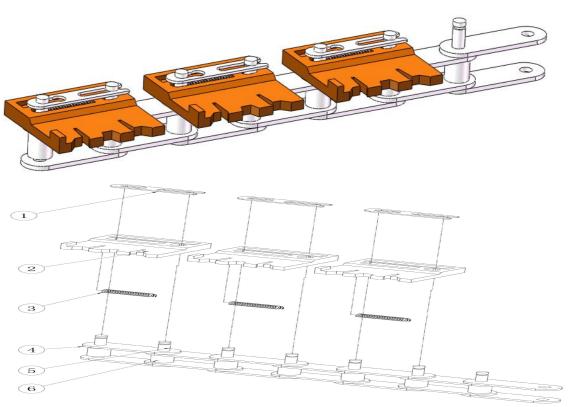
### 2. Sprocket drive assembly



#### sprocket drive material list

sprocket drive material list				
item number	part number	description	quan tity	remarks
1	sprocket08B- lfixed seat	3K-12-LLCDZZ-01	1	
2	bearing6302	3K-12-LLCDZZ-02	2	
3	sprocket08B- lshaft	3K-12-LLCDZZ-03	1	
4	sprocket08A-1	3K-12-LLCDZZ-04	1	
5	internal circlip (diameter	12) 3K-12-LLCDZZ-		

### 3. Exploded view of



#### chain combination material list of chain combination

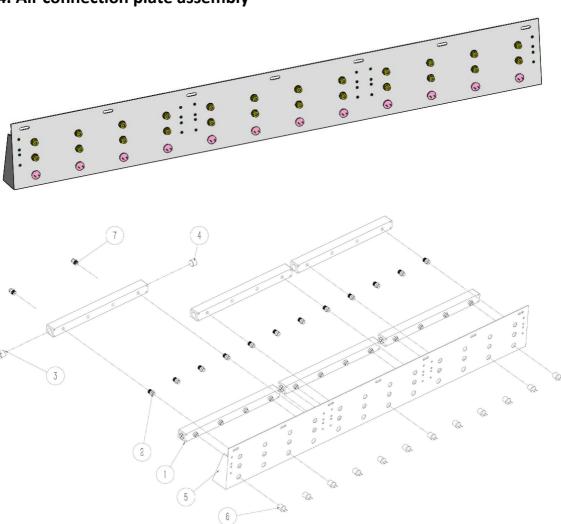
chair combination material ist of chair combination						
item number	part number	description	quant ity	remarks		
1	U-shaped long circlip	3K-12-LTZH-01				
2	Chain clip	3K-12-LTZH-02		Remarks good specification s		
3	Spring	3K-12-LTZH-03		see next page		
4	Chain	3K-12-LTZH-04	1			
56						

## Chainandfolders specifications exploded view BOM

Item Number	Part Number		the number of	Remark
3	chain clip	10.0 3K-12-LTZH-03-10.0		
	chain clip	7.5 3K-12-LTZH-03-7.5		
	5.0 clip strand	3K-12-LTZH-03-5.0	3	
3	chain clamp 3.5	3K-12-LTZH-03-3.5		compatible with 5.0

2	chain alama 2 5	3K-12-LTZH-03-2.5	special 2.5
ی	chain clamp 2.5	3N-12-L12H-U3-2.3	special 2.5

### 4. Air connection plate assembly



### air connection plate Part of the bill of materials

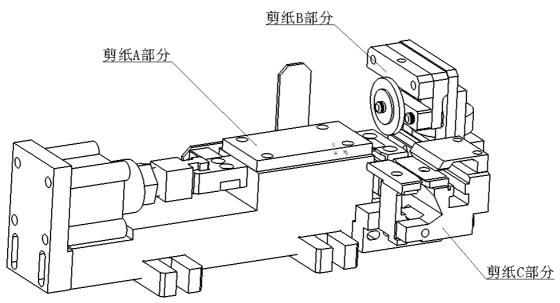
Item number	Part number	Description	Quant ity	Remarks
1	Air distribution pipe	3K-12-JQBBF-01	6	
2	Steam pipe jointPC10-01	3K-12-JQBBF-02	24	
3	18Youli	Rubber Washer 3K-12- JQBBF-03	4	
4	Two-way pipe tail screw	3K-12-JQBBF-04	8	
5	Trachea sealing plate	3K-12-JQBBF-05	1	



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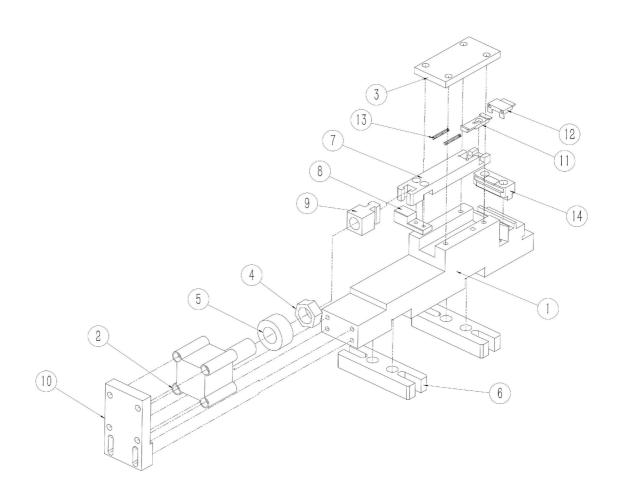
6	Aviation connector	3K-12-JQBBF-06	12	
7	Steam pipe jointPC12-3	3K-12-JQBBF-07	2	

#### 5. Paper-cutting assembly



Paper-cutting Part A exploded drawing





#### Paper-cutting Part A Material list

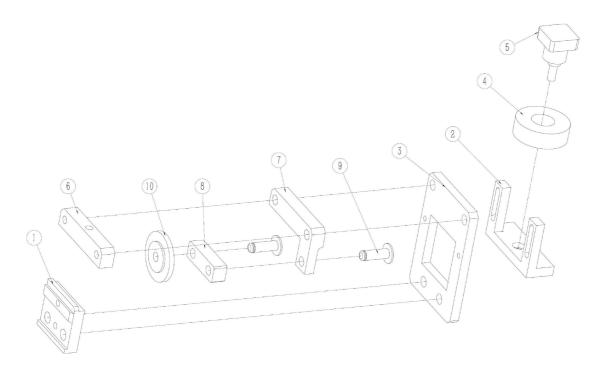
Paper-cutting Part A Material list					
Item No.	Part No.	Description	Quant ity	Remarks	
1	Base	3K-12-JZ-ABF-01	1		
2	cylinder	3K-12-JZ-ABF-02	1		
3	Paper-cut seat cover2	3K-12-JZ-ABF-03	1		
4	M16nut	3K-12-JZ-ABF-04	1		
5	Rubber ring	3K-12-JZ-ABF-05	1		
6	parts3	3K-12-JZ-ABF-06	2		
7	paper cutting slide	3K-12-JZ-ABF-			
8	paper cutting blade sensor mounting block	3K-12-JZ-ABF-			
9	Paper-cutting	3K-12-JZ-ABF-09	1		



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	cylinder connecting blockl			
10	Paper-cutting cylinder mounting block	3K-12-JZ-ABF-10	1	
11	10.0mmsmall cutter	3K-12-JZ-ABF-11	1	
12	curved push fork	3K-12-JZ-ABF-12	1	
13	Flat fork spring	3K-12-JZ-ABF-13	2	
14	Fixed knife for cutting paper	3K-12-JZ-ABF-14	1	

## Paper-cut Part B Exploded Drawing

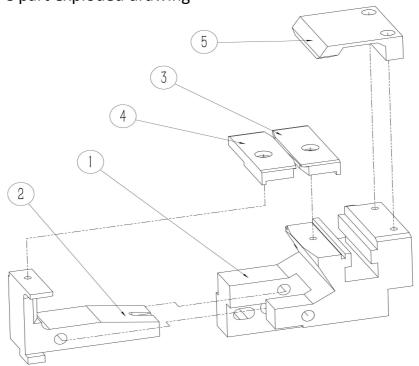


#### Paper-cut Part B Material List

aper eat rait b iviaterial List					
Item Number	Part Number	Description	Quanti ty	Remarks	
1	Part1-1	3K-12-JZ-BBF-01	1		
2	bearings installed version	3K-12-JZ-BBF-			
3	Bearing	3K-12-JZ-BBF-			

	fixing plate			
4	6202Zbearing	3K-12-JZ-BBF-04	1	
5	Bearing positioning block	3K-12-JZ-BBF-05	1	
6	parts9	3K-12-JZ-BBF-06	1	
7	parts13	3K-12-JZ-BBF-07	1	
8	parts2	3K-12-JZ-BBF-08	1	
9	Plastic pin	3K-12-JZ-BBF-		
10	plastic block	3K-12-JZ-BBF-10	1	

