

USER MANUAL

For Teneth Mini Cutter



Table of Contents

USER MANUAL.....	1
For Teneth Mini Cutter.....	1
Table of Contents.....	2
1. Important Information	3
2. General Information	5
2.1 Introduction.....	5
2.2 Package Items.....	5
2.3 View.....	5
2.3.1 Keyboards Introduction.....	5
3. Set up your cutting plotter	6
3.1 Connect your cutting plotter.....	6
3.1.1 Connect the AC cable.....	6
3.1.2 Connect the USB cable.....	6
3.2 Blade installation.....	9
3.2.1 How to install a blade.....	10
3.2.2 Blade holder installation.....	10
4. Basic Operations	11
4.1 Pressure Test.....	11
4.2 Pressure and Speed.....	12
4.3 Repeat.....	12
4.4 U disk.....	12
4.3.1 U disk interface.....	13
4.3.2 U disk Copy setting.....	13
4.3.3 U disk output.....	13
4.4 Function ---- Secondary Menu.....	13
4.4.1 Adjust (For better cutting precision).....	13
4.4.2 Language setting.....	14
4.4.3 Wifi (Optional).....	14
4.4.4 Scale (Problem between printed and cutting pattern size).....	14
4.4.5 Other (LCD lights adjustment).....	16
4.4.6 Home.....	16
4.4.7 Factory Default.....	17
4.4.8 Exit.....	17
5. Software Guide Steps	17
Introduction.....	17
1. Prepare the graphic.....	17
2. Create a contour for the graphic.....	19
3. Add the registration marks.....	22
4. Print the Graphics.....	23
5. Connection (USB, Serial port, U disk).....	23
6. Cutting.....	26

1. Important Information

Before you use the cutting plotter, please make sure that you have read the safety precautions and instructions below.

Notes, Cautions, and Warnings

 NOTE: A NOTE indicates important information that helps you make better use of your cutting plotter.	
 CAUTION: A CAUTION indicates either potential damage to cutting plotter or loss of data and tells you how to avoid the problem.	
 WARNING: A WARNING indicates a potential for property damage, personal injury, or death.	
 WARNING	
Do not disassemble or remodel the plotter.	Handling of the power cable
• Never disassemble or remodel the plotter. Disassembly or remodeling can result in an electric shock or breakdown of the machine.	• Use the supplied power cable. Take care not to damage, break or work upon the power cable. If a heavy material is placed on the power cable, or if it is heated or pulled, the power cable can break, thus resulting in fire or electric shocks.
Avoid locating the plotter in a damp environment.	
• Do not use the plotter in a damp place. Do not splash water onto the machine. Use in such an environment can give rise to fire, electric shocks or breakdown of the plotter.	
In case abnormal event occurs.	

- Use of the plotter under an abnormal condition where the device produces smoke or strange smell can result in fire or electric shocks. If such an abnormality is found, be sure to turn off the power switch immediately and unplug the cable from the wall outlet. Check first that the plotter no longer produces smoke, and contact your distributor for repair.
- Never repair your plotter by yourself since it is very dangerous for you to do so.



CAUTION

Do not place the cutting plotter in below places:

- A place exposed to direct sunlight.
- On an inclined surface.
- A place where temperature or humidity varies significantly.
Use the plotter under the following environmental conditions:
Operating environment: 20 to 35°C 35 to 65% (Rh)
- A place that vibrates.
- A place exposed to direct air flow from an air conditioner or the like.
- Around a place where flame is Used.

For blade

- Do not touch the cutter blade, which is very sharp.
- Do not shake or swing the cutter holder; otherwise, the blade may come off.

Be careful with the movable parts

- During an operation, do not touch any of the moving parts of this machine (such as the carriage). Also be careful to make sure that clothing and hair do not get caught.

Sheets

- Straighten the sheet of media, if significantly curled, before using it for printing. Heavily curled sheet affects the cutting (plotting) result.

Always put the pinch rollers within the red marks.

Keep the tools away from children where they can reach.

Always connect the power cable to a grounded outlet.

2. General Information

2.1 Introduction

This mini cutter is designed mostly for family and home use.

It max media width is 440mm, max cutting width is 330mm.

2.2 Package Items

The package of the contents the items listed below, please check carefully. If you find any item missing, please consult your local dealer for further assistance.

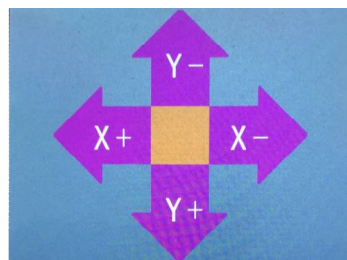
Spare parts list:

1. Power cable
2. USB cable
3. Operation CD
4. Drawing pen with pen holder
5. Blade (3 pcs)
6. Blade holder

2.3 View

2.3.1 Keyboards Introduction

Direction button:



Menu button:



Test button:

TEST

Repeat button:

REPEAT

U disk :

U DISK

Pressure and Speed :

