Automatic paper feed cutting machine manual

1.Connect your cutting plotter

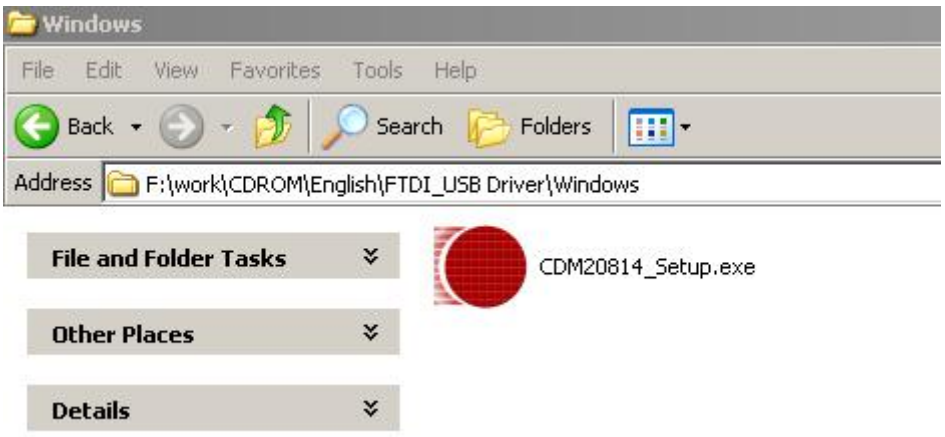
1.1Connect the AC cable

Insert power supply cable plug into the AC connector ,and then push the power button. Then the machine is power on.

1.2Connect the USB cable

If you want to use the USB cable, you have to install the USB driver.

① Find the following files from the CD, Double-click CDM20814_Setup.exe

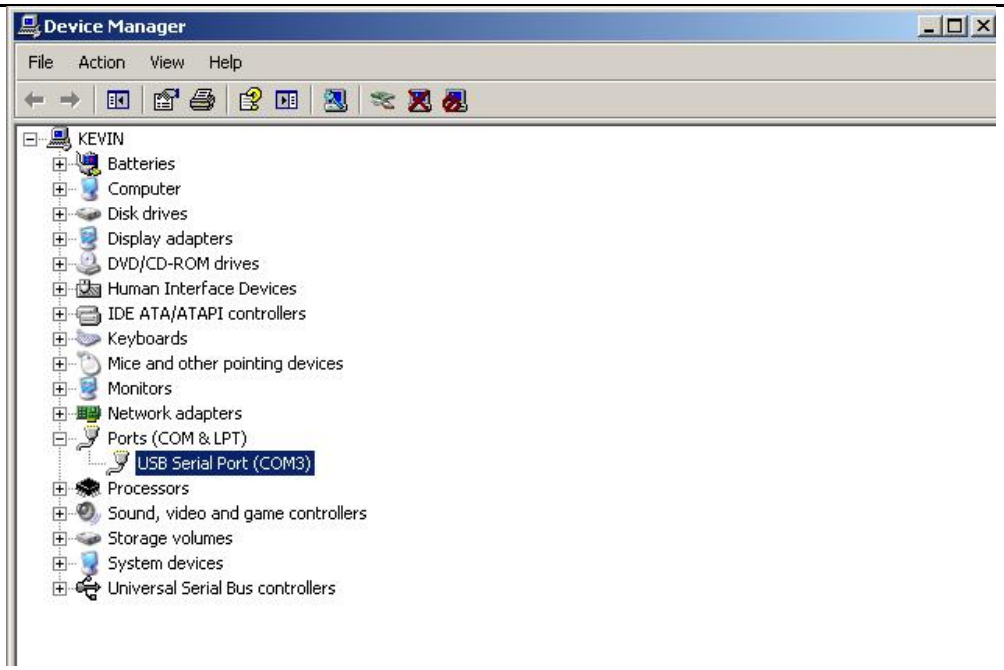


② connect USB cable with computer， it will display ‘ Found New Hardware’ as follow window.

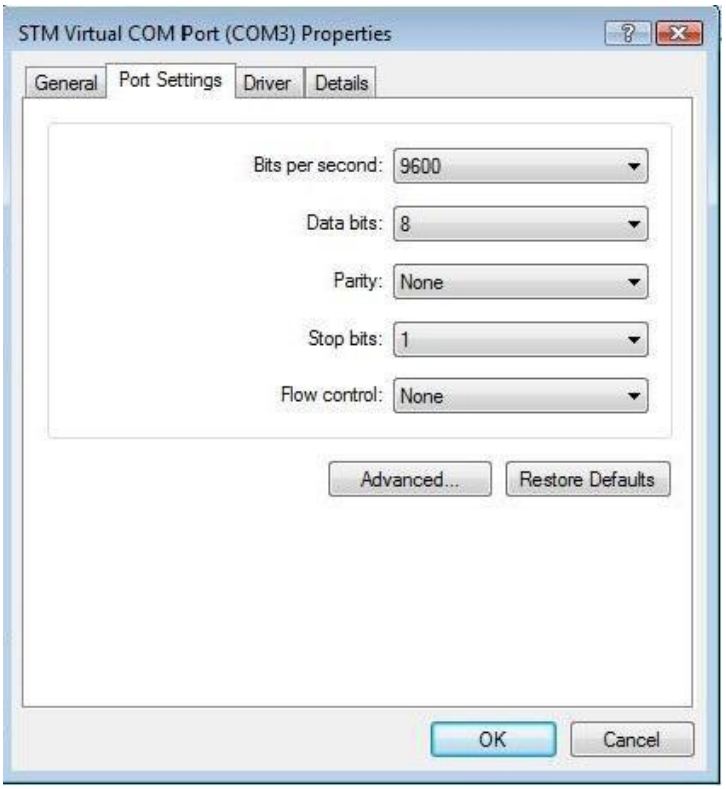
③ Click "**NEXT**"

④ Click "**Finish**"

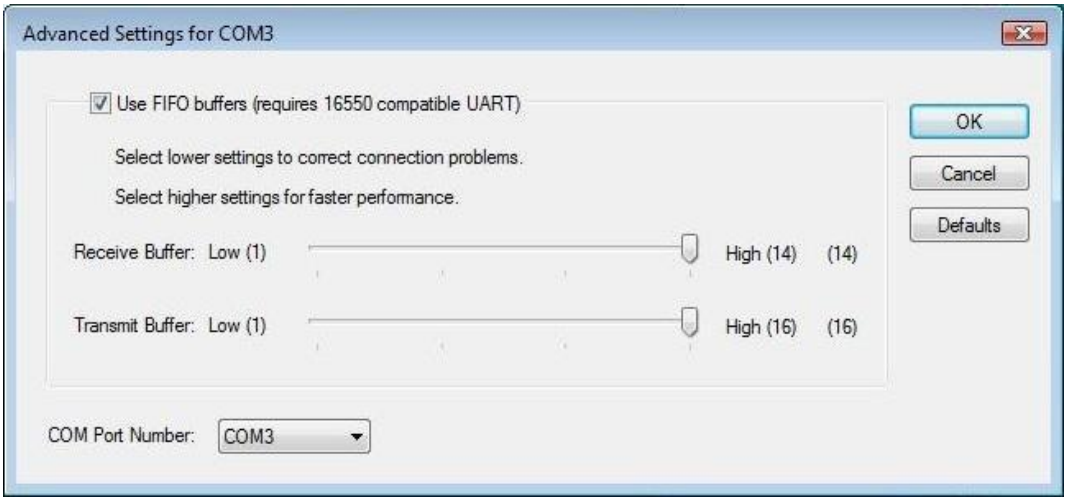
⑤ If driver was installed successfully，You can find a new port in **Device Manager**, shown as below



if you want to modify the default port No. of USB driver, just right-click port（COM3）as shown above, and select “**Properties**” in context menu.



Select "**Advanced…**",



Select the Port Number. that you want to modify, then press "**OK**"

1.3Connect the RS-232 cable (optional)

When you want to connect the RS-232C cable, you must observe the following notes

NOTE: (1) When connecting the cables, turn off first the power to the device and that to the host computer which the power cable is to be connected.
(2) Do not plug in or unplug any cable during data transferring.

2. Blade installation

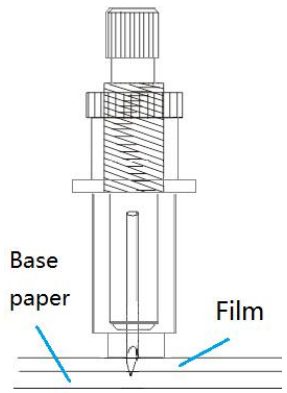
Figure 2-1 and 2-2 are the drawings of the blade holder

Figure 2-1

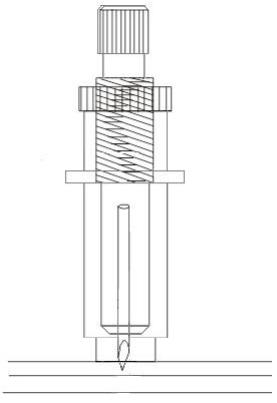
Figure 2-2

2.1 How to install a blade

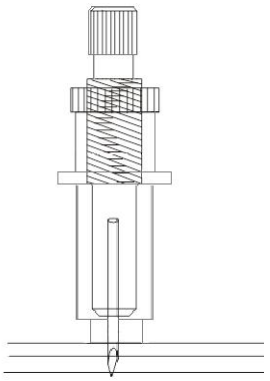
① Remove the blade sheath by rotating it.
② insert the blade into the hole of the blade handle.
③ Adjust the blade tip to suitable length by rotating the adjusting knob and blade sheath clockwise or count-clockwise.



OK



The length of blade is not enough



The length of blade is too long

NOTE: The suitable length means the blade's length is adjusted 0.1mm more than film's thickness and it can completely cut through the film layer yet avoid penetrating the base paper.

2.2 Blade holder installation

Install the blade holder into the tool holder of the carriage, press the brim of the blade holder against the tool holder.rotate the knob of the tool holder clockwise and surely fix it.

NOTE: Fix the tool holder firmly. If not, accurate and high-quality cutting will not be achieved.

3 Loading a sheet

Either a piece of sheet or a roll of sheet can be loaded on the plotter.

Figure 3-3

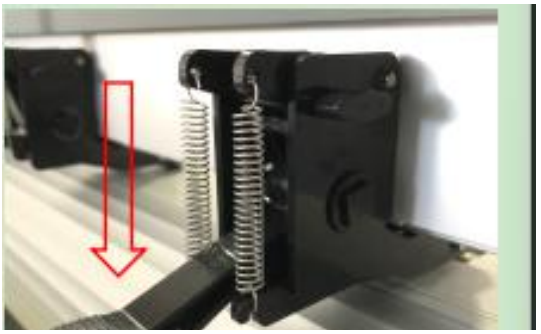


Figure 3-4

(1) Lift the lever to rise the pinch rollers. (see Figure 3-3)

(2) Load the sheet and slide to under the pinch rollers form either the front side or backside. The alignment ruler on the platen will help you to adjust the sheet precisely.

(3) Slide the pinch rollers manually to the proper position. Be sure the pinch rollers must be positioned above the steel axes. The red mark on the top trail will remind you where the steel axes are.