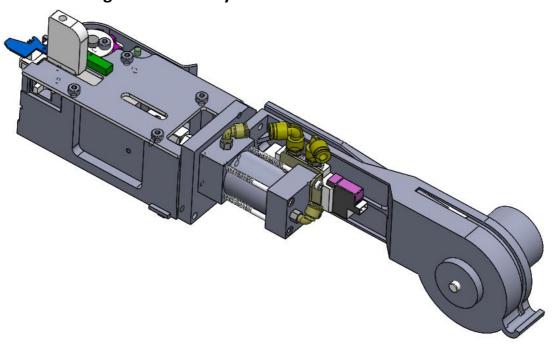
## Paper-cut C part exploded drawing

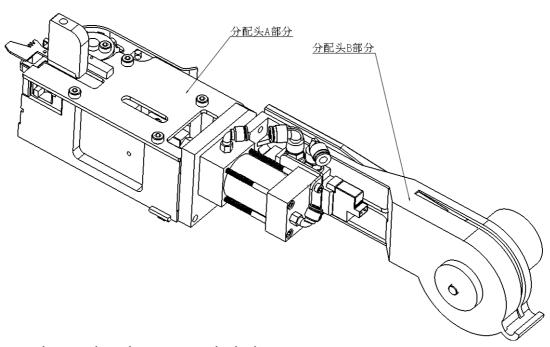


#### Paper-cut C material list

raper-cut e material list						
item number	part number	description	quant ity	remarks		
1	pull paper accessories 1	3K-12-JZ-CBF-01	1			
2	Tractor Parts	2 3K-12-JZ-CBF				
3	draw-knife	2 3K-12-JZ-CBF				
4	Paper cutter 1	3K-12-JZ-CBF-04	1			
5	Chain clamp pressure plate	3K-12-JZ-CBF-05	1			

### 6. Distributing head assembly

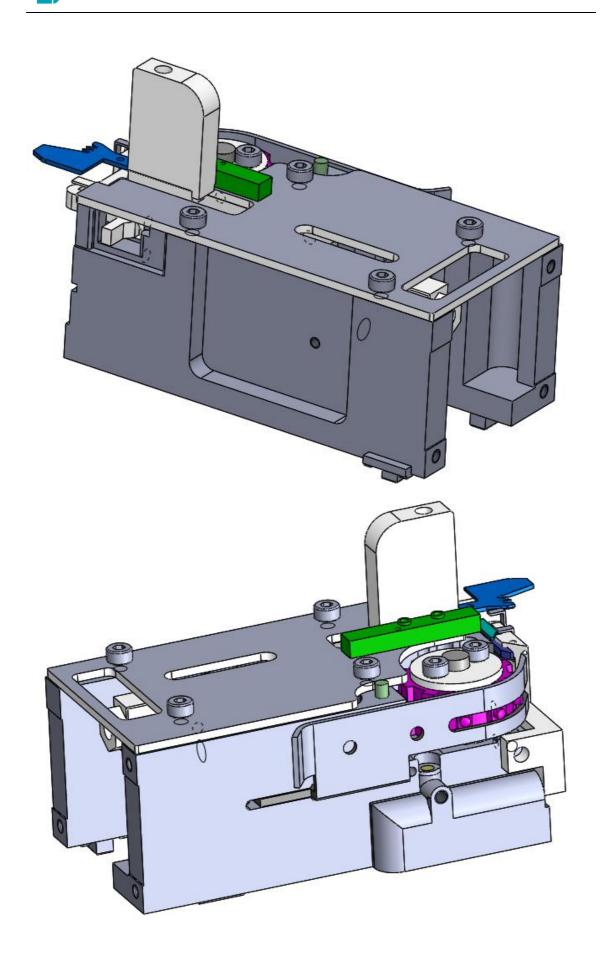




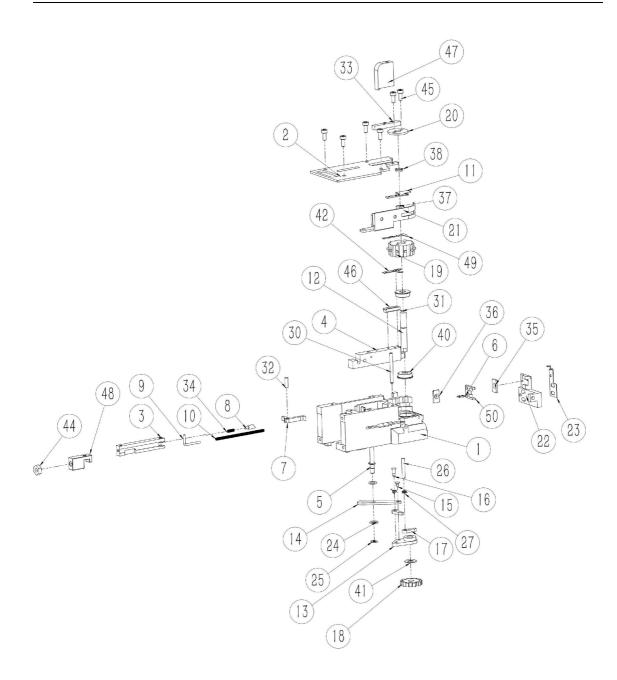
Distributing head part A exploded view











#### Distributing head part A material list

- 10 11 10 10 11 10 10 10 10 10 10 10 10					
Item number	Part number	Description	Quant ity	Quantity	
1	Distributing head body	3K-12-FPT-ABF-01	1		
2	Sheet dispensing	3K-12-FPT-ABF-			



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	head cap			
3	guide block	1 3K-12-FPT-ABF		
4	feed slide	3K-12-FPT-ABF-		
5	Transmission rod2	3K-12-FPT-ABF-05	1	
6	the tape pad	3K-12-FPT-ABF-		
7	hook material grab	3K-12-FPT-ABF-07	1	
8	Elastic top post	3K-12-FPT-ABF-08	1	
9	Bending pin	3K-12-FPT-ABF-09	1	
10	small spring	3K-12-FPT-ABF-10	1	
11	Fork push piece	3K-12-FPT-ABF-11	1	Wearable parts
12	Transmission rodl	3K-12-FPT-ABF-12	1	
13	Feeding gear slider	3K-12-FPT-ABF-13	1	
14	Slide piece	3K-12-FPT-ABF-14	1	
15	Drive pinl	3K-12-FPT-ABF-15	1	
16	Drive pin2	3K-12-FPT-ABF-16	1	
17	pawl	3K-12-FPT-ABF-17	2	
18	feeding gear	3K-12-FPT-ABF-18	1	
19	distribution wheel	3K-12-FPT-ABF-19	1	
20	gland	3K-12-FPT-ABF-20	1	
21	Feeding baffle	3K-12-FPT-ABF-21	1	
22	Cutter mounting block	3K-12-FPT-ABF-22	1	
23-	station induction baffle	3K-12-FPT-ABF-23	1	
24	Gasket1	3K-12-FPT-ABF-24	2	
25	card bullets1	3K-12-FPT-ABF-25	2	
26	Spring latch1	3K-12-FPT-ABF-26	1	
27	Spring5	3K-12-FPT-ABF-27	3	
28	induction film positioning pin	3K-12-FPT-ABF-28	1	
29	induction copper sheet	3K-12-FPT-ABF-29	1	