SPEED

PRESSURE

3. Set up your cutting plotter

3.1 Connect your cutting plotter

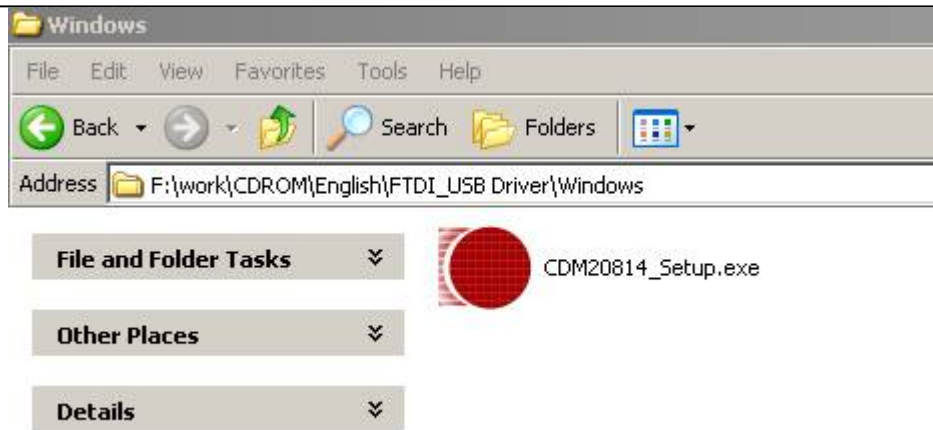
3.1.1 Connect the AC cable

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

3.1.2 Connect the USB cable

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

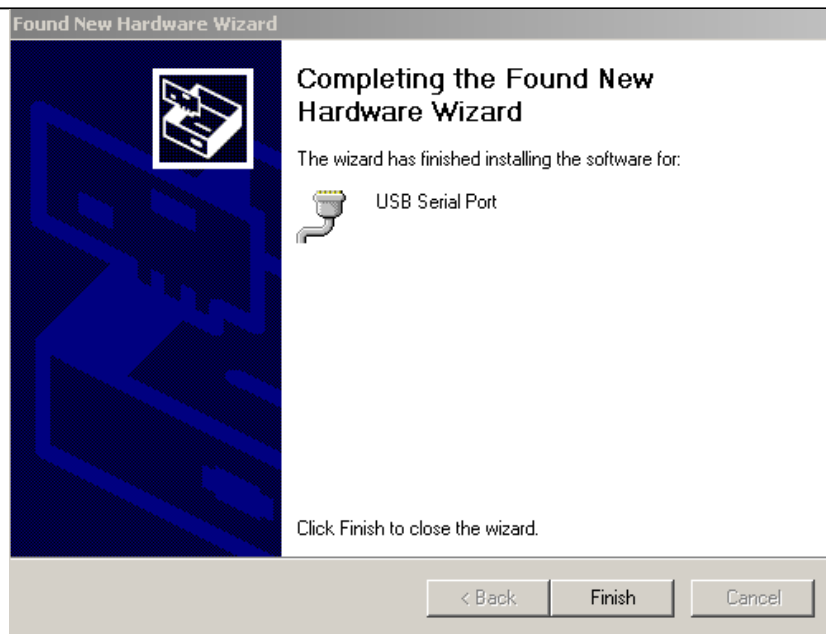
- ① Find the following files from the CD, Double-click CDM20814_Setup.exe



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

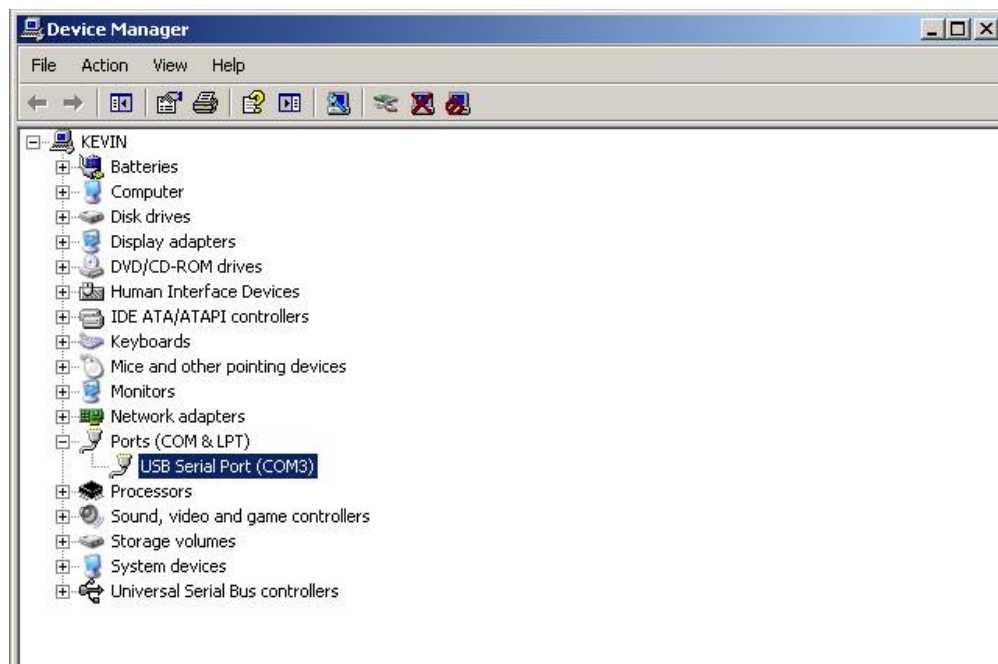


③ Click “**NEXT**”