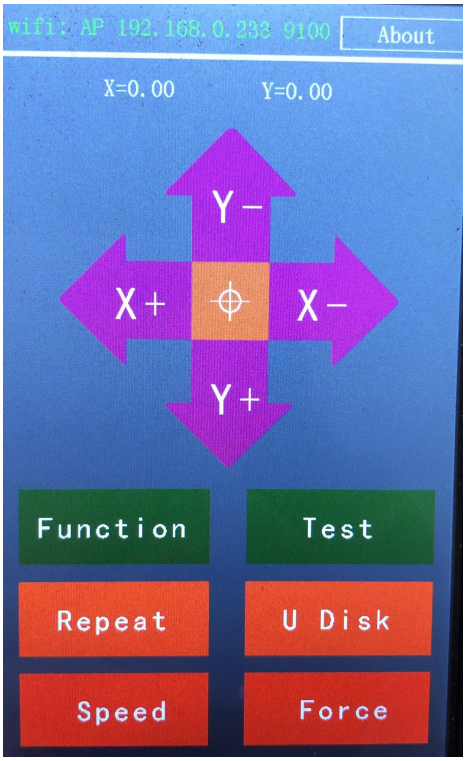
(4) Press the lever to lower down the pinch rollers.(see Figure 3-4)

(5) Double pressure setting button can set the pinch roller fixed the thickness material well

NOTE: If you want to cutting a sheet without a reversed adhesive paper (like a pasteboard),You should use a sticker sheet under it.

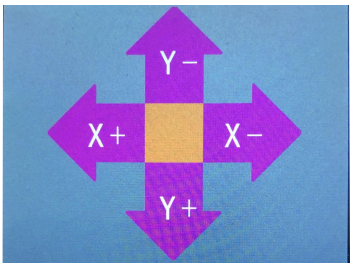
CAUTION: Move the pinch roller by applying force at the rear portion of the pinch roller support. Do not move it by holding its front rubber roller.

When you turn on the machine, the screen will show the main menu.



4 Keyboards Introduction

Direction button:



Menu button: FUNCTION

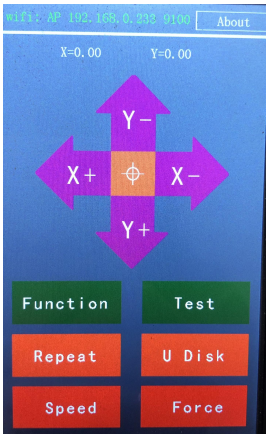
Test button: TEST

Repeat button: REPEAT

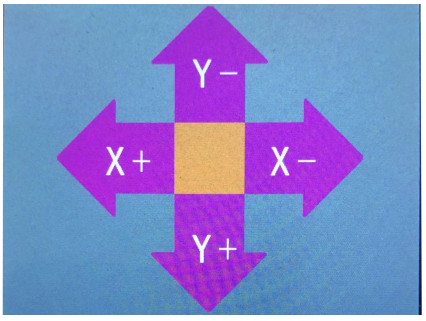
U disk : U DISK

Pressure and Speed : SPEED PRESSURE

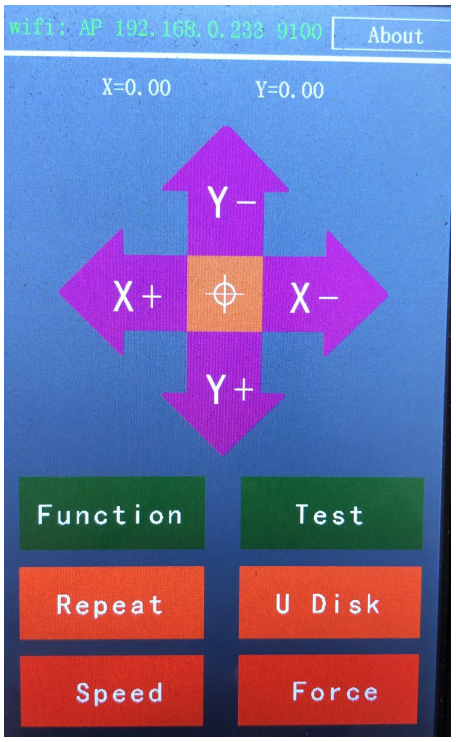
Machine boot page

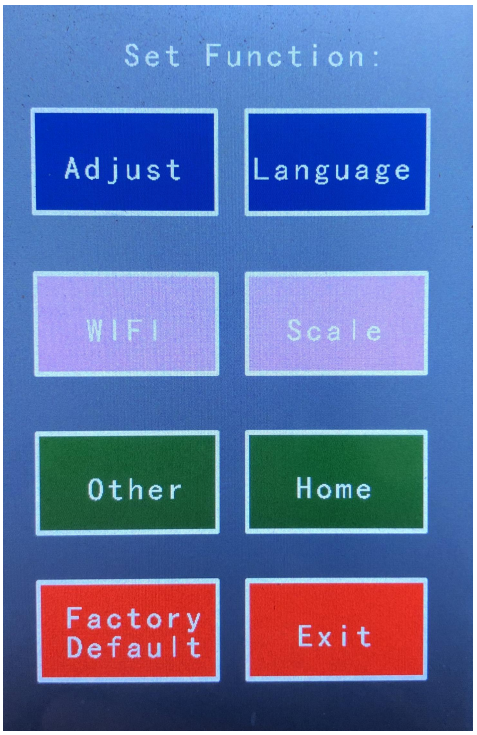


Arrow keys



Function

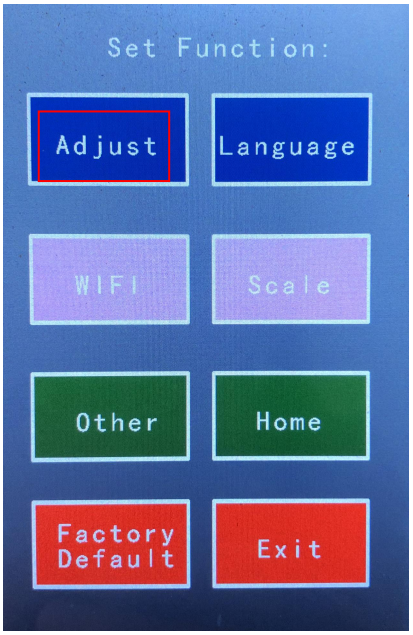


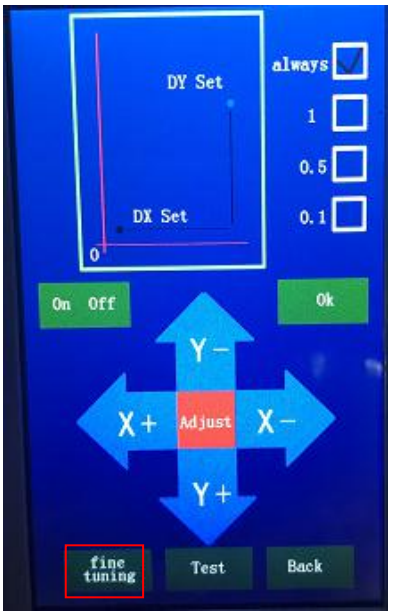


Function　　Press the function to enter the right menu

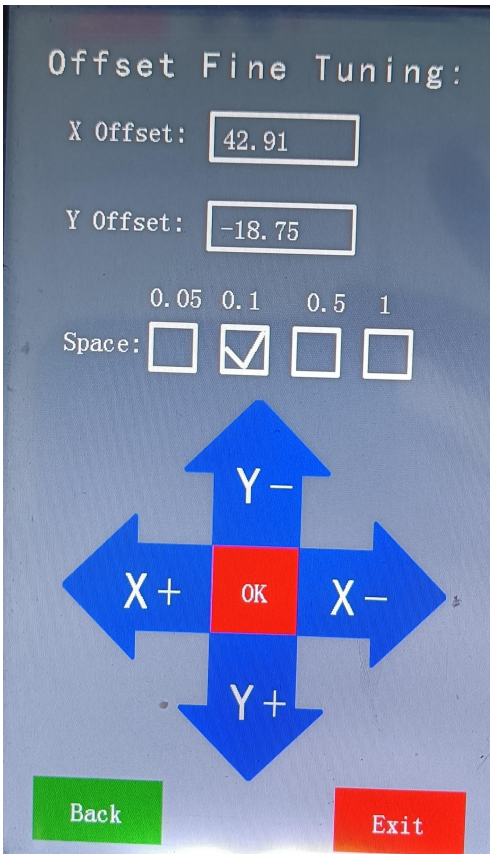
4.1 Adjust

When the sleeve cutting graphics are not cut on time, the offset value parameter needs to be adjusted.
Method: Press **Adjust** to enter the display page on the right.

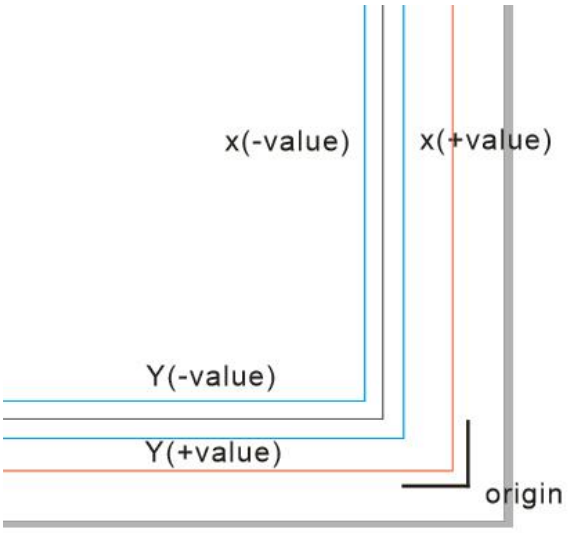




Then click **fine-tuning** to enter the offset value fine-tuning page



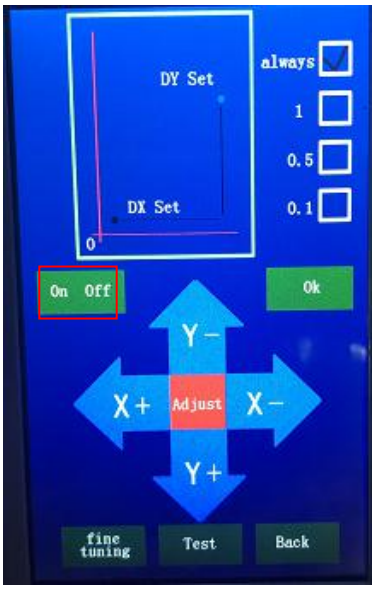
Left and right deflection, adjust the X-axis offset;
Offset up and down, adjust the Y-axis offset;
Step: Modify the parameter size value each time.

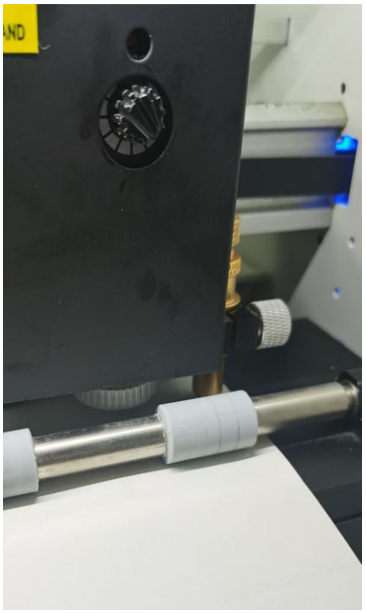


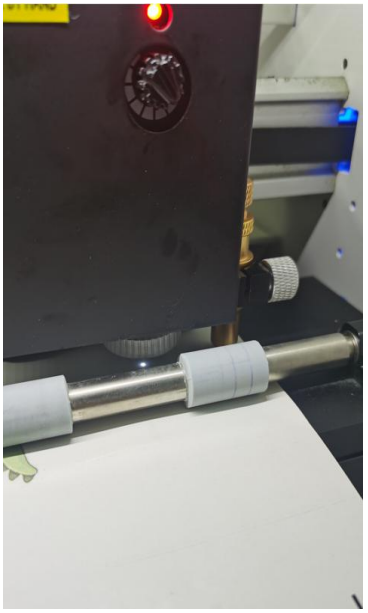
The black line is the correct position, the blue line is the offset position, and the distance between the black line and the blue line is measured, which is the value that needs to be set. If the actual offset is to the left, the corresponding value of X needs to be subtracted. If the offset is to the right The corresponding value of X needs to be added. If the offset is above, the corresponding value of Y needs to be subtracted. If the offset is below, the corresponding value of Y needs to be added. After changing the parameters, you need to press "OK" to save. Then cut test again.