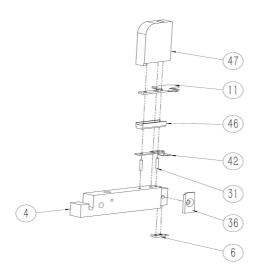
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30	drive pin4	3K-12-FPT-ABF-30	1	
31	baffle positioning pin	3K-12-FPT-ABF-31	2	
32	Drive pin6	3K-12-FPT-ABF-32	1	
33	detection board	3K-12-FPT-ABF-33	1	
34	spring6	3K-12-FPT-ABF-34	1	
35	paper tape cutter	3K-12-FPT-ABF-35	1	
36	Sliding cutter	3K-12-FPT-ABF-36	1	
37	open outer gasket	3K-12-FPT-ABF-37	1	
38	open inner gasket	3K-12-FPT-ABF-38	1	
39	spring7	3K-12-FPT-ABF-39	1	
40	bearingFR62	3K-12-FPT-ABF-40	2	
41	Copper Washer	3K-12-FPT-ABF-41	1	
42	curved push piece	3K-12-FPT-ABF-42	1	
43	card bullets2	3K-12-FPT-ABF-43	1	
44	cylinder nut (M8)	3K-12-FPT-ABF-44	1	
45	M5X12screw	3K-12-FPT-ABF-45	6	
46	feeding sensor baffle seat	3K-12-FPT-ABF-46	1	
47	feeding sensor baffle seatA	3K-12-FPT-ABF-47	1	
48	cylinder connecting block	3K-12-FPT-ABF-48	1	
49	copper sheet	3K-12-FPT-ABF-49	1	
50	cover piece	3K-12-FPT-ABF-50	1	

wearing parts  $for k^- type pusher \mbox{Exploded}$  view and material list of the specifications of the:

10.0fork-typeExploded view of thepusher



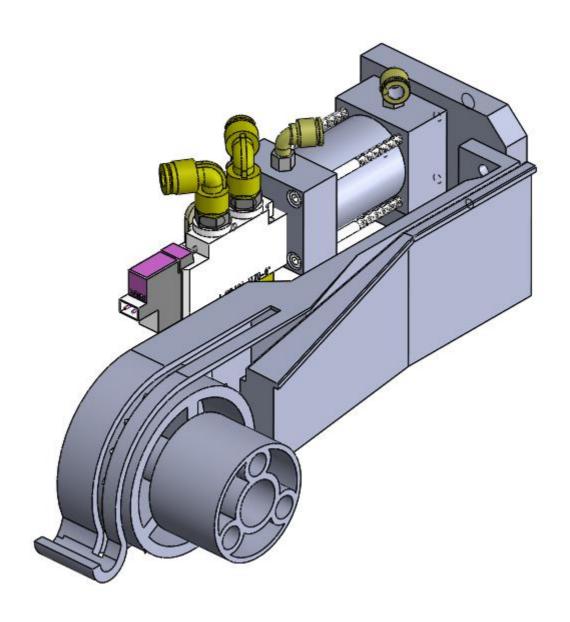


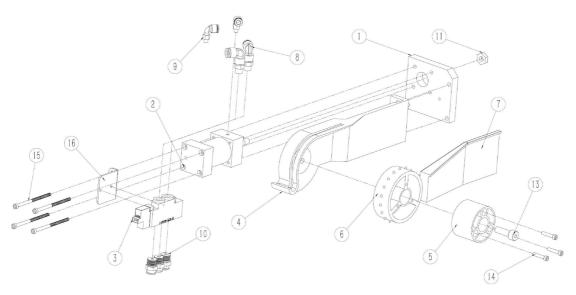
10.0Fork-

#### typepush piecematerial list:

сурсрав.	n proceniateriariis	) L .		
item number	part number	description	quanti ty	remarks
4	feeding slider	3K-12-FPT-ABF-04	1	
6	the tape pad	3K-12-FPT-ABF-		
11	Fork push plate	3K-12-FPT-ABF-11-10.0	1	2.5 5.0 7.5 3.5
31	Block positioning pin	3K-12-FPT-ABF-31	2	
36	Sliding cutter	3K-12-FPT-ABF-36	1	
42	curved push piece	3K-12-FPT-ABF-10.0	1	2.5 5.0 7.5 3.5
46	feeding sensor baffle seat	3K-12-FPT-ABF-46	1	
47	feeding sensor baffle seatA	3K-12-FPT-ABF-47	1	

Distributing head part B exploded view





### Distributing head part B material list

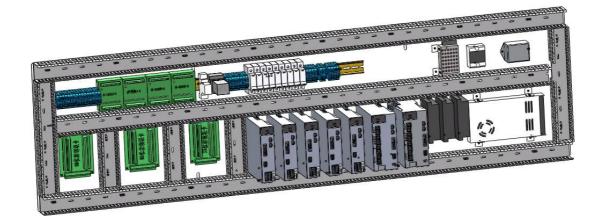
item number	part number	description	quant ity	remarks
1	distribution head cylinder mounting plate	3K-12-FPT-BBF-01	1	
2	Dispensing cylinder head	A 3K-12-FPT-BBF		
3	Battery valve	3K-12-FPT-BBF-		
4	Plastic tape guiding element	3K-12-FPT-BBF-		
5	the tape guide wheel	1 3K-12-FPT-BBF		
6	the tape guide roller	3K-12-FPT-BBF-		
7	Plastic tape guide seat	1 3K-12-FPT-BBF		
8	steam pipe joint	3K-12-FPT-BBF-08	2	
9	Steam pipe jointl	3K-12-FPT-BBF-09	2	
10	Steam pipe joint2	3K-12-FPT-BBF-10	3	
11	Cylinder nut (M8)	3K-12-FPT-BBF-11	1	
12	M8Xscrew washer	3K-12-FPT-BBF-12	1	
13	M8X25screw	3K-12-FPT-BBF-13	1	
14	M4X20screw	3K-12-FPT-BBF-14	3	
15	M4X70screw	3K-12-FPT-BBF-15	4	
16	Solenoid valve fixing block	3K-12-FPT-BBF-16	1	

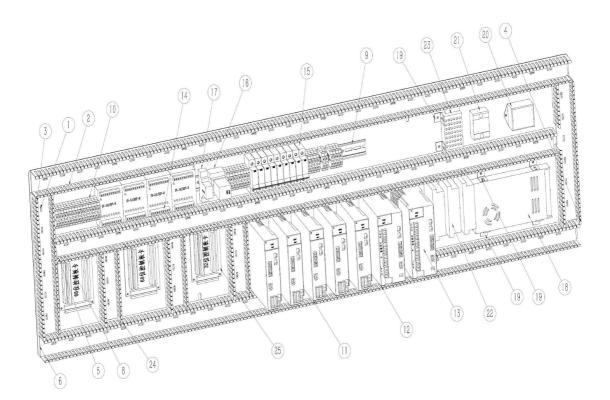
Vertical machine 12-station wiring board annotation diagram





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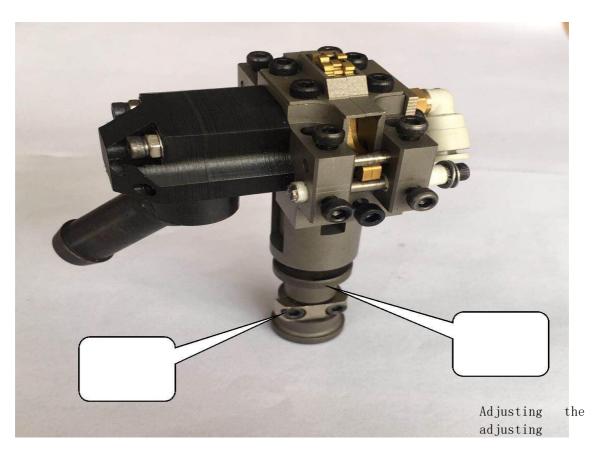
#### Vertical machine 12-station wiring board material list

	aciiiie 12-Station Wif	ring board material list	1	
item	part number	description	quant	note
number			ity	
1	vertical front wiring board	3K-12-BXB-01	1	
2	wire slot1540	3K-12-BXB-02	1	
3	wire slot330	3K-12-BXB-03	2	
4	trough	330-2 3K-12-BXB-04		
5	wire slot1243	3K-12-BXB-05	1	
6	slot	1540-2 3K-12-BXB-06		
7	trunking178	3K-12-BXB-07	1	
8	68-bit wiring	3K-12-BXB-08	2	
	board	3K-12-0AD-00		
9	fixed slot	3K-12-BXB-09	1	
10	Terminal	3K-12-BXB-10	35	
11	400Wserver	3K-12-BXB-11	5	
12	750Wserver	3K-12-BXB-12	1	
13	1.5KWserver-TAID	3K-12-BXB-13	1	
14	SV-5A1R8P-N	3K-12-BXB-14	7	
15	CHNTswitchC10	3K-12-BXB-15	9	
16	OMRON MKS3P	3K-12-BXB-16	1	
17	G2R-1-SN(S)	3K-12-BXB-17	1	
18	24Vpower supply	3K-12-BXB-18	1	
	24Vpower supply			sheet
19	mount	3K-12-BXB-19	6	metal
00		0K 10 DVD 00	1	parts
20	filter220V	3K-12-BXB-20		
21	Solid State Relay	3K-12-BXB-21	1	
22	drives DM542C	3K-12-BXB-22	3	
23	12VNWpower	3K-12-BXB-23	1	
24	supply wire slot168	3K-12-BXB-24	3	
<u>∠4</u>	32-bit wiring	JN-12-DAD-24	3	
25	board	3K-12-BXB-25	1	



## Cut toe adjustment

1. Loosen the fixing screw of the adjusting seat and adjust the adjusting seat so that Close the foot cutter upwards 1/2-4/5 and tighten the fixing screws.