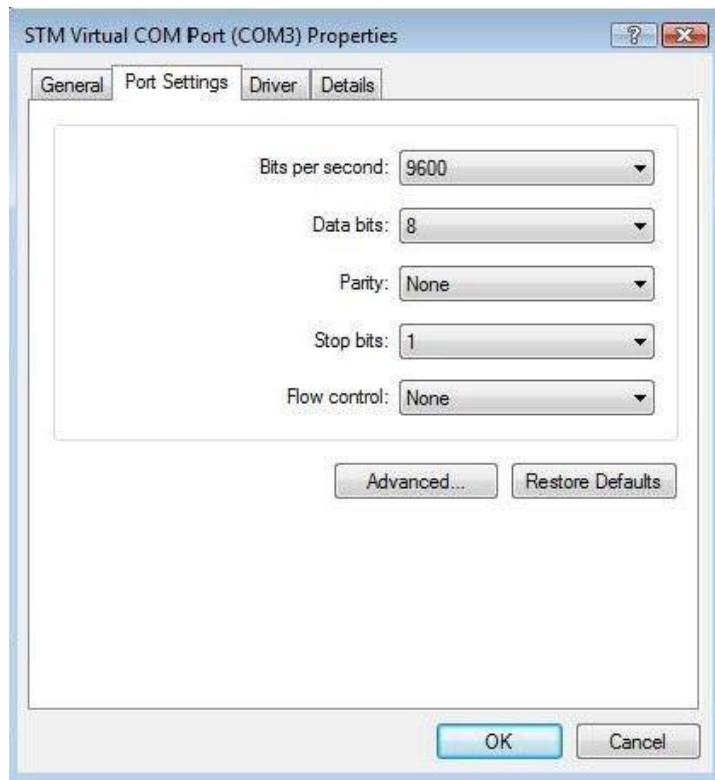


④ Click **“Finish”**

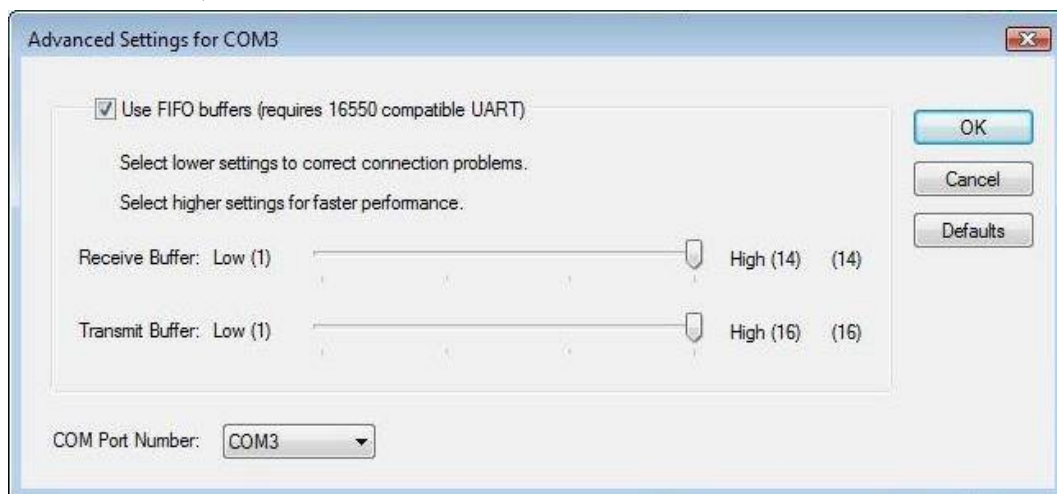
⑤ If driver was installed successfully, You can find a new port in **Device Manager**, shown as below



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**”



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.

3.2 Blade installation

Figure 3-1 and 3-2 are the drawings of the blade holder.



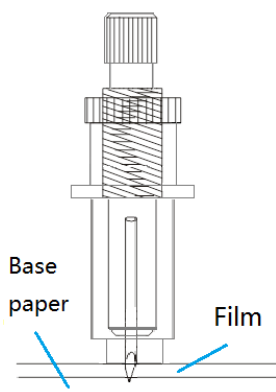
Figure 3-1



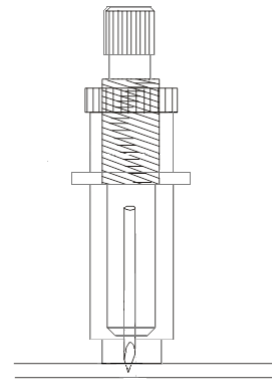
Figure 3-2

3.2.1 How to install a blade

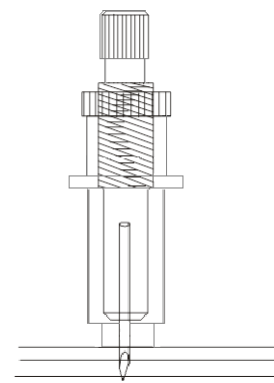
- ① Remove the blade sheath by rotating it.
- ② insert the blade into the hole of the blade handle.
- ③ Adjust the blade tip to suitable length by rotating the adjusting knob and blade sheath clockwise or count-clockwise.



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.

3.2.2 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.

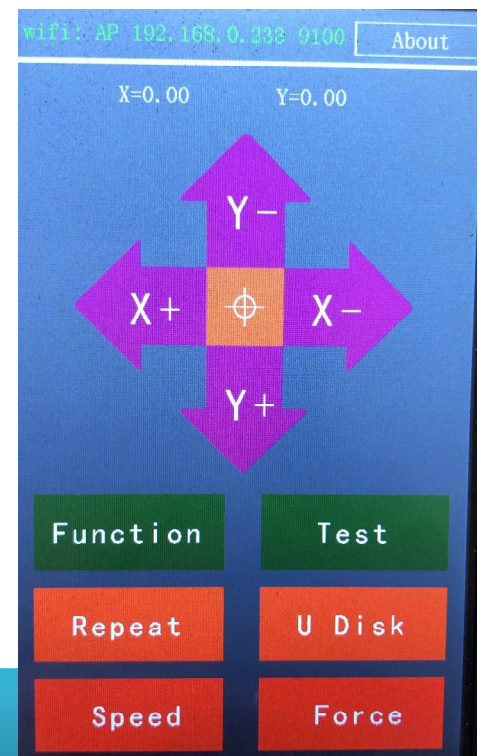


NOTE: If you want to cutting a sheet without a reversed adhesive paper (like a pasteboard), You should use a sticker sheet under it.



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. Basic Operations

4.1 Pressure Test

It will help you to know the conditions of the blade.

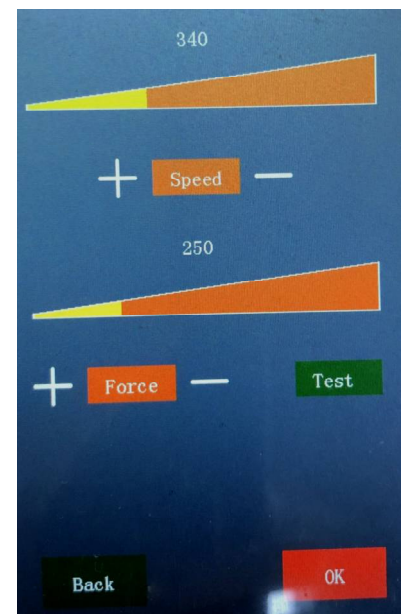


Press the **TEST** button, it will cut a rectangle on material, shown as above, Check

whether the rectangle can be completely teared off or not in order to make sure the right pressure and the length of the blade tip for cutting job.



NOTE: When the cutter blade is worn and dull, you can use it temporarily by enhancing the value of PRESSURE. However, you are recommended to replace the worn cutter blade by a new one to ensure a satisfactory cutting quality.