4.2 Switch

Turn on the light of the scan head to test whether the scan head is normal.
Click the switch to turn on the scanning headlight.



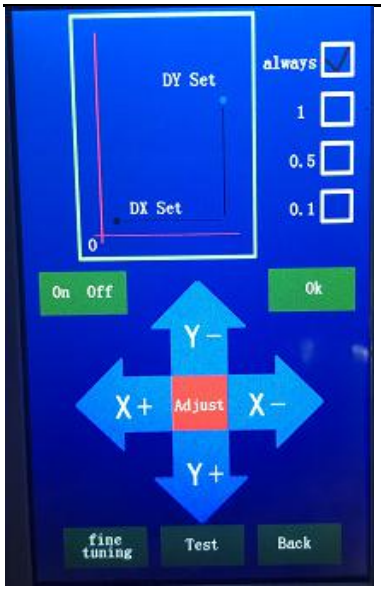


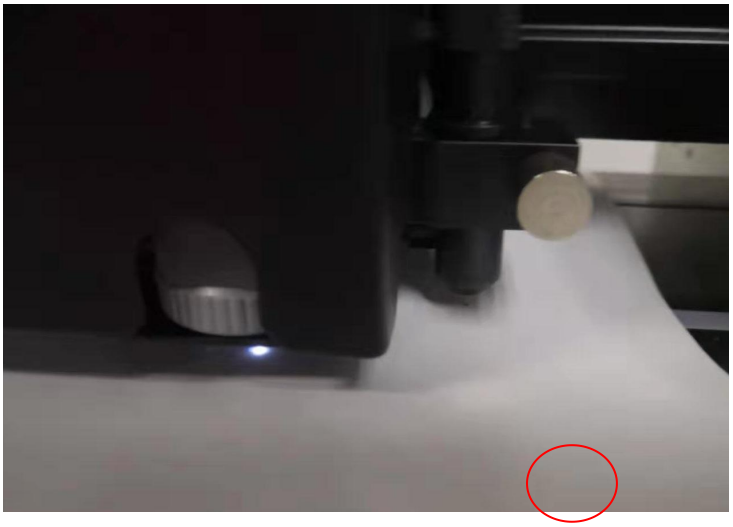


The white light is on the blank material, the red light is on, the white light is on the black position, and the red light is off.
If there is a situation where the scan cannot be performed, you need to adjust the angle of this knob.

4.3

The cutting is not allowed, or the parameters are reset to zero. After point calibration, it will change to DX set DY set as shown in the figure below.





Change the knife holder to a drawing pen and press down on the drawing pen to leave a small dot on the material. Then click the calibration page, after it becomes DX set DY set, the white light of the scanning head will be on. Then press the arrow keys to move the sports car to make the white light coincide with the black origin, and then press the OK key on the screen to save the parameters.
(General parameter values are in DX 31.5; DY -20 is not more than 1 up and down)

4.4 Test

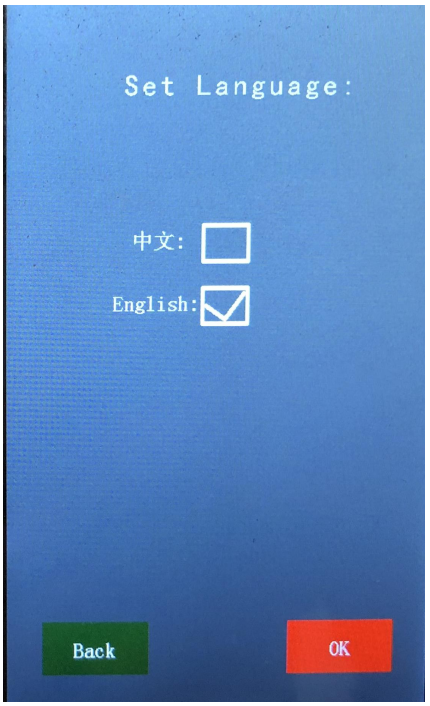
Place the "L" shaped mark point, press test, and the machine will automatically scan the test.

4.5 Language setting

Click LANGUAGE **goes to interface**

Click “ Chinese ” or “English” for your better understanding.

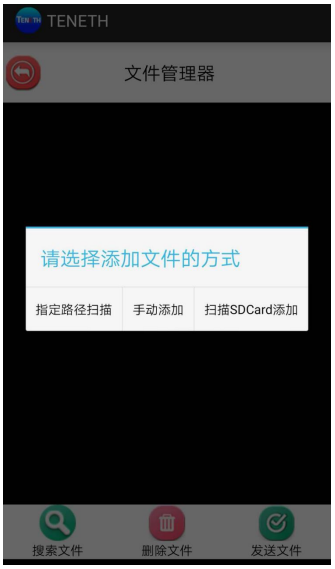
Click “OK” to save the data.



4.6 Wifi (Optional) Additional purchase features

Click on the STA mode on the machine, and there will be a pop-up of available wifi nearby, select the wifi you want to connect to, click "connect", and enter the password.

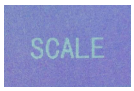
Mobile app connection method: open the mobile app, click the wifi button, the name of the current nearby WiFi will be displayed, find the WiFi name kaola007 displayed on the machine, connect (no password); then click on the "network settings" on the mobile app, enter, enter The IP address displayed on the machine, that is, the port number, select "AP" for the working model, and click "Keep Settings".



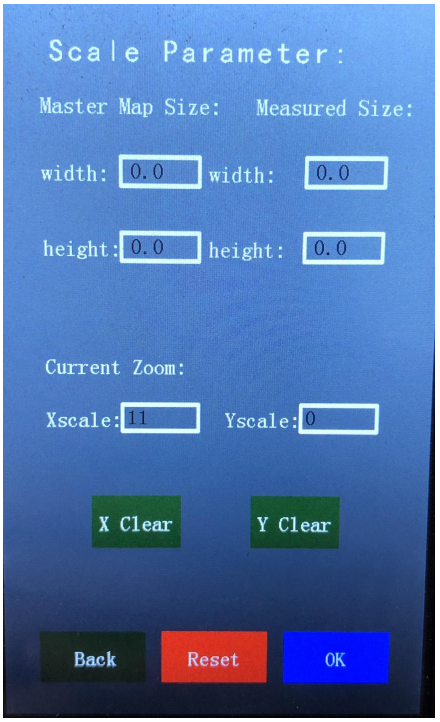
4.7 Scale (Problem between printed and cutting pattern size)

If the printed pattern size is not the same as the size what we made inside software,

then we need to adjust the value. And we need to use the tool : scale calculator .

Click 

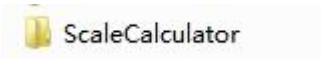
goes to interface



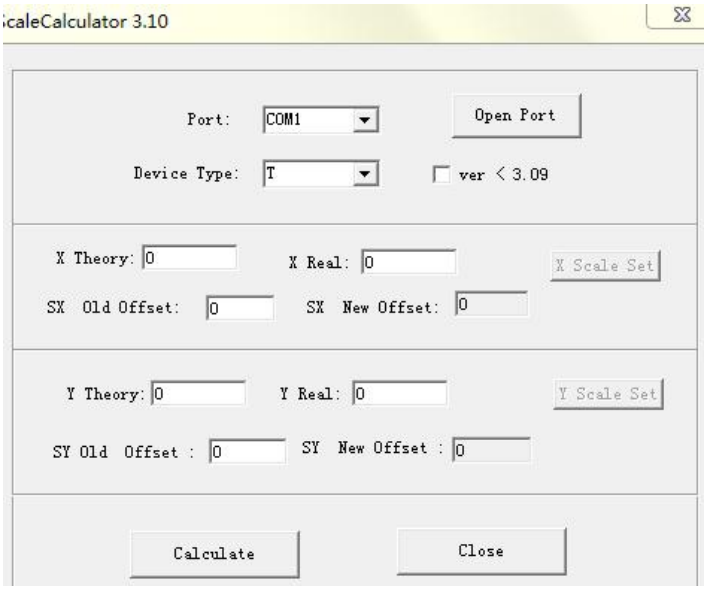
It needs us to cut a 400*400mm pattern. And then measure the actual cutting size. Use the scale calculator .

Put the master map size value (software design size) and also the measure size (actual cutting size)

Then the calculator will give the current zoom for your to change it.

Or use 

(inside CD)

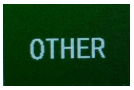


It needs us to cut a 400*400mm pattern. And then measure the actual cutting size. Use the scale calculator . Put X theory / Y theory value 400mm, X real / Y real is real cut value. Device type: T. Click Calculate.

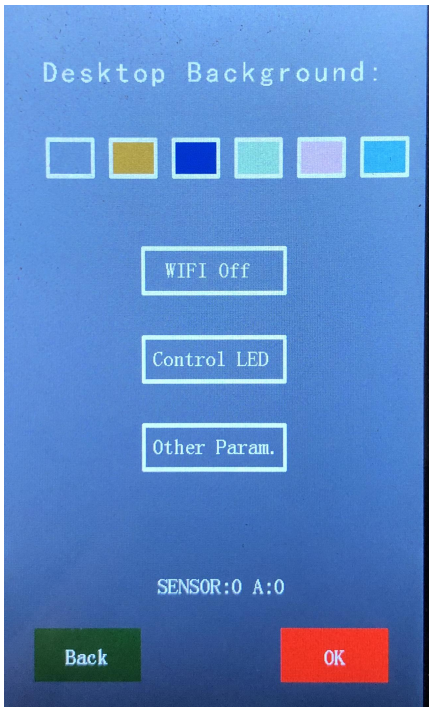
After we got the new offset value of Scale X, Y. Use direction button to change it.

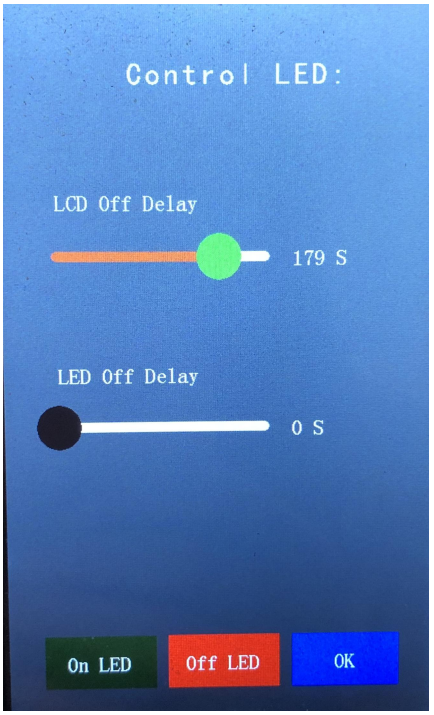
NOTE: The value of the axis scale depends on the actual situation.

4.8 Other (LCD lights adjustment)

Click 

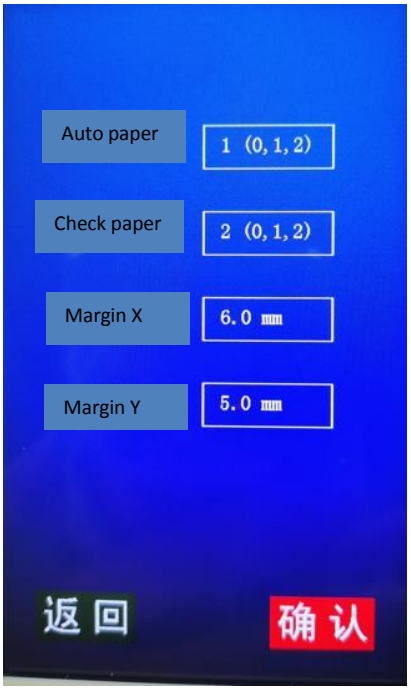
goes to interface desktop background.