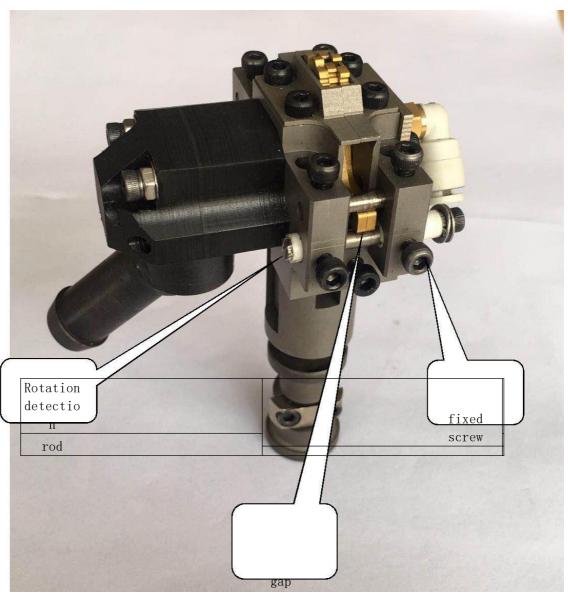


screws



52, the shear pin is detected shear pin adjustment, loosen the the detection rod

fixingscrew to adjustso that the eccentric pin between the fixed blade screwdriver blade contact surface detection rod from 0.05 0.1mmgap.



0.05-0.1mm



## CTA adjustment

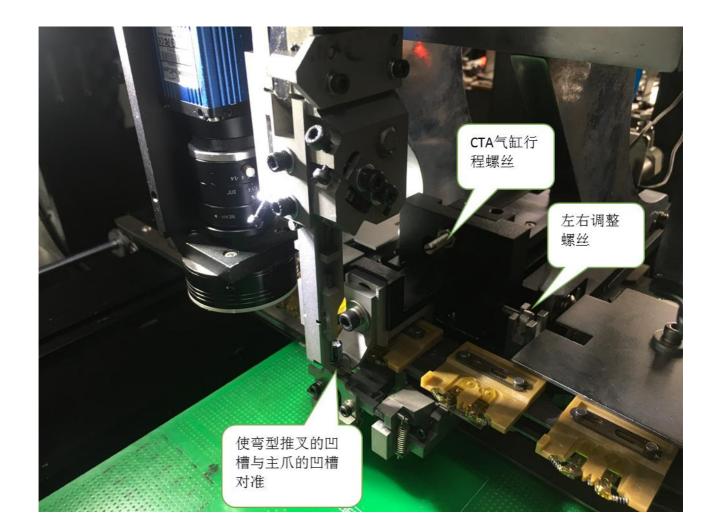
#### 1. CTA removalRemove

1. the L axis chain from the CTA position, remove the CTA air pipe and phand then remove theat the bottom of the CTA

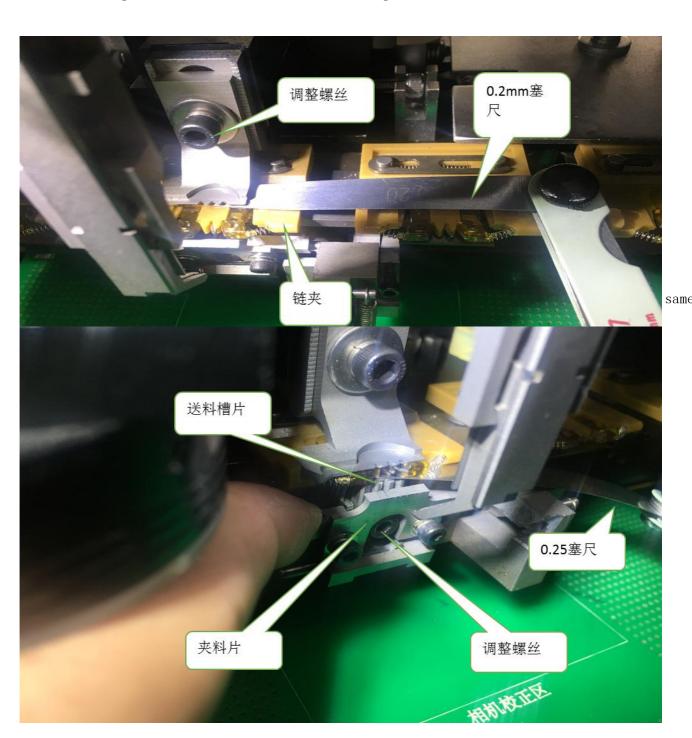
three M6 screwsfrom the machine (The entire CTA is removed from the mach

#### Second, CTA position adjustment

1. Slightly loosen the three M6 screws at the bottom of the left and rig align the curved push fork groove with the groove of the main claw, and then adjust the CTA cylinder The stroke screw is just pushed onto th component is not deformed.

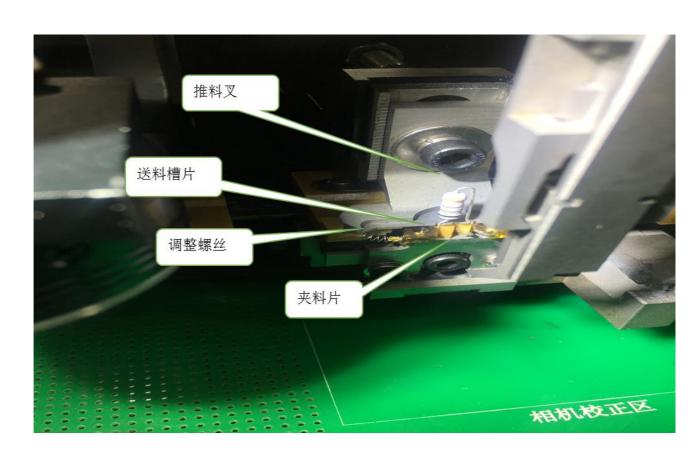


3. Loosen the curved push fork screw to adjust the surface of the curved push fork and the chain clamp to 0.2mm.





4. Adjust the screw to make When feeding, the pusher fork, the feedin material clamping piece clamp the component feet at the same time.



5. Adjust the pusher cylinder to return to the origin. The distance between the pusher fork slope and the chain clamp slope is 1.5mm.

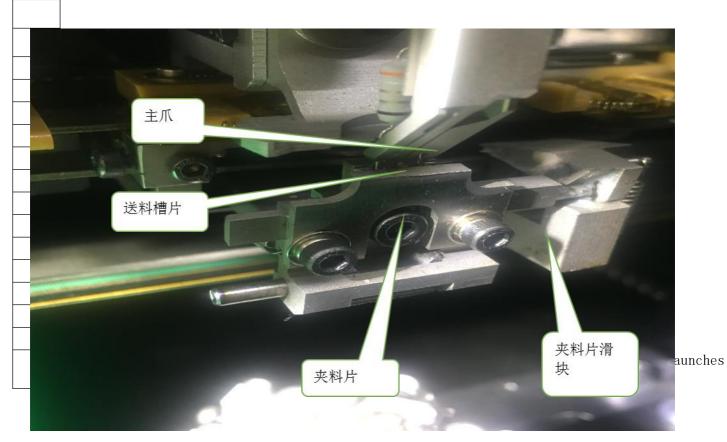




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6. Adjust the main jaw and the feeding slot to about 1.5mm And the pushing for cannot hit the main claw, then adjust the clamping piece slider to open the piece by 2-3mm.