4.2 Pressure and Speed

4.2.1 Speed Setting

Press **SPEED** button goes to the interface

The first line shows “Speed” value. Press “+” or “-” to add or reduce the speed value.

Maximum: 800mm/s. Click “OK” to save the data.

4.2.2 Pressure setting

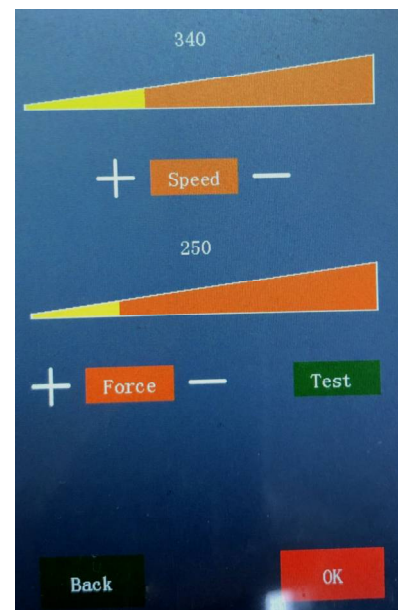
Press **PRESSURE** button goes to interface

The second line shows “force” value. Press “+” or “-” to increase or decrease the pressure value.

Maximum : 1000g.

Press “ Test ” to make sure the pressure is in good cutting condition.

Click” OK ” to save the data.

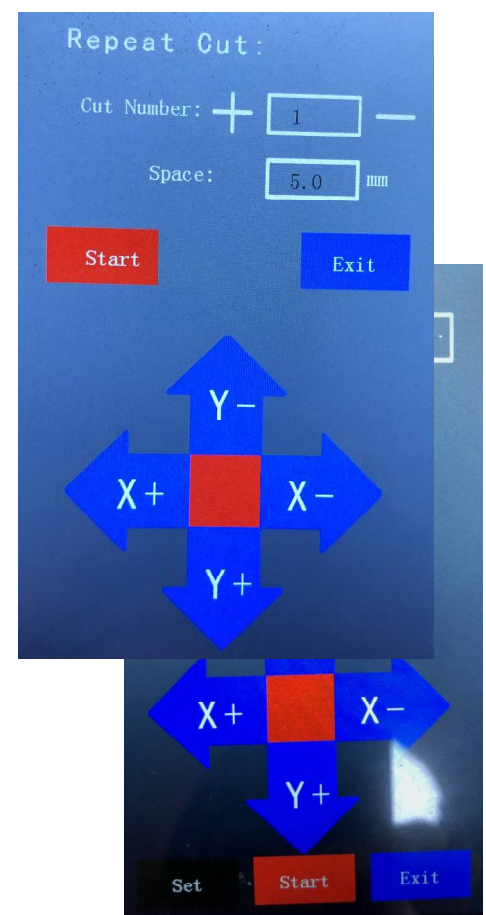


4.3 Repeat

Press **Repeat** button to go to this screen.

“Cut Number” means copy. You can set according to your cutting work.

“Space” means after one cutting work finished, the gap between the second cutting work.



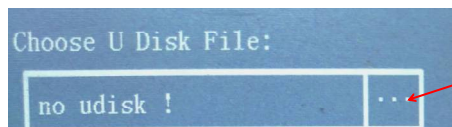
4.4 U disk

4.3.1 U disk interface

Press  button to go to the interface

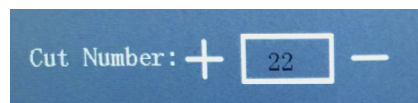
(save what you need to cut .plt format file into U disk, and then insert your U DISK in machine.)

Press



It will display what the file you save in U disk.

4.3.2 U disk Copy setting



The data

Shows the copy times.

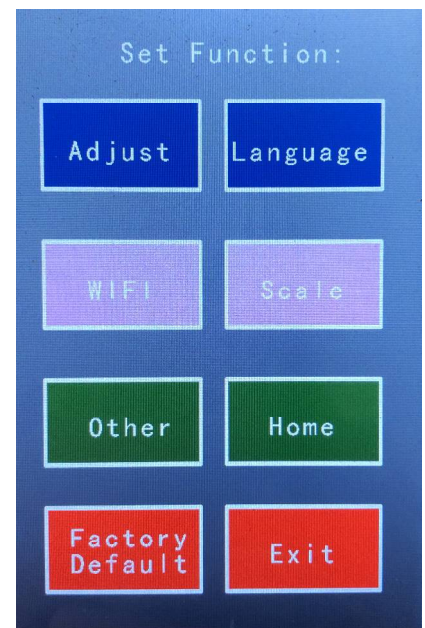
Press “ + ” or “ -- ” to add the cut number. Min: 1 , Max: 2000.

4.3.3 U disk output

After you choose the right file, click “ **Start** ” to start the cutting job.

4.4 Function ---- Secondary Menu

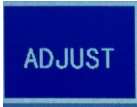
Click the  button goes to secondary menu screen.



4.4.1 Adjust (For better cutting precision)

Before we start to cut, we need to adjust the CCD camera if necessary. (It will be adjusted from factory)

If cutting has some precision problem, such as **the whole cutting pattern turns to shift to left , right , upper or down side** . Then you need to adjust the machine DX, DY value.

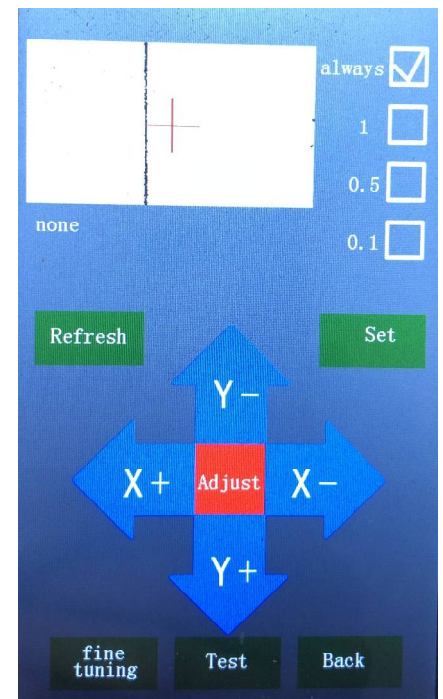
Click  button goes to interface

It shows this screen.