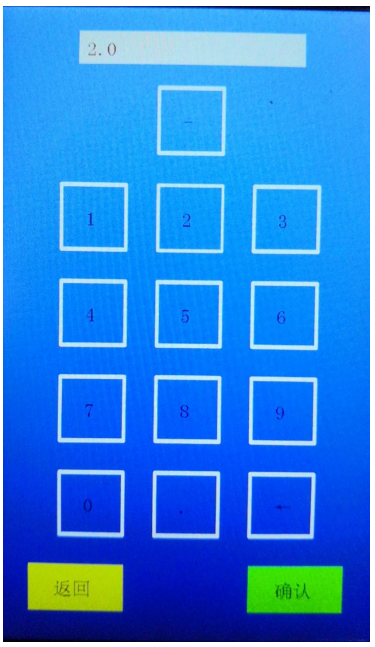


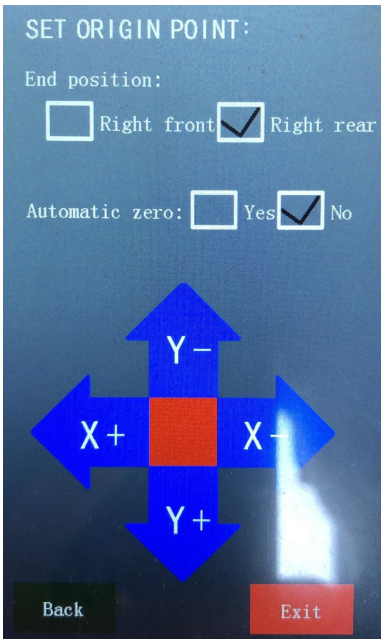


If your machine with LED lights, When click “Control LED”, it goes to the interface. You can set the LED lights on time manually.

NOTE: No matter background light or control LED, you can adjust it according to your preference.







Other parameters: The default paper feeding method is 1, and the default paper measuring method is 2. (Cannot be changed)

Margin X: The left and right position parameters of the scanned white light to the marked point,

Margin Y: The actual parameters need to be adjusted during continuous cutting.

Measuring paper: the paper will come in automatically from the tray without cutting, and then automatically falls into the front tray. This function is generally used to detect the machine whether the paper can be automatically fed continuously and whether there is a paper jam.

SENSOR 3:1 A 0:

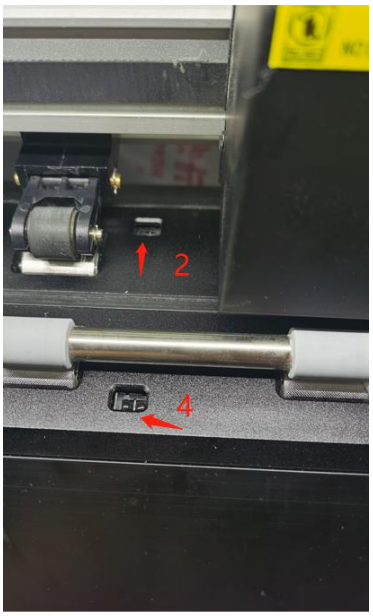
3: It is 3 sensors. 1: The code name of the sensor

There is one on the tray, covered separately, showing 1.

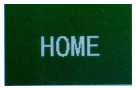
There is one next to the pinch roller, which is covered separately, showing 2.

There is one in front of the pinch roller, which is covered separately, showing 4.

Simultaneous masking is the addition of values. This function is often used to detect whether the sensor is normal.



4.9 Home

Click 

goes to interface

This function is used for the blade end position after cutting finished.

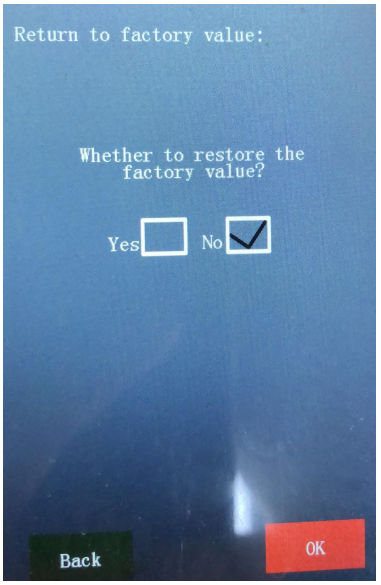
You can choose “Right front”,it means the blade will stop on the upper right corner of the cutting pattern.And the same time, the material will move out a little.

When you choose “Right Rear” , it means the blade will stops on the bottom right corner of the cutting pattern. And at the same time, the material will move inside a little.

When you turn on the machine, the machine carriage will back to the original place. You can

click “Yes” or “No” in “Automatic zero” to determine if you need it go back or no.

4.10 Factory Default



Click 

goes to interface

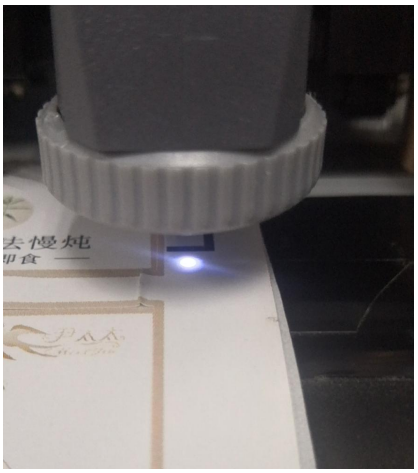
“Factory default” means the factory data before the machine is packaged. The technician sets machine all data in good condition. It may changes some machine data for your better using and personal design.

You can select if you need to restore the factory value or not according to your using.

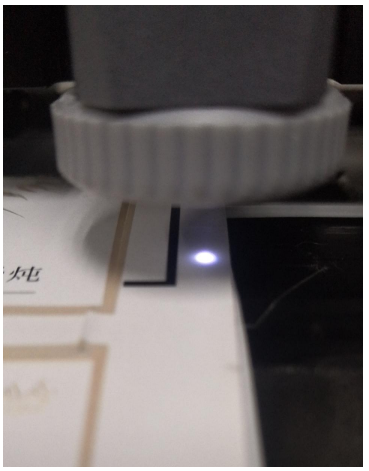
4.11 Exit

When you no need to go to secondary menu, you can click 

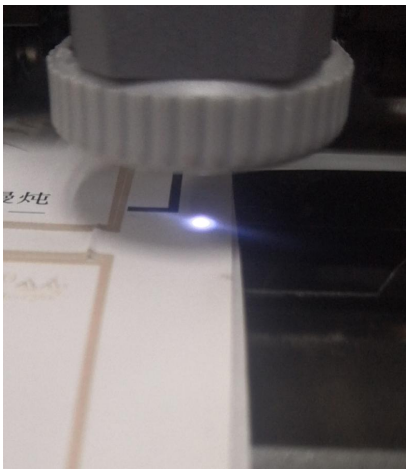
to go back to first menu screen.



No need to change parameters



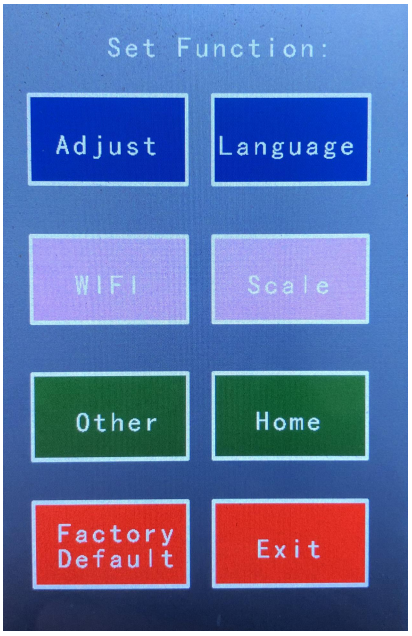
parameters need to be changed
X margin parameter plus +3
Y margin parameter then -5

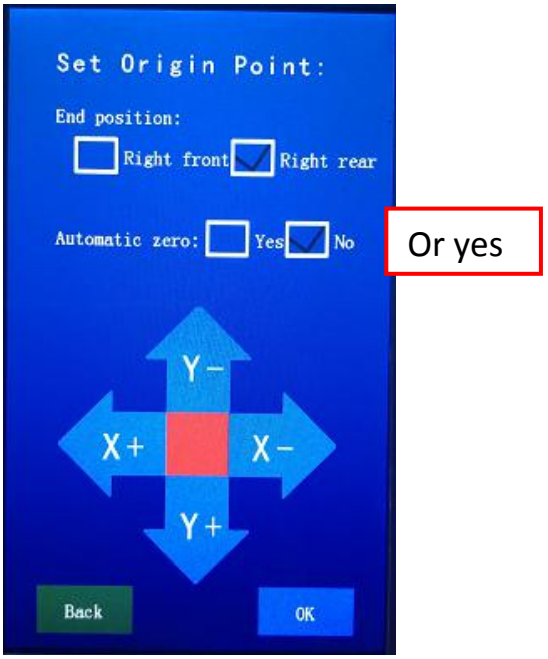


parameters need to be changed
X margin parameter plus +3

4.12 origin

End position: After the file is cut, the position where the sports car stays, which can be modified.
Auto-zero: When the machine starts, the sports car will automatically return to the origin, which can be modified.

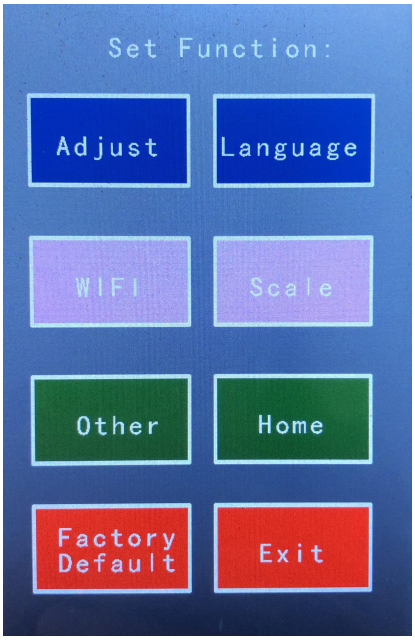




Or yes

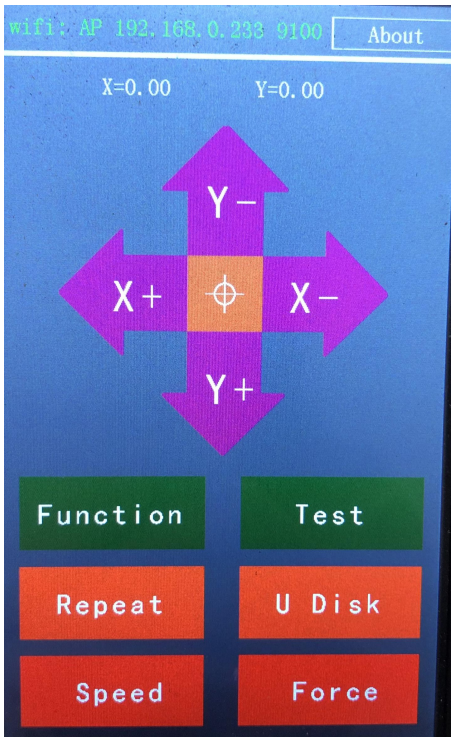
4.13 Factory default

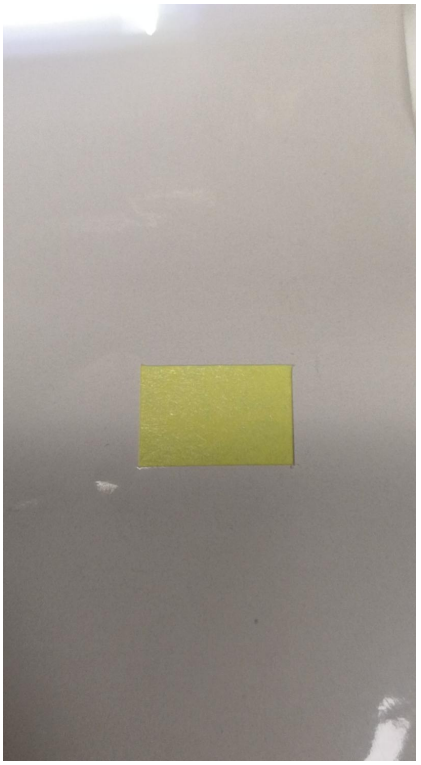
Optimization: The optimization value can be adjusted. When the optimization value is 0, the speed is the fastest, and when the optimization value is 3, the speed is the slowest. The recommended value is 1.