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Just make sense to place sensor chip inductor (Note: Home sensor, place the sensor can not sense in advance to)

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seven or adjust the home position sensor chip can sense just right, CTA laun 1mm sensor lights, adjust the CTA

positionThe sensor seat makes the sensor plate just sense the in-position set (note: the origin sensor and the in-position sensor cannot be sensed in advance)



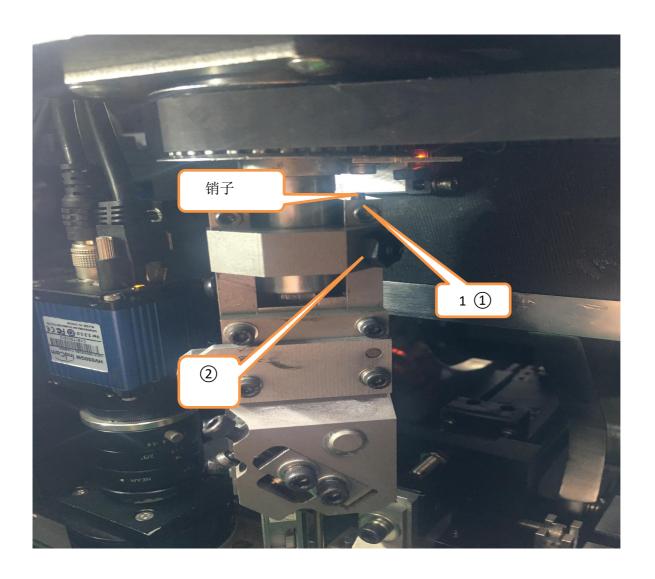
ork and the



## Plug-in head adjustment

#### 4. Plug-in head disassembly

**5.** 



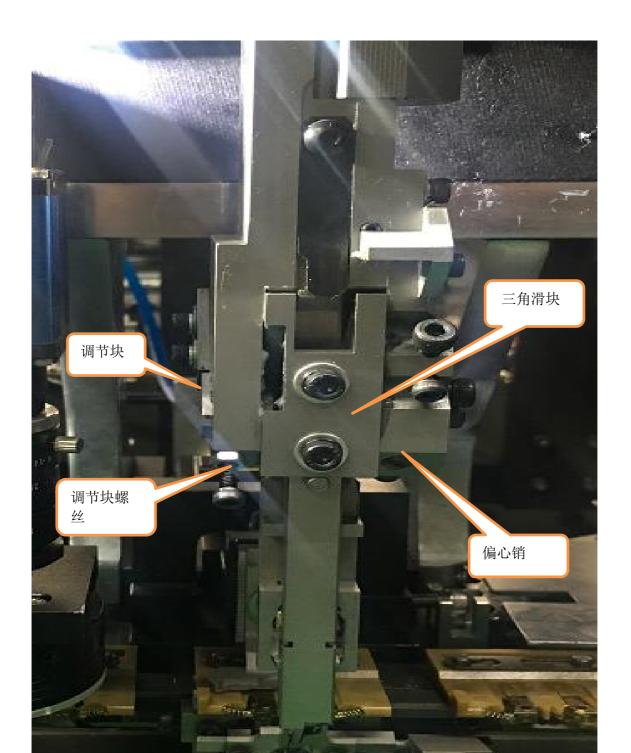
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#### 2. Adjust the tightness of the plug-in head

1. Use a flat-blade screwdriver to adjust the eccentric pin so that there is no swing left and right, and the triangle slide block goes up and down smoothly. Adjust the adjusting block screw to make the triangle slide block no swing.

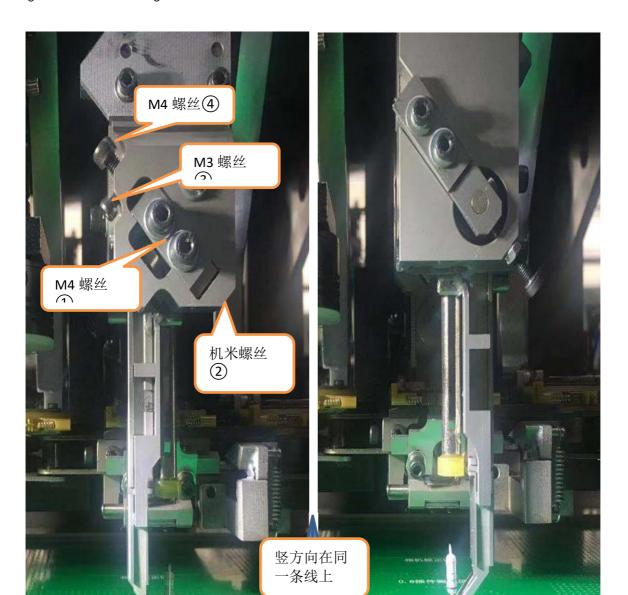


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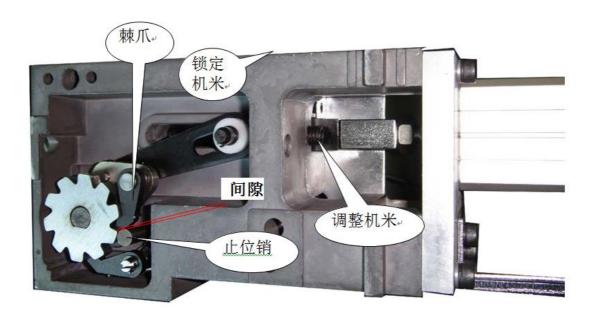
2.  $\mathscr{C} \sim \mathsf{N} \cup \mathsf{V}$   $\S \in \cup$   $\S \exists \land *4 \ \mathsf{N}' \cup \exists \land \lozenge$ ,  $\downarrow \land \land \mathsf{N} \cup \mathsf{V}$   $\S \in \cup$   $\mathsf{N} \otimes \mathsf{N} \otimes \mathsf{V} \cup \mathsf{N} \otimes \mathsf{N$ 





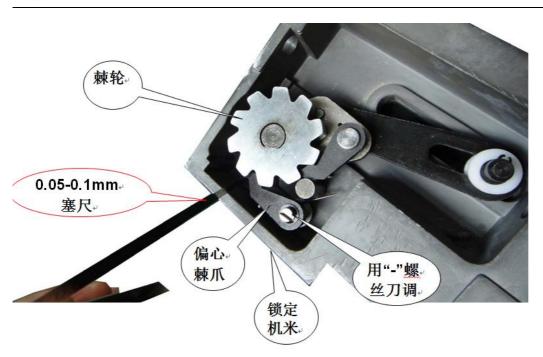
## Feeder adjustment

1. The bottom of the dispensing head is upwards. When adjusting the main slider to return to the position (adjusting the machine meter 8mm), make the distance between the pawl and the stop pin 0.01-0.05mm, and lock the noodle machine. (Adjusted below)

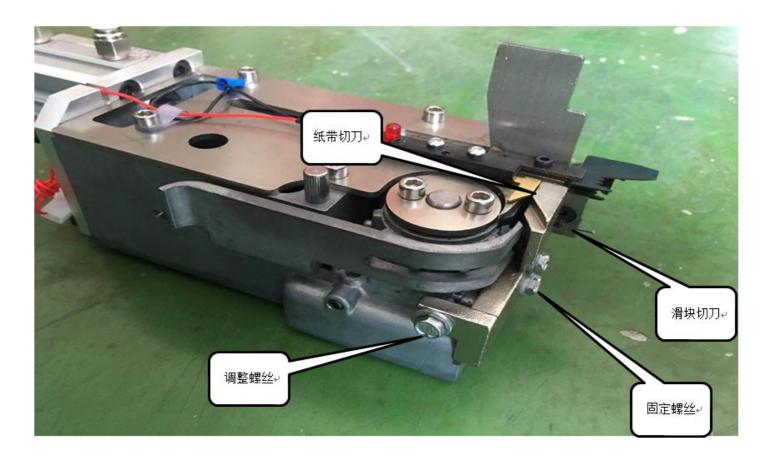


**2,**using a flathead screwdriver to adjust the between the eccentricand the ratchet 0.05-0.1mmgapofpawl, and the locking surface Jimi





**3**, the main slider launched, adjustment screw to adjust the cutter and the slider The gap between the paper tape cutters is 0.038mm, and the main slider can be pushed out smoothly before and after, and then lock the fixing screws.