Prepare a blank material, and install the pen holder. Press  button. Then the machine will draw a box automatically.

When Drawing finished, the adjust process finished.

Press Back button.

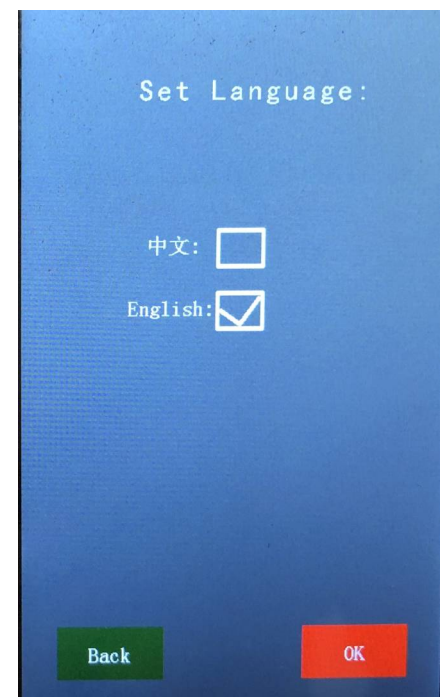


4.4.2 Language setting

Click  goes to interface

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

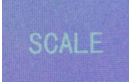
Click “OK” to save the data.



4.4.3 Wifi (Optional)

4.4.4 Scale (Problem between printed and cutting pattern size)

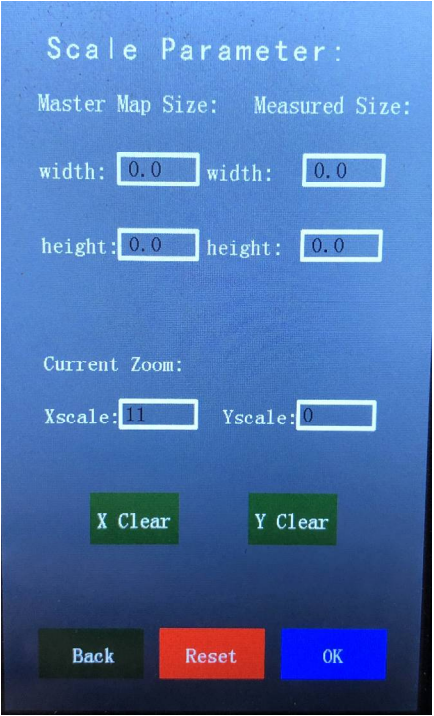
If the printed pattern size is not the same as the size what we made inside software,
then we need to adjust the value. And we need to use the tool : scale calculator .

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.



Scale Parameter:

Master Map Size: Measured Size:

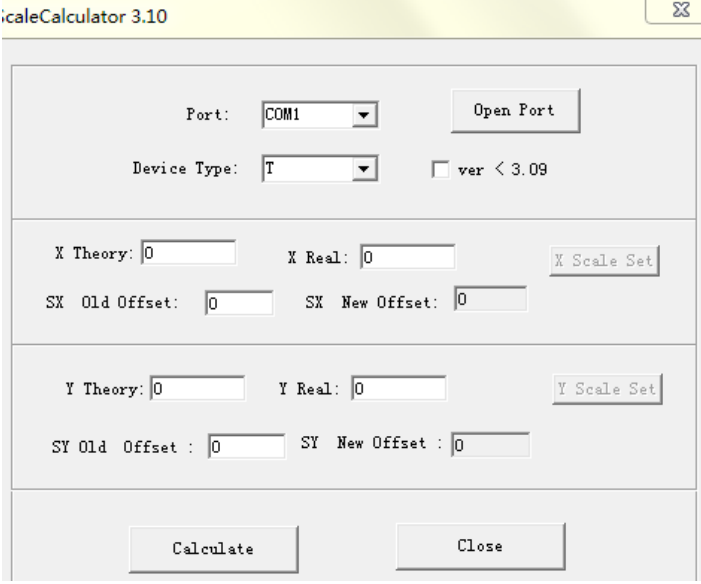
width: width:

height: height:

Current Zoom:

Xscale: Yscale:

Or use  ScaleCalculator (inside CD)



ScaleCalculator 3.10

Port:

Device Type: ☐ ver < 3.09

X Theory: X Real:

SX Old Offset: SX New Offset:

Y Theory: Y Real:

SY Old Offset: SY New Offset:

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.

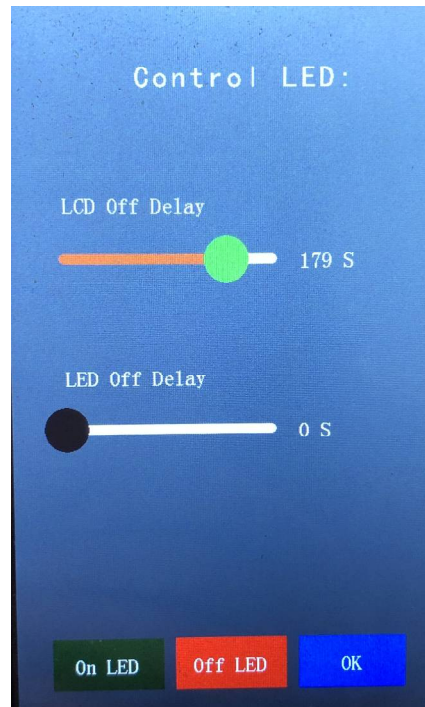
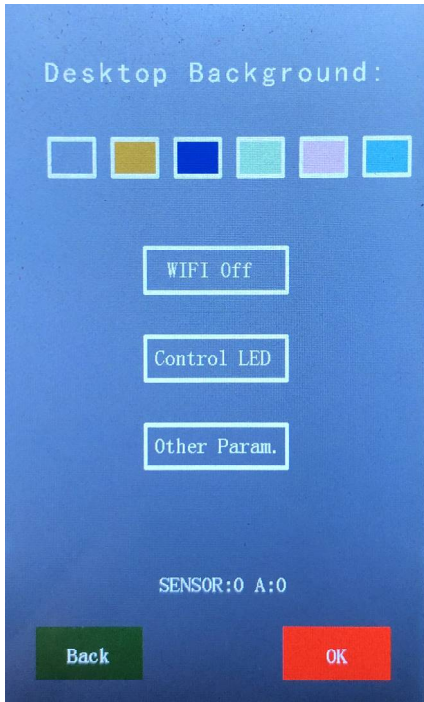
After we got the new offset value of Scale X, Y. Use direction button to change it.