4.14 Test

Press the test button, and the machine will cut a small box to test whether the length of the knife tip is suitable.

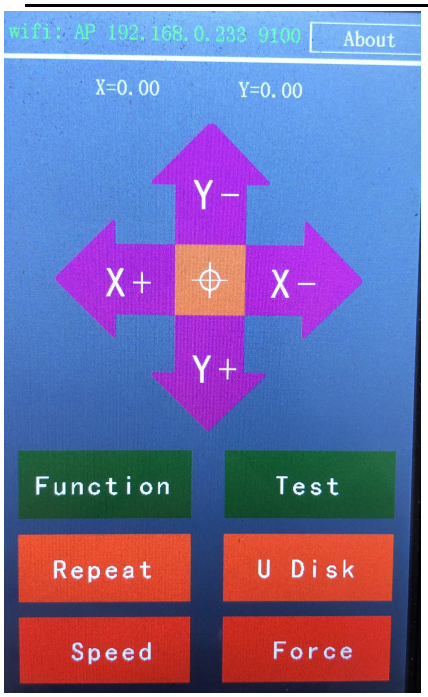


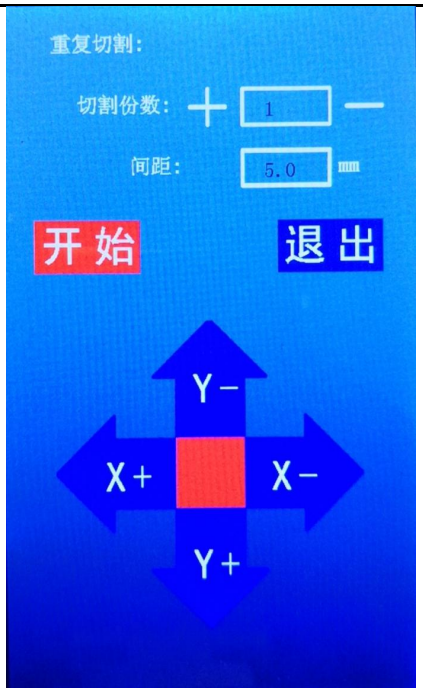


4.15 Repeat

Press the repeat button, the machine will repeat the file sent by the computer last time, and the U disk file will not repeat.

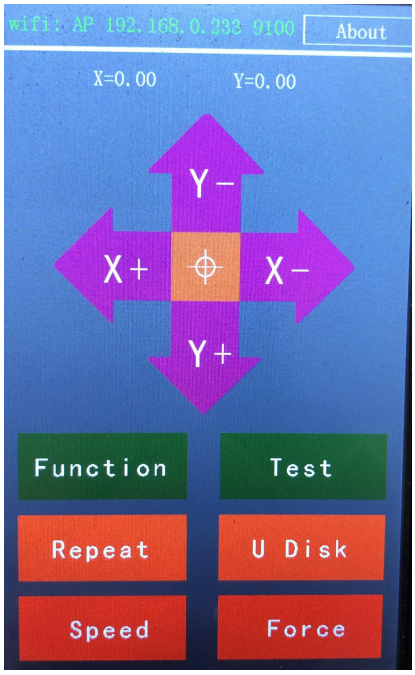
Spacing: The distance between the previous file and the next file. Cut a single sheet of material without modification.

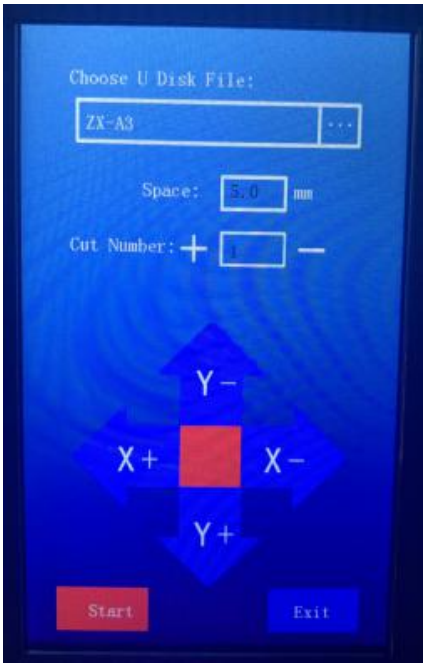




4.16 U disk

The machine can work offline without connecting to a computer.



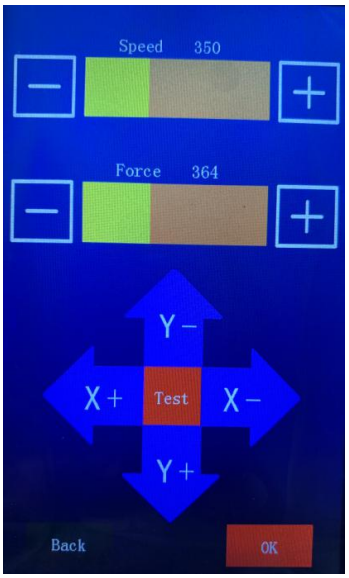


Operation method: Insert the U disk into the machine port, click "U Disk" to enter the second page, and then click "..." to enter the U disk file menu. Select the corresponding file name and click "Choose File" at the back. The machine starts working.

4.17 Pressure, Speed

Pressure: Adjust the pressure of the lower knife, and engrave the self-adhesive, the recommended value is between 100-400;

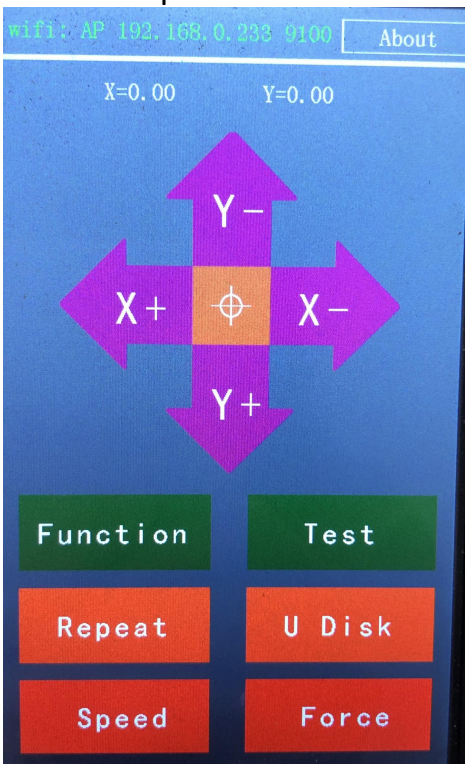
Speed: Cutting speed, adjustable.



4.18 About

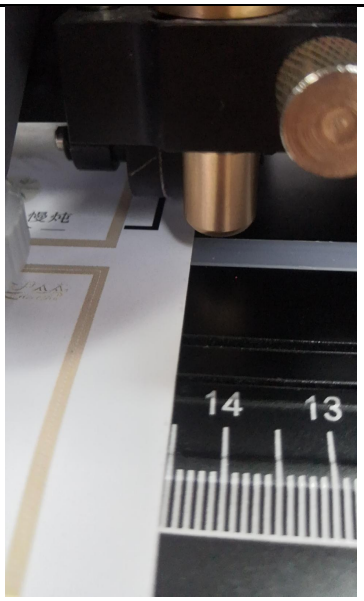
Click "About" in the upper right corner of the screen to display the machine model, limit travel, and software version number.

Limit travel: After the sports car moves beyond the travel, the machine will automatically return to the original position. Click the right edge of the box to increase the travel parameters.



5 Material holder placement position

Material marking points are placed behind the bead.



The golden knife holder is placed on the edge of the material

6. Software Guide Steps

Auto-Aligning System (AAS)

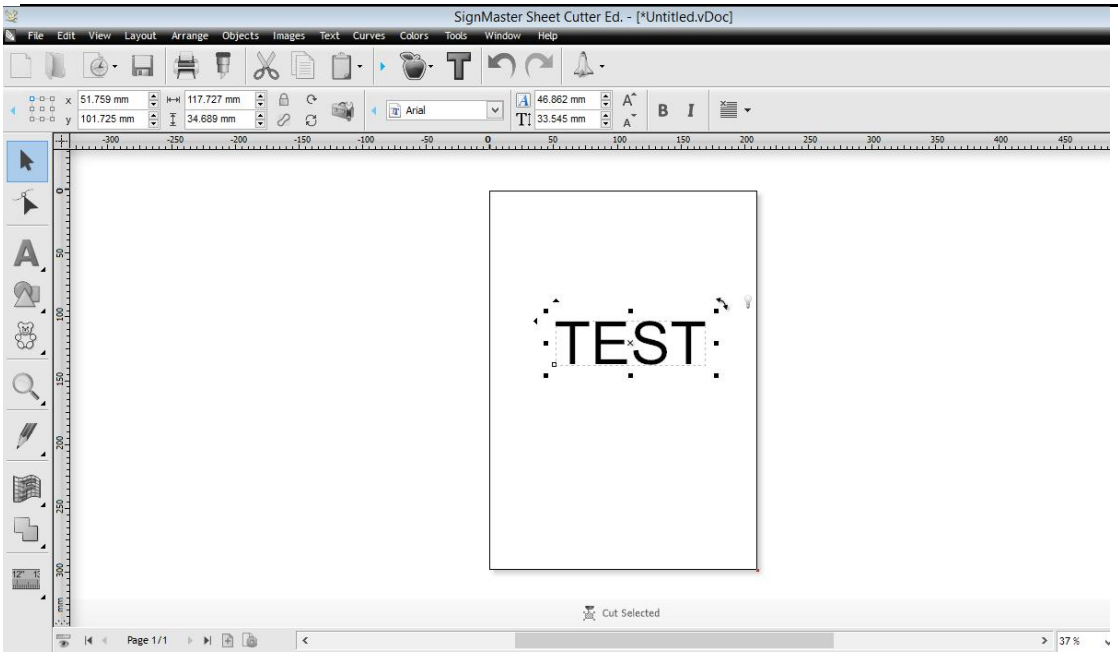
Introduction

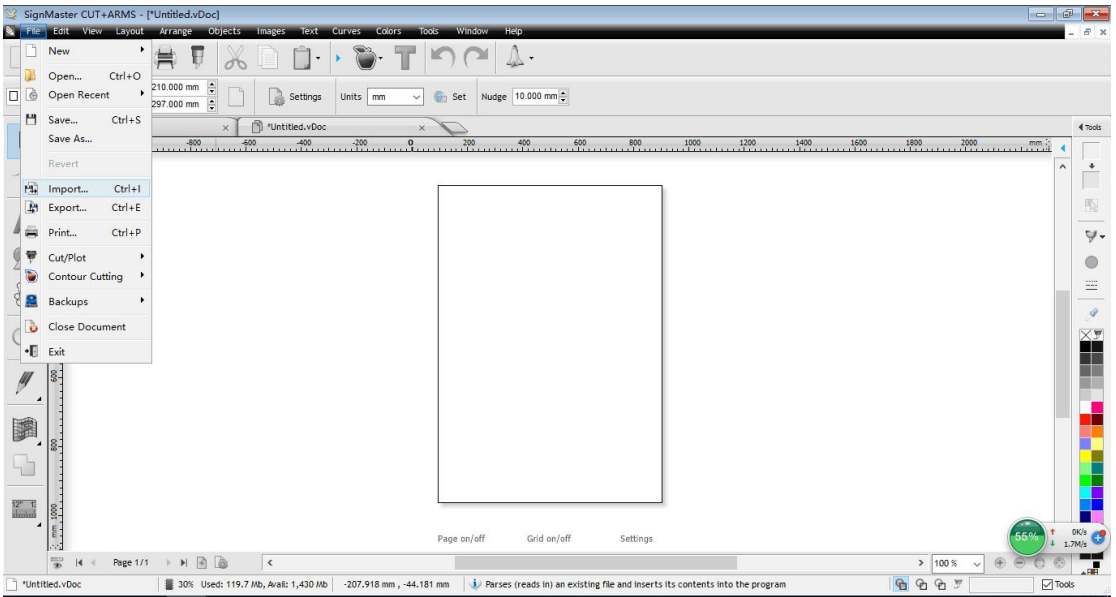
The T-A series cutting plotters with a Auto -Aligning System to guarantee automatic contour cutting by detecting the registration marks printed around the graphic.