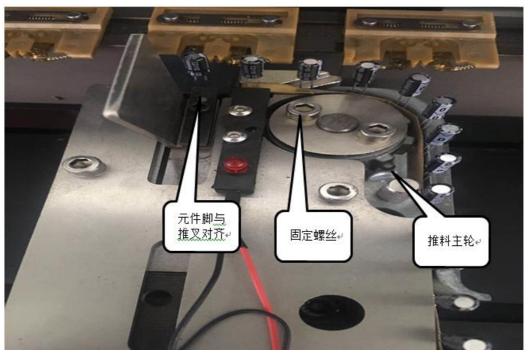


4. Loosen the two fixing screws on the main stopper wheel to make the

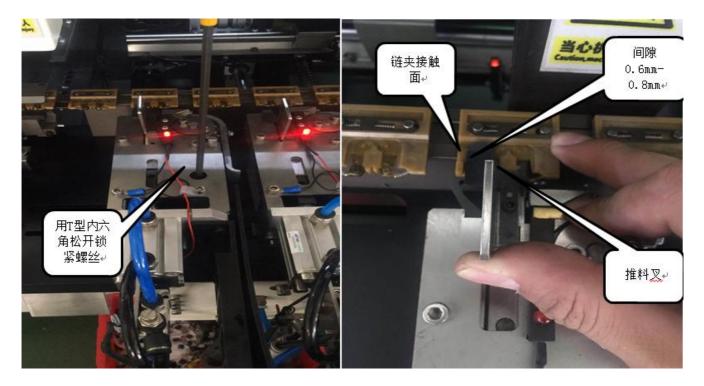
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corresponding material feet and the station forks. Align the type push piece and lock the fixing screw (if it is 5.0mm, the left 5.0 shall prevail).



**5.** First return to zero to confirm that the L-axis chain is at the origin position. Loosen the feeder lock screw to make the contact surface between the push fork and the chain clamp 0.6mm-0.8mm, adjust and lock the feeder.



3. Adjust the cylinder stroke, loosen the cylinder nut, drive the solenoid valve to switch manually, so that the feeder material is just sent

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to the chain clamp, and the component can move up and down manually with a little resistance and no component foot deformation.

# IST-3K-12 The first board X1 interface vertical plug-in machine wiring table

		prug III			, <b>WITI</b>	ing table	
pin	origin			pin			
numbe	a1		line	numb	origina		line
r	name	signal name	code	er	1 name	signal name	code
1	EXGND	GND		35	PULO +	D1 pulse timing	D1M +
		X pulse					
2	+PULO	timing	XM +	36	PULO-	D1-pulse negative	PULO-
		X-pulse				D1 direction of the	
3	D1M-	negative	XM-	37	DIRO +	positive	D1F +
		X direction					
		of the	+DIRO			negativeD1	
4	+DIRO	positive	_	38	XF	direction	D1F-
		negative X-					
5	DIRO-	direction	XF-	39	PULO +	D2 pulse timing	D2M +
		Y pulse					
6	+PULO	timing	YM +	40	PULO-	D2 pulse negative	PULO-
		Y pulse				D2 direction of the	
7	D2M-	timing	YM-	41	DIRO +	positive	D2F +
8	+DIRO	Y direction	+DIRO	42	YF	D2 Direction	D2F1



		of the	_			negative	
		positive				I C. 1:C 1.1	
	D.T.D.O.	Y direction		1.0	0.7.7	Left lift table	
9	DIRO-	negative	YF-	43	OUT 1	cylinder	X101
		X limit					
		signal				Left lift table	
10	ELO+	positive	Χ+	44	OUT 2	belt motor	X102
		X limit					
		signal				right Lifting table	
11	ELO-	negative	Х-	45	OUT 3	cylinder	X103
		X					
		deceleration					
		signal				Right elevator belt	
12	SDO+	positive		46	OUT 4	motor	X104
12	SDO 1	X		10	001 1	motor	XIOI
		deceleration					
1.0	CDO	signal		47	OUT E	Carallagani	VIOE
13	SD0-	negative		47	OUT 5	Send board	X105
1.4	ODGO	Xorigin	WO	40	OT ITTO	PCB positioning	VIOC
14	ORGO	signal	XO	48	OUT 6	cylinder	X106
		Y limit					
		signal					
15	ELO+	positive	Y+	49	OUT 7	Work lamp	X107
		Y limit					
		signal					
16	ELO-	negative	Υ-	50	OUT 8	Shear foot	X108
		Y					
		deceleration					
		signal					
17	SDO+	positive		51	OUT 9	Shear foot	X109
		Y					
		deceleration					
		signal					
18	SDO-	negative		52	OUT 10	PCB limit cylinder	X1010
10	550	Yorigin		02	001 10	TOD TIMIT CYTTHEET	XIOIO
19	ORGO	signal	YO	53	OUT 11	Table belt motor	X1011
		Signai	10				
20	ELO+			54	OUT 12	camera light	X1012
						Left lift table	
						cylinder original	
21	ELO-		1	55	IN 5	position	X1IN5
						Left lift table	
22	SD0+			56	IN 6	cylinder in place	X1IN6
						Right lift table	
						cylinder original	
23	SDO-		1	57	IN 7	position	X1IN7

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						Right lift table	
						cylinder in	
24	ORGO	D1 Origin	D10	58	IN 8	position	X1IN8
24	ONGO	DI OHIGH	DIO	56	IN O	-	ATINO
						Receive the next	
						paragraph and	
						request to send the	
25	ELO+	D2 ELZ		59	IN 9	board	X1IN9
26	ELO-	D2 ELF		60	IN 10	Open	X1IN10
27	SDO+			61	IN 11	Stop	X1IN11
28	SDO-			62	IN 12	Head	X1IN12
29	ORG0	D2 Origin		63	IN 13	Manual cut foot	X1IN13
		Left lift					
30	IN 1	PCB1	X1IN1	64	IN 14	Emergency stop	X1IN14
		Right lift					
31	IN 2	pcb1	X1IN2	65	IN 15		
		Left lift					
32	IN 3	table PCB2	X1IN3	66	EXGND	GND	
		Right lifting					
33	IN 4	platform pcb2	X1IN4	67	E24	24V VCC	
34	EXGND	GND		68	IN 16	safety door	X1IN16

# IST-3K-12 second board X1 interface vertical plug-in machine wiring table

		F G					
pin	origin			pin			
numbe	al		wire	numb	origina		wire
r	name	signal name	code	er	1 name	signal name	code
1	EXGND	GND		35	PULO+	L pulse positive	LM+
		H pulse					
2	PULO+	positive	XM+	36	PULO-	L pulse negative	LM-
		H pulse				L direction	
3	PULO-	negative	XM-	37	DIRO+	positive	LF+
		H direction				L direction	
4	DIRO+	positive	XF+	38	DIRO-	negative	LF-
		negative					
5	DIRO -	directionH	XF-	39	PULO +		
		P pulse					
6	PULO+	positive	YM+	40	PULO-		
		P pulse					
7	PULO-	negative	YM-	41	DIRO+		
		P direction					
8	DIRO+	is positive	YF+	42	DIRO-		



		P direction					
9	DIRO-	negative	YF-	43	OUT 1	No. 1 feeder	X201
		H limit					
		signal					
10	ELO+	positive	χ+	44	OUT	2 No. 2 feeder	X202
		H limit					
		signal					
11	ELO-	negative	Х-	45	OUT	3 No. 3 feeder	X203
12	SDO+			46	OUT 4	No. 4 feeder	X204
13	SDO-			47	OUT 5	No. 5 feeder	X205
		H origin					
14	ORG0	signal	НО	48	OUT 6	No. 6 feeder	X206
		P limit					
		signal					
15	ELO+	positive	Z+	49	OUT	7 No. 7 feeder	X207
		P limit					
		signal					
16	ELO-	negative	Z-	50	OUT 8	8 feeder	X208
17	SDO+			51	OUT 9	No. 9 feeder	X209
18	SDO-			52	OUT 10	No. 10 feeder	X2010
		P Origin					
19	ORG0	signal	ZO	53	OUT 11	Positive cutter	X2011
20	ELO+			54	OUT 12	CTA pusher cylinder	X2012
						Feeder return	
21	ELO-			55	IN 5	detection	X2IN5
						There is material	
22	SDO+			56	IN 6	detection R	X2IN6
						with material	
23	SDO-			57	IN 7	detection L	X2IN7
24	ORG0	L origin	LO	58	IN 8	CTA in place	X2IN8
25	ELO+			59	IN 9	CTA in situ	X2IN9
						Cut the foot in	
26	ELO-			60	IN 10	place	X2IN10
						Scissor foot lower	
27	SDO+			61	IN 11	position	X2IN11
28	SD0-			62	IN 12		
29	ORGO			63	IN 13		
30	IN 1	PCB in place	X2IN1	64	IN 14		
	11/ 1	PCB III place	121111	01	111 11		
		positioning					
31	IN 2	successful	X2IN2	65	IN 15		
	IN 3	Saccessiai	11.2 111.2	66	EXGND	GND	
32		i contract of the contract of	1	1 00	LAUND	LOND	1