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

4.4.5 Other (LCD lights adjustment)

Click **OTHER** 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.



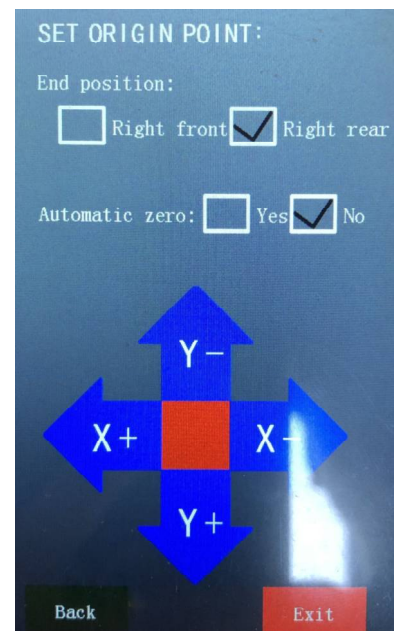
NOTE: No matter background light or control LED, you can adjust it according to your preference.

4.4.6 Home

Click **HOME** 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.

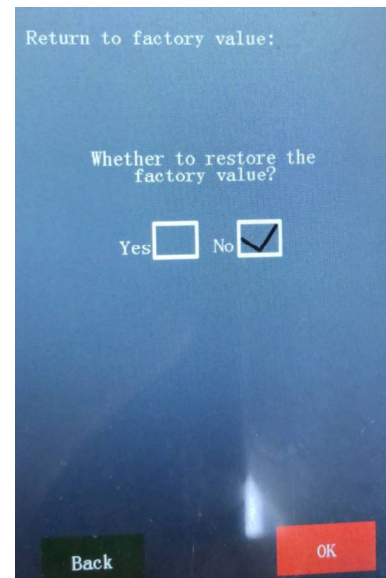
When you turn on the machine, the machine carriage will back to the original place. You can click “Yes” or “No” in “Automatic zero” to determine if you need it go back or no.

4.4.7 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.



4.4.8 Exit

When you no need to go to secondary menu, you can click  to go back to first menu screen.

5. Software Guide Steps

Auto-Aligning System (AAS)

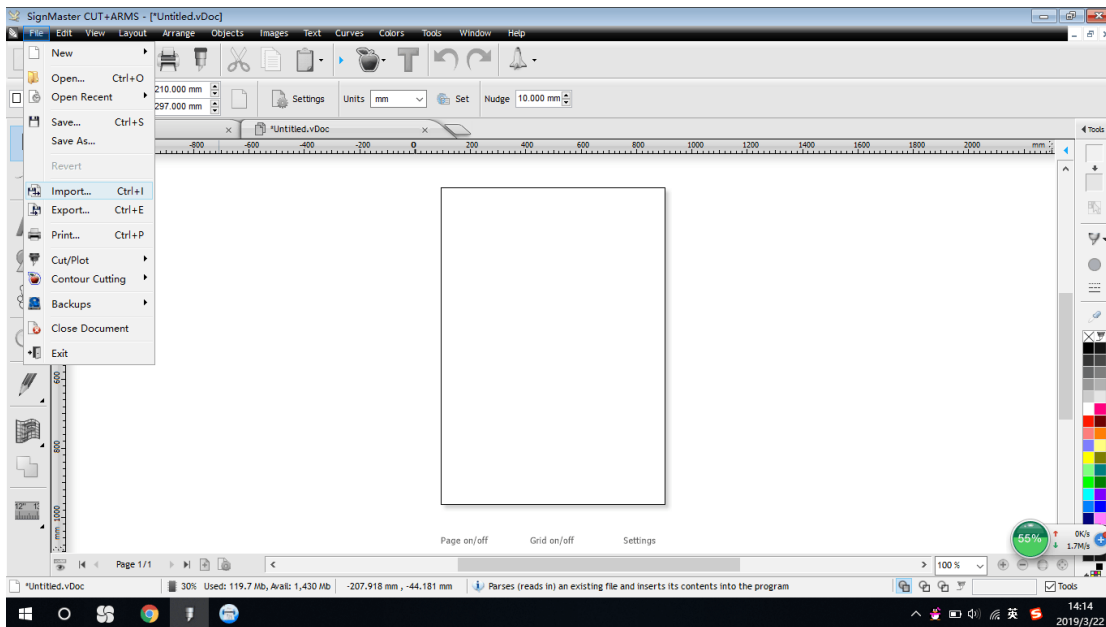
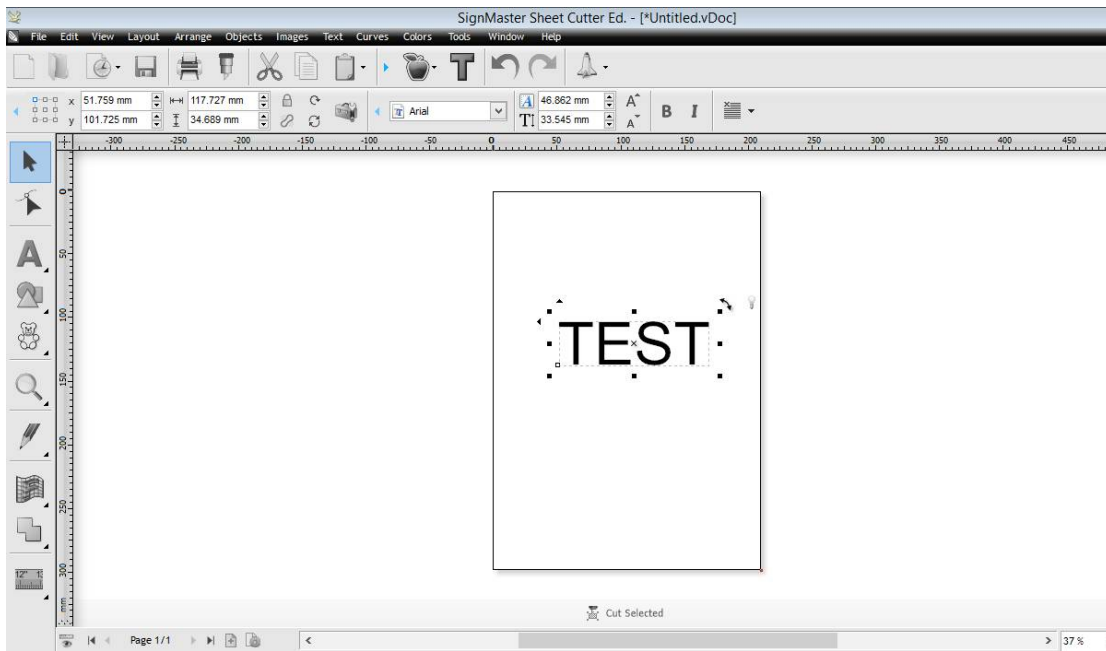
Introduction