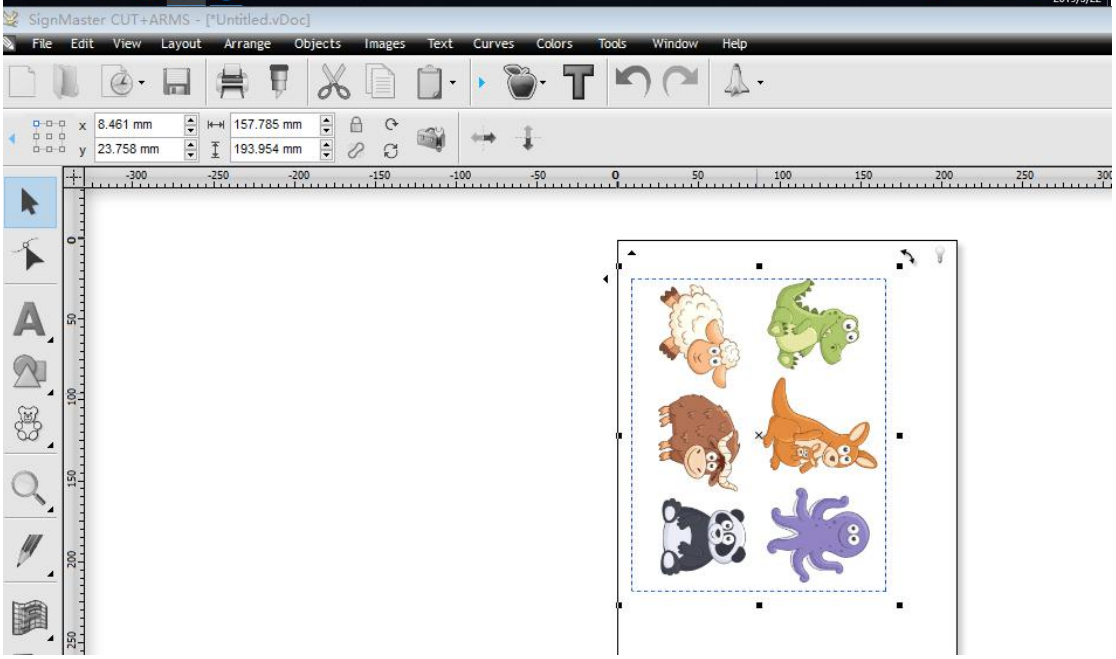
Signmaster software Operation

1. Prepare the graphic

Type fonts or import a pattern to the signmaster software.

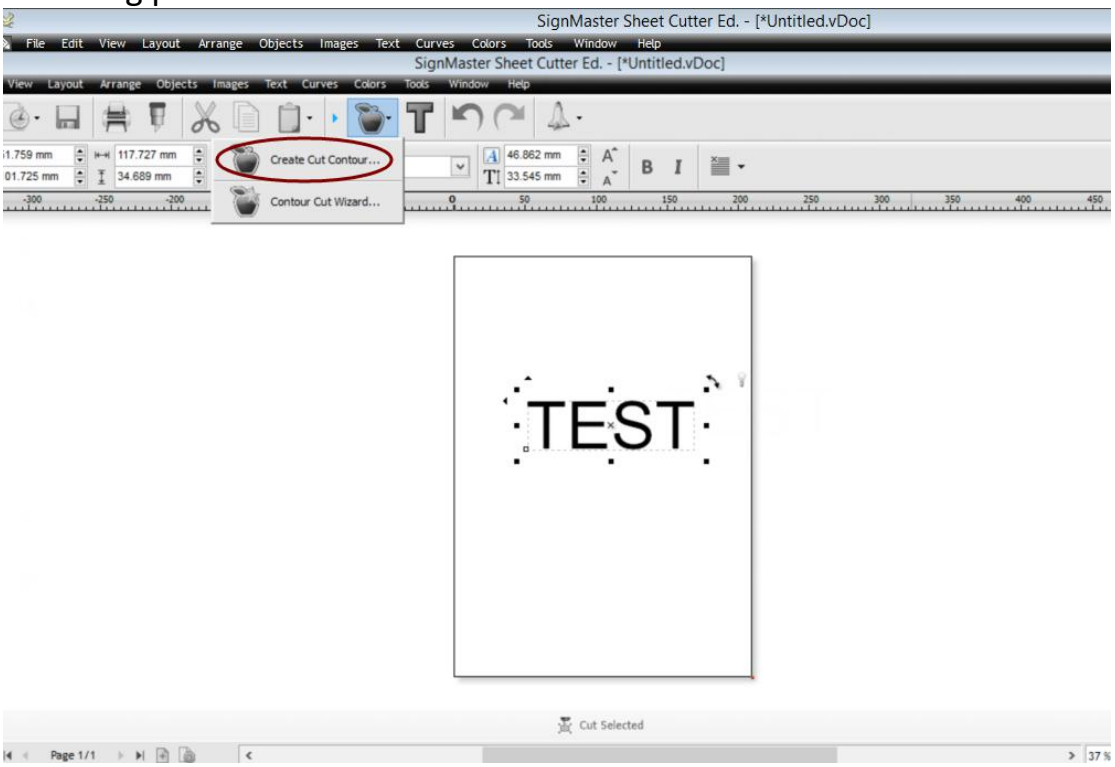

SignMaster Sheet Cutter Ed. - [*Untitled.vDoc]
File Edit View Layout Arrange Objects Images Text Curves Colors Tools Window Help
TEST
Cut Selected
Page 1/1

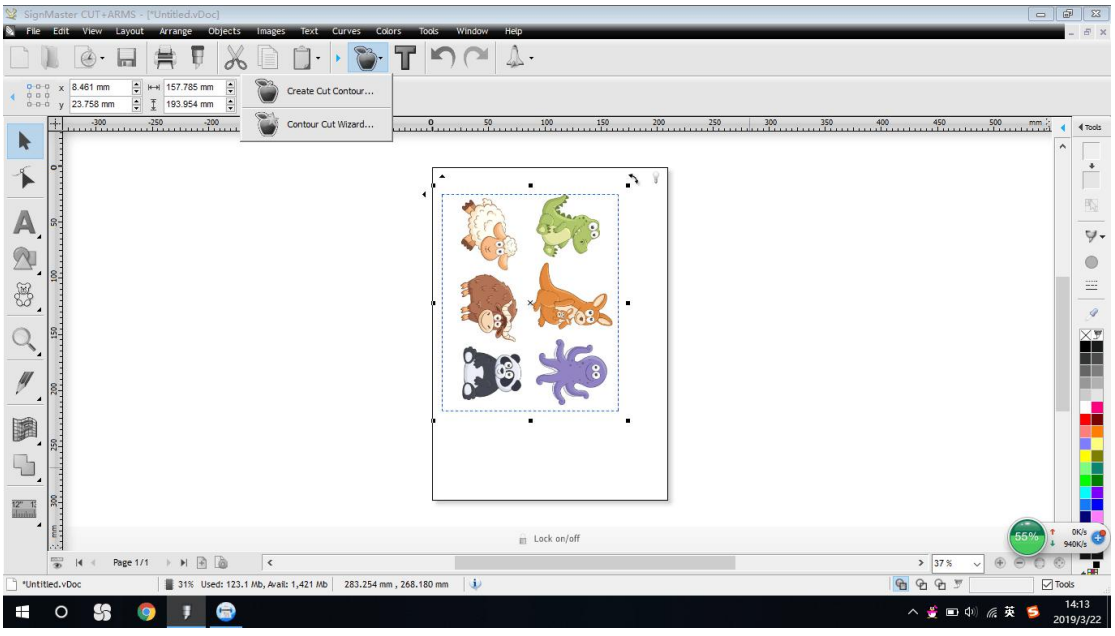

SignMaster CUT+ARMS - [*Untitled.vDoc]
File Edit View Layout Arrange Objects Images Text Curves Colors Tools Window Help
New
Open... Ctrl+O
Open Recent
Save... Ctrl+S
Save As...
Revert
Import... Ctrl+I
Export... Ctrl+E
Print... Ctrl+P
Cut/Plot
Contour Cutting
Backups
Close Document
Exit
Page on/off
Grid on/off
Settings
Page 1/1
*Untitled.vDoc
Parses (reads in) an existing file and inserts its contents into the program


SignMaster CUT+ARMS - [*Untitled.vDoc]
File Edit View Layout Arrange Objects Images Text Curves Colors Tools Window Help