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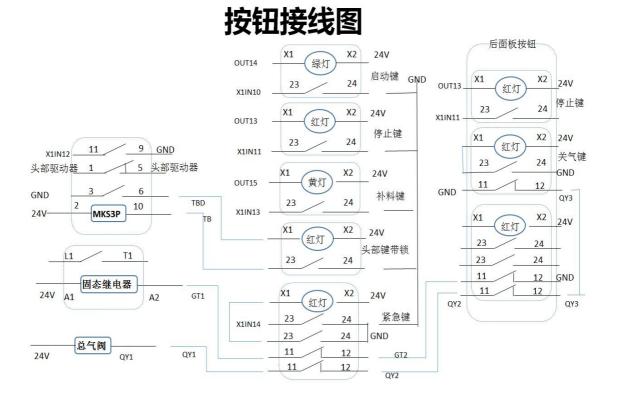


							1
9.4 l	FYGND	CMD		CO	TM 1C		
5 <del>4</del>	LAGND	GND		68	IN 16		
~ ~		01.12					1

## 3K-12 first board J1 interface vertical plug-in machine wiring table

pin	origin			pin	origin		
numbe	al		line	numb	al		line
r	name	signal name	code	er	name	signal name	code
1	IN17	No. 1 feeding station has material sensor	J1IN1	20	GND		
2	IN18	No. 2 feeding station has material sensor	J1IN2	21	OUT13	Red light	J101
3	IN19	No. 3 feeding station has material sensor	J1IN3	22	OUT14	Green light	J102
4	IN20	No. 4 feeding station has material sensor	J1IN4	23	OUT15	Yellow light	J103
5	IN21	5 No. Feeding Station with or without material sensing	J1IN5	24	OUT16	buzzer	J104
6	IN22	No. 6 Feeding Station with/without sensing	J1IN6	25	OUT17	Cylinder before paper cutting	J105
7	IN23	No. 7 Feeding Station with/without sensing	J1IN7	26	OUT18	Plug-in head position indicator light	J106
8	IN24	No. 8 feeding station has material sensor	J1IN8	27	OUT19 Materi al	receiving reminder	Ј107
9	IN25	No. 9 feeding station has material sensor	J1IN9	28	OUT20	Feeder abnormal reminder	J108
10	IN26	No. 10 feeding station has material sensor	J1IN10	29	OUT21		J109
11	IN27	No. 11 feeding station has material sensing		30	OUT22		J1010
12	IN28	No. 12 feeding station has material sensing		31	OUT23		J1011
13	IN29			32	OUT24		J1012
14	IN30			33	OUT25		J1013
15	IN31			34	OUT26	No. 11 feeder	J1014
16	IN32			35	OUT27	No. 12 feeder	J1015
17	3.3V			36			
18	3. 3V			37	GND		
19	GND						





IST-3K-20 vertical plug-in machine wiring table first board X1 interface

		T				T	
pin	origi			pin	origin		
numb	na1		line	numb	al		line
er	name	signal name	code	er	name	signal name	code
						steering D1	
						axis pulse	
1	EXGND	GND		35	PULO+	positive	D1P+
						steering D1	
		platform X pulse				axis pulse	
2	PULO+	positive	XP+	36	PULO-	positive	D1P-
						steering D1	
		platform X pulse				axis direction	
3	PULO-	negative	XP-	37	DIRO+	positive	D1F+
						steering D1	
		platform X				axis direction	
4	DIRO+	direction positive	XF+	38	DIRO-	negative	D1F-
						steering D2	
		platform X				axis pulse	
5	DIRO-	direction negative	XF-	39	PULO+	positive	D2P+
		platform Y pulse				steering D2	
6	PULO+	positive	YP+	40	PULO-	axis pulse	D2P-



	1	1	1			Т	<del>1                                    </del>
						positive	
						steering D2	
		platform Y pulse				axis direction	
7	PUL0-	positive	YP-	41	DIRO+	positive	D2F+
						steering D2	
		platform Y				axis direction	
8	DIRO+	direction positive	YF+	42	DIRO-	negative	D2F-
		platform Y				CTA pusher	
9	DIRO-	direction negative	YF-	43	OUT 1	cylinder	X101
		platform X limit					
10	ELO+	Positive signal	XEL+	44	OUT 2	Shearing foot	X102
		Platform X limit					
11	ELO-	signal negative	XEL-	45	OUT 3	Shearing foot	X103
12	SDO+			46	OUT 4	Buzzer	X104
13	SDO-			47	OUT 5		
		platform X origin					
14	ORGO	signal	XORG	48	OUT 6		
		platform Y limit					
15	ELO+	signal positive	YEL+	49	OUT 7		
		Platform Y limit				Camera switch	
16	ELO-	signal negative	YEL-	50	OUT 8	light	X108
17	SDO+			51	OUT 9	Red light	X109
18	SDO-			52	OUT 10	yellow light	X1010
		platform Y origin					
19	ORGO	signal	YORG	53	OUT 11	green light	X1011
		steering D1 axis					
		limit signal					
20	ELO+	positive	D1EL+	54	OUT 12	work desk lamp	X1012
		steering D1 axis				1	
		limit signal					
21	ELO-	negative	D1EL-	55	IN 5		
						Scissor foot	
						cylinder in	
22	SDO+			56	IN 6	place	X1IN6
23	SD0-			57	IN 7	prace	111110
			Rotati				
		D1 axis origin	onD10R			Plug-in axis	
24	ORGO	signal	G	58	IN 8	return	X1IN8
	ELO+	Garage					
	Rotat	D2 axis limit					
25	ion	signal positive	D2EL+	59	IN 9		
	ELO-	210uat boninio	Dabb.		111, 0		
	Direc	to D2 axis limit					
26	tion	signal negative	D2EL-	60	IN 10	Start	X1IN10
							411110

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						(stop)	
						Emergency stop	
						(emergency	
28	SD0-			62	IN 12	stop)	X1IN12
						CTA pusher	
		steering D2 axis				cylinder in	
29	ORG0	origin signal	D20RG	63	IN 13	position	X1IN13
						CTA pusher	
						cylinder home	
30	IN 1	picking left	X1IN1	64	IN 14	position	X1IN14
						Manual cut foot	
31	IN 2	picking right	X1IN2	65	IN 15	signal	X1IN15
		Cut foot seat low					
32	IN 3	position	X1IN3	66	EXGND	GND	
33	IN 4			67	E24	24V VCC	
34	EXGND	GND		68	IN 16	safety door	X1IN16

## IST-3K-20 vertical plug-in machine wiring table second board X1 interface

nin	oniai			pin			
pin	origi			-			
numb	na1		wire	numbe	origina		wire
er	name	signal name	code	r	1 name	signal name	code
						chain L-axis pulse	
01	EXGND	GND		35	PULO+	positive	LP+
		plug-in H-axis				chain L-axis pulse	
02	PULO+	pulse positive	HP+	36	PULO-	negative	LP-
		-plug-in H-axis				chain L-axis	
03	PULO	pulse negative	HP-	37	DIRO+	direction positive	LF+
		plug-in H-axis					
		direction				chain L-axis	
04	DIRO+	Positive	HF+	38	DIRO-	direction negative	LF-
		-plug-in H-axis					
		direction					
05	DIRO	negative	HF-	39	PULO+		
		P-axis pulse					
06	PULO+	positive	PP+	40	PULO-		
		Pressing material					
07	PULO-	P axis pulse	PP-	41	DIRO+		



		positive					
		Pressing material					
		P axis direction					
80	DIRO+	is positive	PF+	42	DIRO-		
		Pressing material					
		P-axis direction					
09	DIRO-	negative	PF-	43	OUT 1	Workbench belt	X201
		plug-in H-axis					
		limit signal				Left lift table	
10	ELO+	positive	HEL+	44	OUT 2	belt	X202
		-plug-in H-axis					
		limit signal					
11	ELO	negative	HEL-	45	OUT 3	Right elevator belt	X203
						Left lift table	
12	SDO+			46	OUT 4	cylinder	X204
						Right lift table	
13	SDO-			47	OUT 5	cylinder	X205
		plug-in H-axis					
14	ORGO	origin signal	HORG	48	OUT 6	PCB positioning 1	X206
		Pressing material					
		P-axis limit			OUT 7	the previous stage	
15	ELO+	signal positive	PEL+	49	То	requesting board	X207
		Pressing material					
		P Axis limit					
16	ELO-	signal negative	PEL-	50	OUT 8	PCB positioning 2	X208
17	SDO+			51	OUT 9		
18	SD0-			52	OUT 10		
		P-axis origin					
		signal of					
19	ORGO	pressing material	PORG	53	OUT 11		
		chain L axis					
		limit signal					
20	ELO+	positive	LEL+	54	OUT 12		
		chain L axis					
		limit signal					
21	ELO-	negative	LEL-	55	IN 5	PCB in place	X2IN5
22	SD0+			56	IN 6	PCB positioning	X2IN6
						Left elevating	
						table left section	
23	SDO-			57	IN 7	pcb	X2IN7
						Right elevating	
		Chain L axis				table left section	
24	ORGO	origin signal	LORG	58	IN 8	pcb	X2IN8
						Left lift platform,	
25	ELO+			59	IN 9	right section pcb	X2IN9