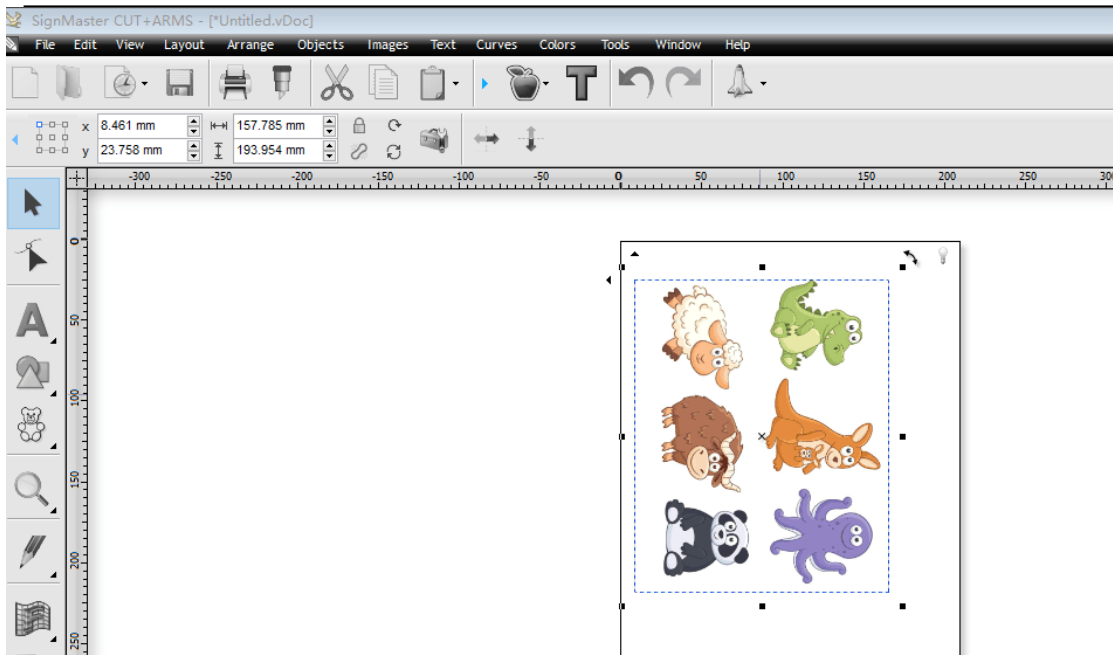
The T-A series cutting plotters with a Auto -Aligning System to guarantee automatic contour cutting by detecting the registration marks printed around the graphic.