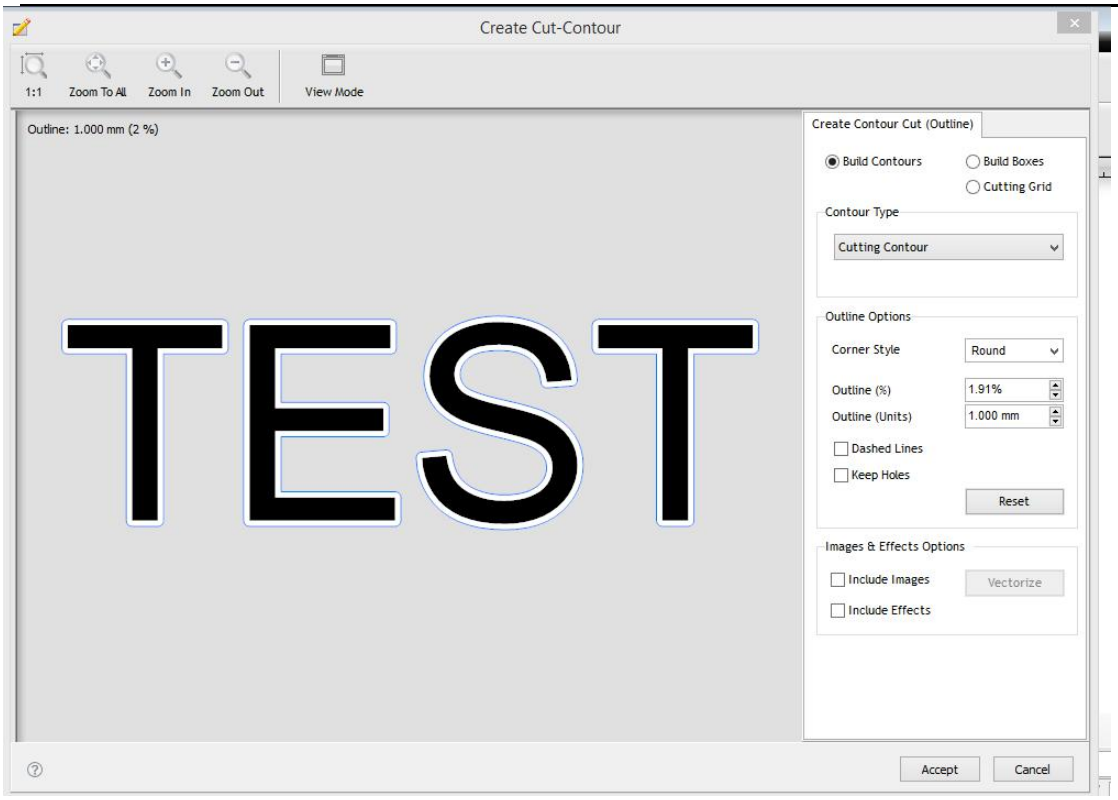
2. Create a contour for the graphic

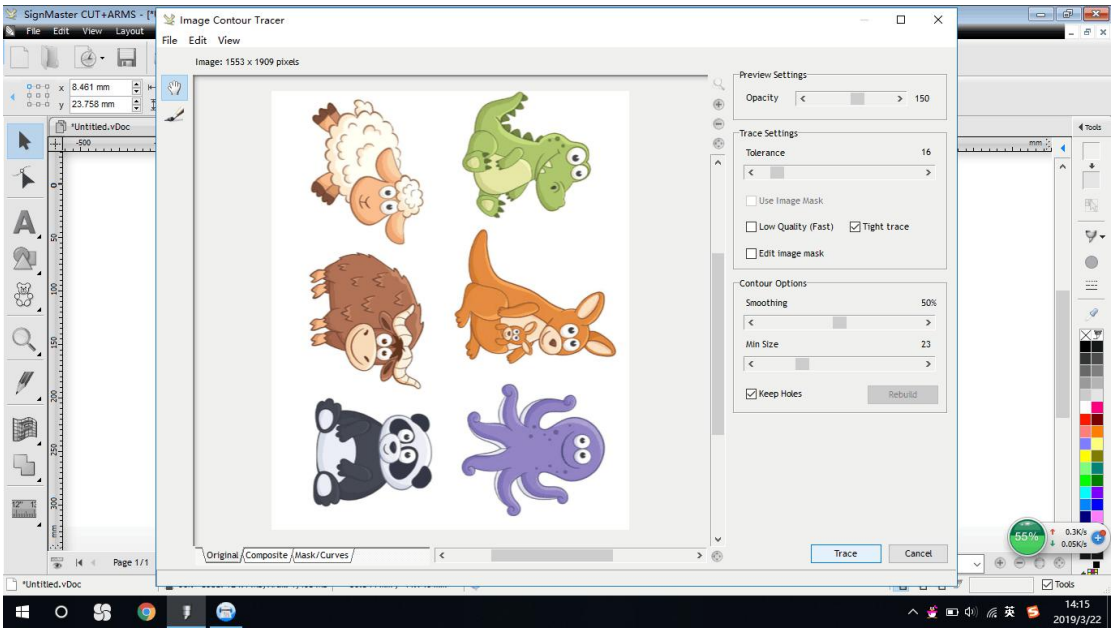
click the menu (apple pattern), click the first setting(Create cut contour……) , as following picture



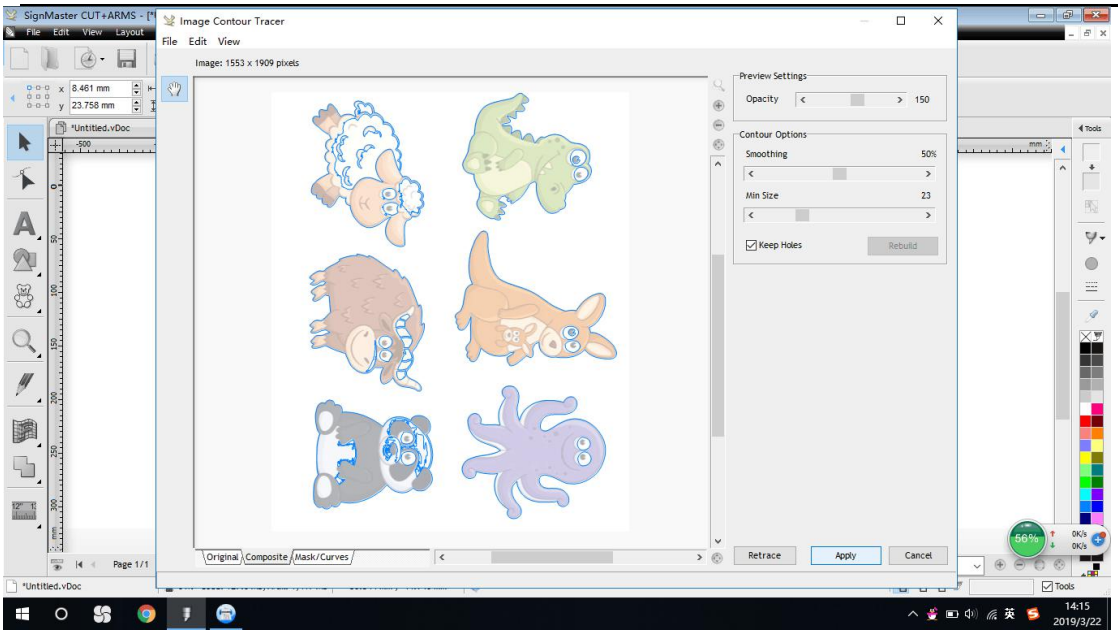


It will Show the screen as following:



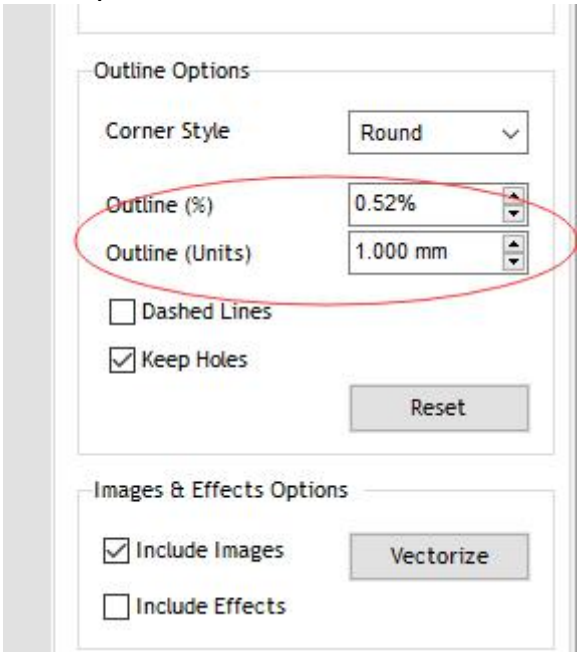


For pattern, it will need to click “Trace”. And then the software will start to scan the pattern automatically to give an outline.



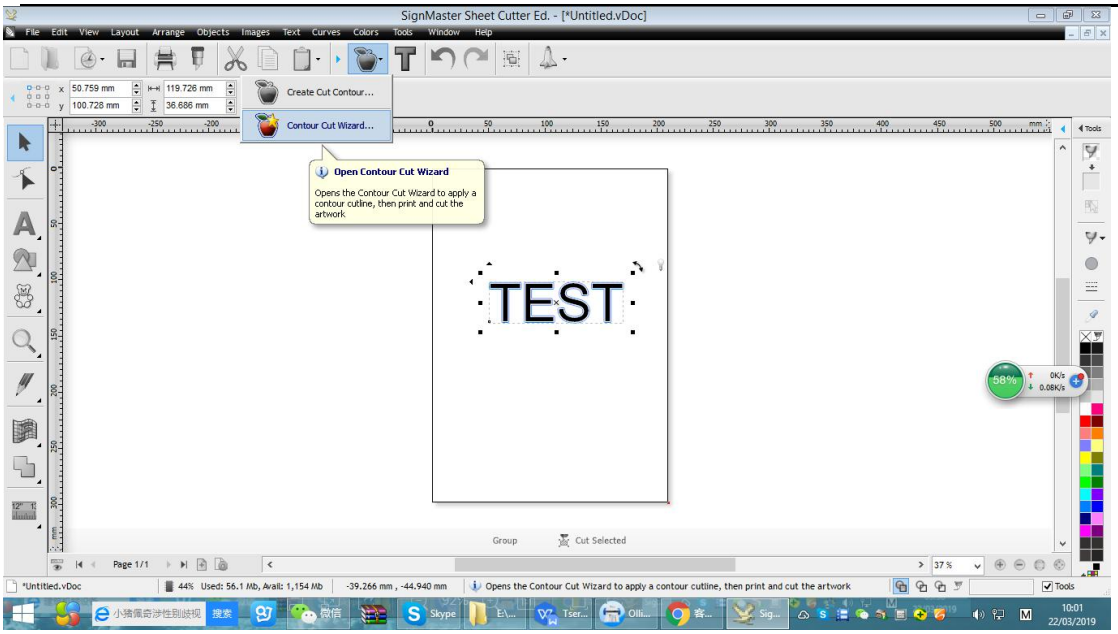
You can click “keep holes” or not according to your cutting job.

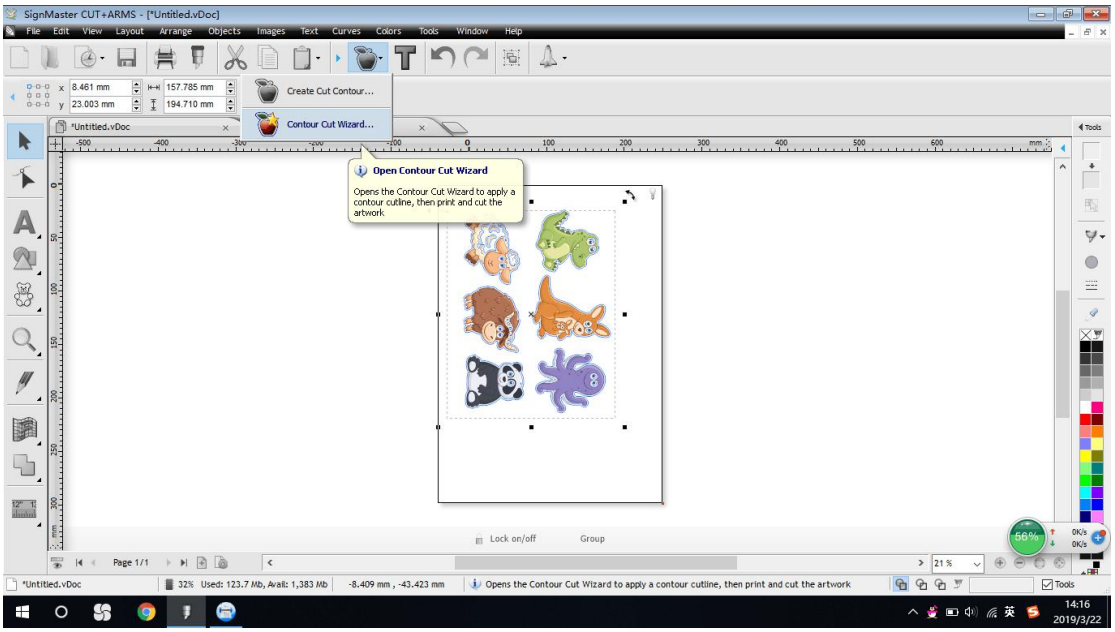
choose appropriate outline value (according to your work) and click the “ accept ”button, contour creation finished.