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					Right lifting	
					platform right	
26	ELO-		60	IN 10	section pcb	X2IN10
					Left lift table	
27	SDO+		61	IN 11	original position	X2IN11
					Left lift table in	
28	SDO-		62	IN 12	place	X2IN12
					Right lift table	
29	ORG0		63	IN 13	original position	X2IN13
					Right elevator in	X2
30	IN 1		64	IN 14	place	IN14
					Receive the board	
					sending demand of	
31	IN 2		65	IN 15	the next stage	X2IN15
32	IN 3		66	EXGND	GND	
33	IN 4		67	E24	24V VCC	
34	EXGND	GND	68	IN 16		

## IST-3K-20 vertical plug-in machine wiring table first board J1 interface

11150	DOGIC	- 3	oci i ac.	•			
pin	origina	signal	line	pin	original		1ine
number	1 name	name	code	number	name	signal name	code
		material					
1	IN17	station 1	J1IN1	20	GND		
		material				material	
2	IN18	station 2	J1IN2	21	OUT13	station 1	J101
		material				material	
3	IN19	station 3	J1IN3	22	OUT14	station 2	J102
		material				material	
4	IN20	station 4	J1IN4	23	OUT15	station 3	J103
		material				material	
5	IN21	station 5	J1IN5	24	OUT16	station 4	J104
		Material				material	
6	IN22	station 6	J1IN6	25	OUT17	station 5	J105
		material				material	
7	IN23	station 7	J1IN7	26	OUT18	station 6	J106
		material				material	
8	IN24	station 8	J1IN8	27	OUT19	station 7	J107
		material				material	
9	IN25	station 9	J1IN9	28	OUT20	station 8	J108
		material				material	
10	IN26	station	J1IN10	29	OUT21	station 9	J109

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		10					
		material					
		station				material	
11	IN27	11	J1IN11	30	OUT22	station 10	J1010
		material					
		station				material	
12	IN28	12	J1IN12	31	OUT23	station 11	J1011
		material					
		station				material	
13	IN29	13	J1IN13	32	OUT24	station 12	J1012
		material					
		station				material	
14	IN30	14	J1IN14	33	OUT25	station 13	J1013
		material					
		station				material	
15	IN31	15	J1IN15	34	OUT26	station 14	J1014
						Material	
16	IN32			35	OUT27	station 15	J1015
17	3. 3V			36			
18	3. 3V			37	GND		
19	GND			38			

## IST-3K-20 vertical plug-in machine wiring table second board J1 interface

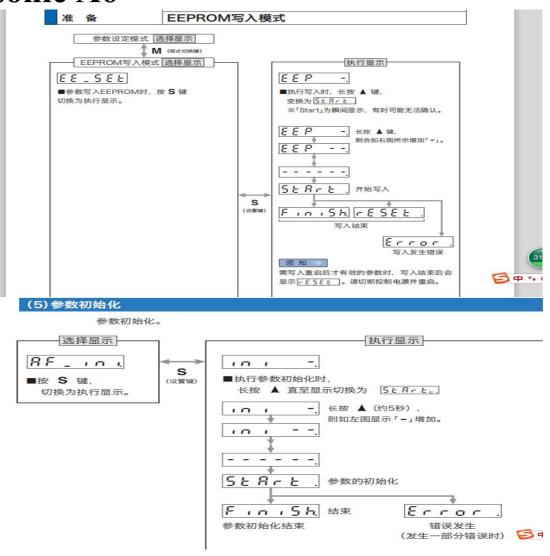
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pin	origina		1ine	pin	original		line
number	1 name	signal name	code	number	name	signal name	code
		material					
1	IN17	station 16	J2IN1	20	GND		
		material				material	
2	IN18	station 17	J2IN2	21	OUT13	station 16	J201
		material				material	
3	IN19	station 18	J2IN3	22	OUT14	station 17	J202
		material				material	
4	IN20	station 19	J2IN4	23	OUT15	station 18	J203
		material				material	
5	IN21	station 20	J2IN5	24	OUT16	station 19	J204
						Material	
6	IN22			25	OUT17	station 20	J205
7	IN23			26	OUT18		
8	IN24			27	OUT19		
9	IN25			28	OUT20		
10	IN26			29	OUT21		
11	IN27			30	OUT22		

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						Paper	
12	IN28			31	OUT23	cutting	J2011
		Distributin				Scooping	
13	IN29	g head left	J2IN13	32	OUT24	material	J2012
		Distributin					
		g head					
14	IN30	right	J2IN14	33	OUT25		
15	IN31			34	OUT26		
16	IN32	cut paper	J2IN16	35	OUT27		
17	3. 3V			36			
18	3. 3V			37	GND		
19	GND			38			

### Servo motor and adjustment parameters steps Panasonic A6



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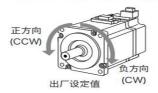


 Pr0.00\*
 旋转方向设定
 设定范围
 单位
 标准出厂设定
 相关模式

 0~1
 1
 P S T F

设定指令的方向和电机旋转方向的关系。

0:正方向指令时, 电机旋转方向为CW方向(从轴侧看电机为顺时针方向) 1:正方向指令时, 电机旋转方向为CCW方向(从轴侧看电机为逆时针方向)



200 201 2000		设定范围	单位	标准出厂设定	相关模式
Pr0.03	实时自动调整机械刚性设定	0~31		A、B、C型:13 D~H型:11	PSTF

设定实时自动调整有效时的响应性。

低 ←机械刚性→ 高 低 ←伺服増益→ 高 0・1---- 11-13 - - - - - - - - - 30・31 低 ←响应性→ 高

注意……

- ·设定值变高,则速度响应性变高,伺服刚性也提高,但变得容易产生振动。请在确认动作的 同时,将设定值由低到高进行变更。
- · 因为控制增益是在停止时进行更新,所以增益极低或连续输入同一方向指令等时,如果电机不停止,变更Pr0.03 [ 实时自动调整机械刚性设定 ] 会出现设定值无法生效的情况。此时,当电机停止后可能会由于刚性设定的生效,导致出现异音或震动产生。请在刚性变化时,暂时让电机停止,确定刚性设定已经确实生效后,再进行下一动作。

标准出/设定:[]

D=0.0C+4	北久的冲旋柱大力汽中	设定范围	单位	标准出厂设定	相关	模式
Pr0.06*	指令脉冲旋转方向设定	0~1		0	P F	
D=0.07+	化全脑油硷 ) 横式边中	设定范围	单位	标准出厂设定	相关	模式
Pr0.07*	指令脉冲输入模式设定	0~3	_	1	Р	F

#### INVITAL IN THURS A REAL PLANTS IN THURSDAY

Pr0.06 指令脉冲 旋转方向设定 设定值	PrO.07 (指令脉冲 (输入模式设定) 设定值	指令脉冲形态	信号名称	正方向指令	负方向指令
	O 或 2	90°位相差 2相脉冲 (A相+B相)	PULS SIGN	A相 ti ti B相 Fi ti	B相比A相慢90°
[0]	[1]	正方向脉冲列 + 负方向脉冲列	PULS SIGN	t3 t2 t2	tz tz
	3	脉冲列 + 符号	PULS SIGN	t4 t5 "H" t6 t6	t4 t5 t6 t6

	,	,	
参数	出厂	实际	- 6
PRO. 00	1	按实际需要	
PRO. 03	13	按实际需要	
PRO. 06	0	0	
PRO. 07	1	3	