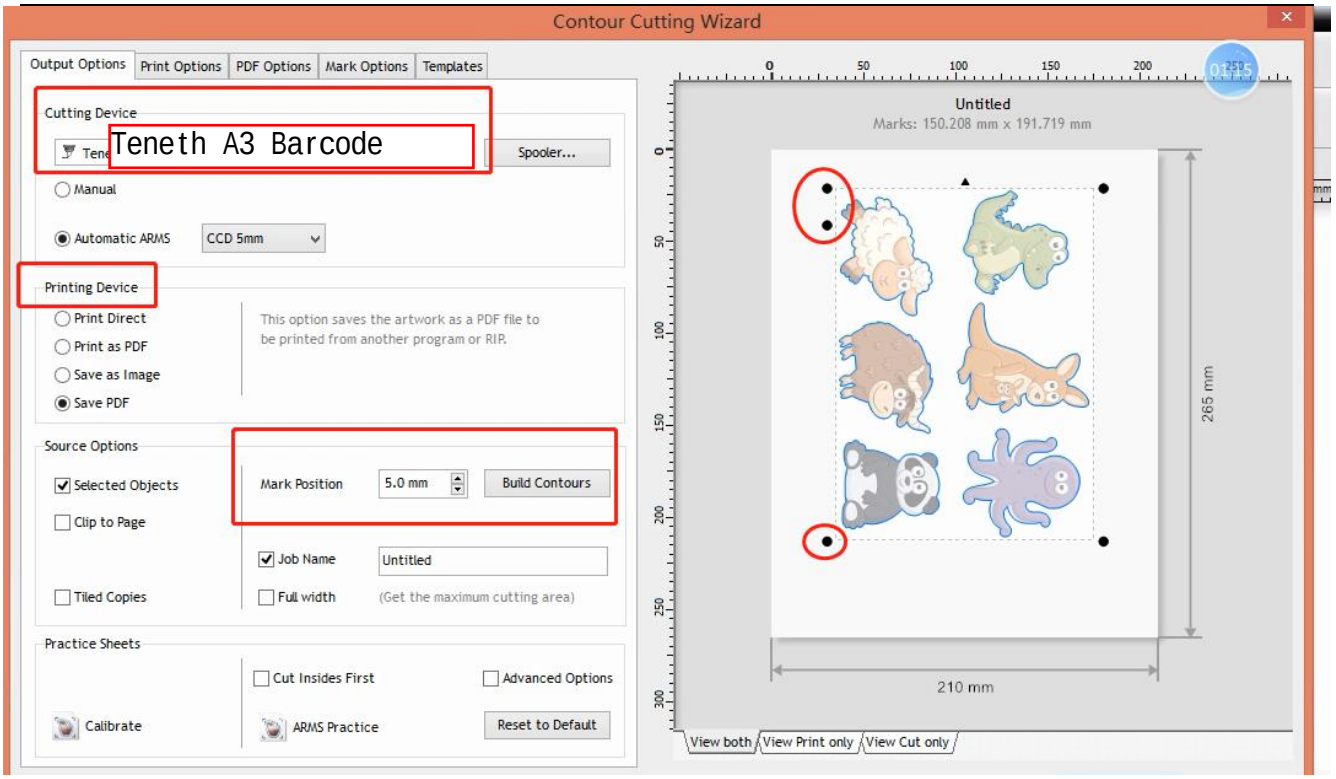
3. Add the registration marks

click the menu apple pattern, the second setting, as the following picture





Show the screen as following, it will add Dot marks with the pattern.



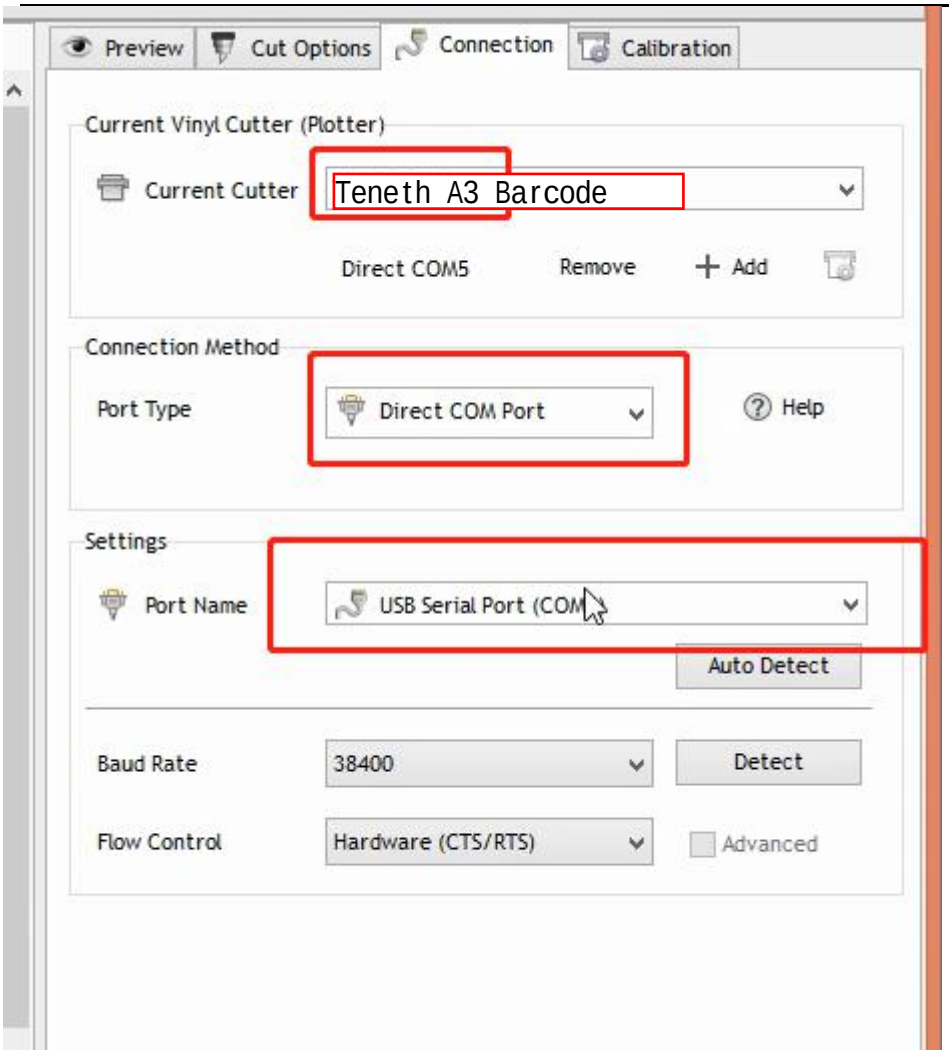
4. Print the Graphics

Click “Print ” to print the graphic with the marks by your printer . (make sure your computer connect with printer)

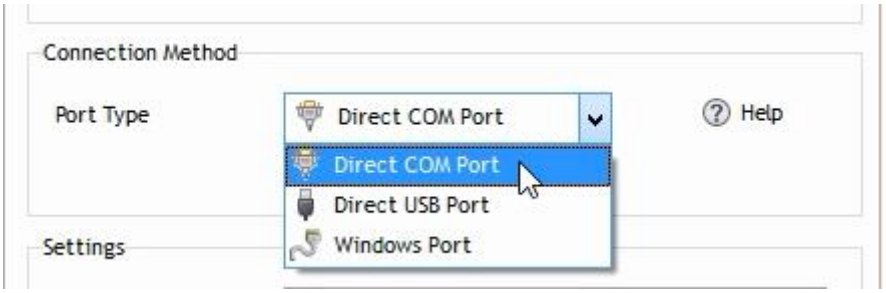
Scaling must be 100% .(To make sure the printed size is the same as the cutting size)

5. Connection (USB, Serial port, U disk)

Click the “Spoodler”



You can add a machine model, choose the right one according to your machine model.

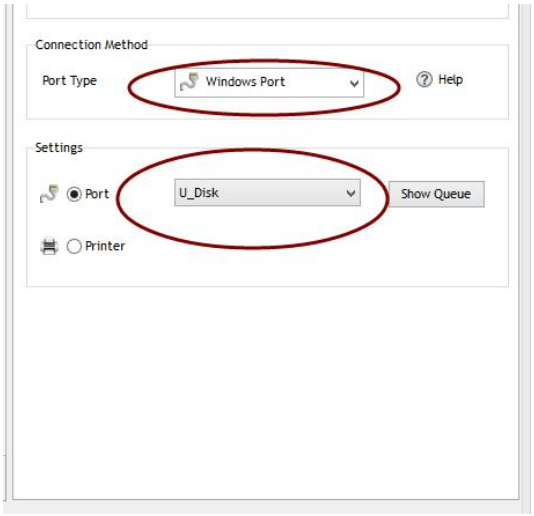


When you connect the machine and computer by using USB cable, choose the “Port type” “Direct COM Port”.
The “Setting”, select the port name. (If you insert the USB cable, it will show the cable name)

Or you can check the Computer Property.

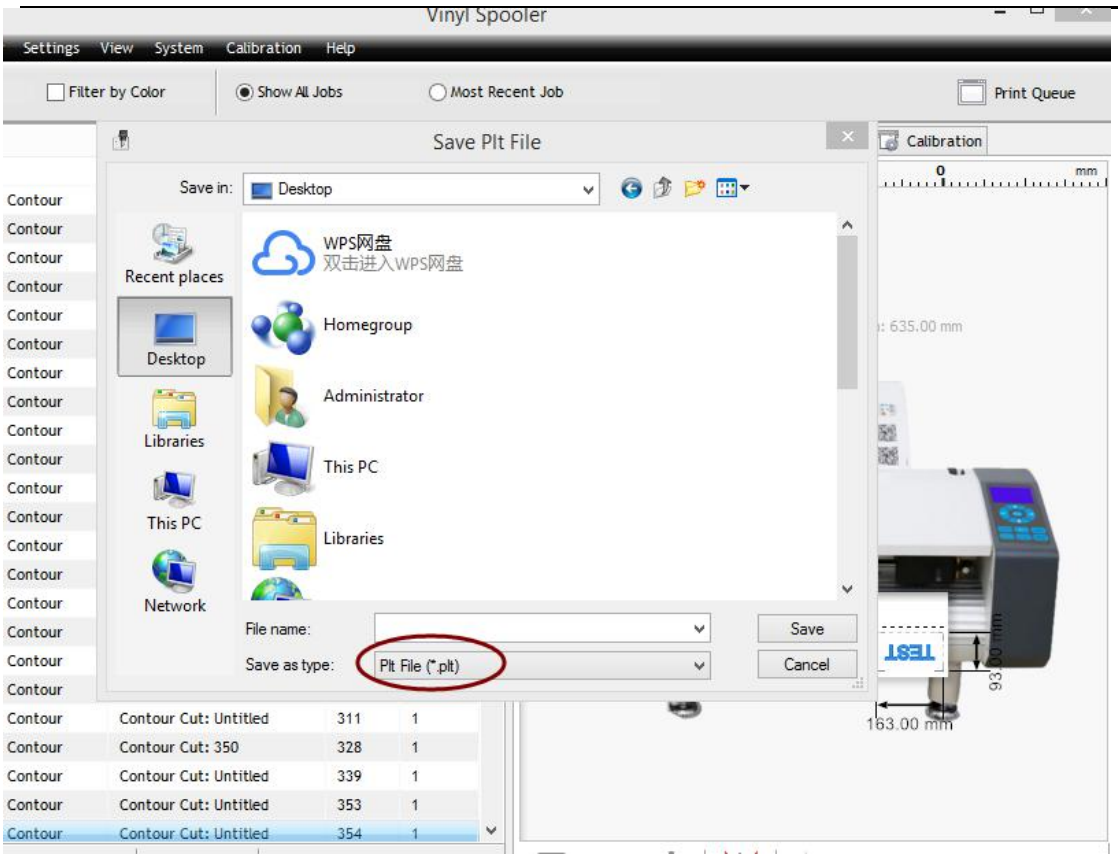
If you need to save to U disk. The “Port Type” choose “Windows port”, and then the port will show U disk.

U disk will save the pattern in .plt format.



When finished all, click “done”.

Choose “Save as Image” , and “Save image”.



Click “Next”. It will come to the screen of saving .plt format files. You can type a name to define it.

6. Cutting