Signmaster software Operation

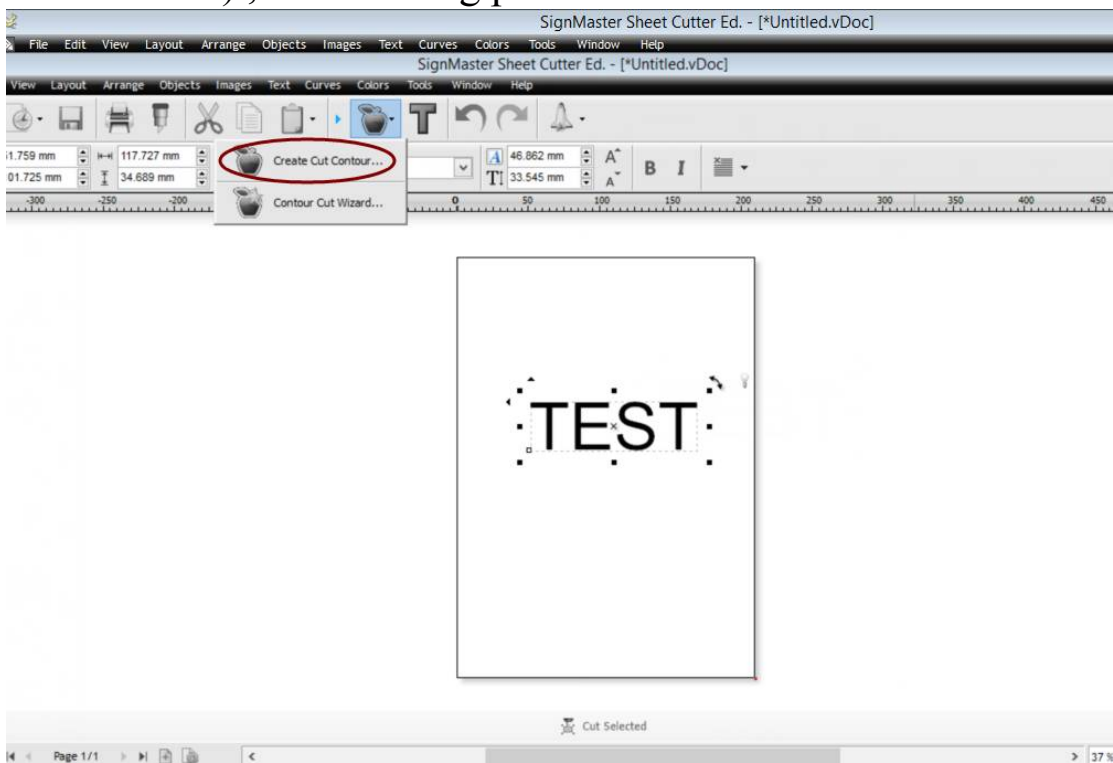
1. Prepare the graphic

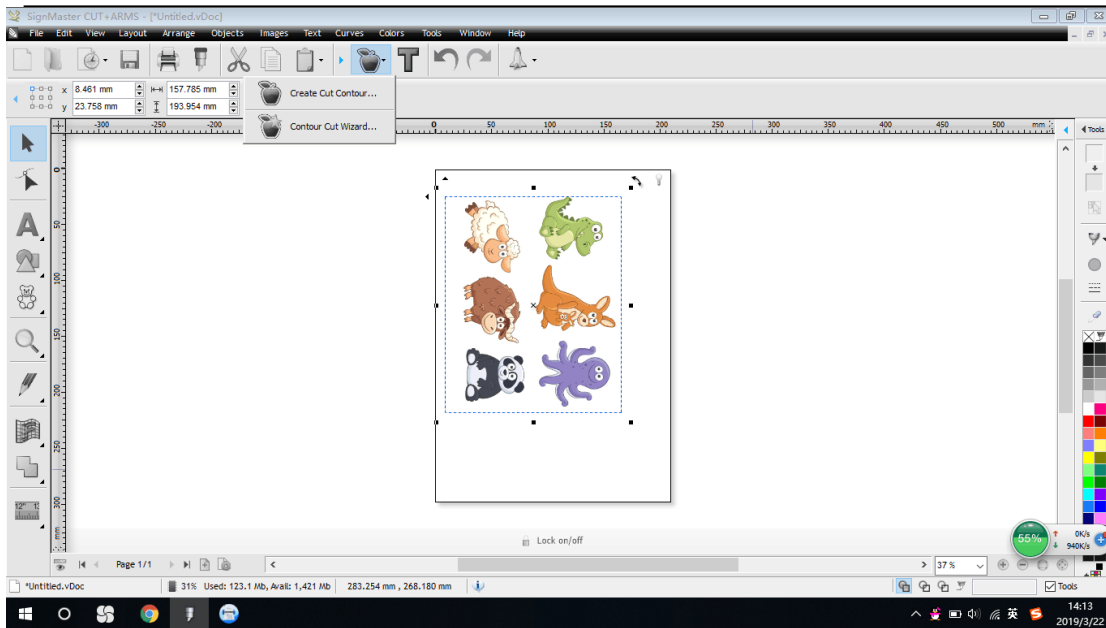
Type fonts or import a pattern to the signmaster software.



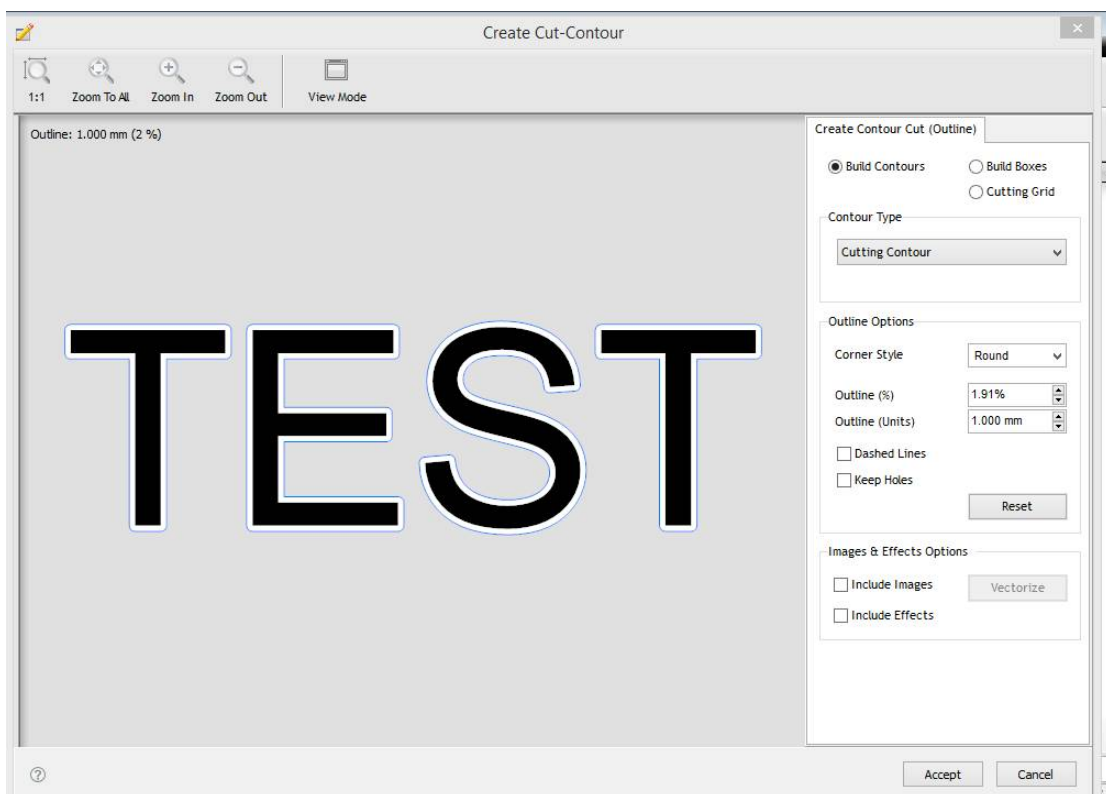


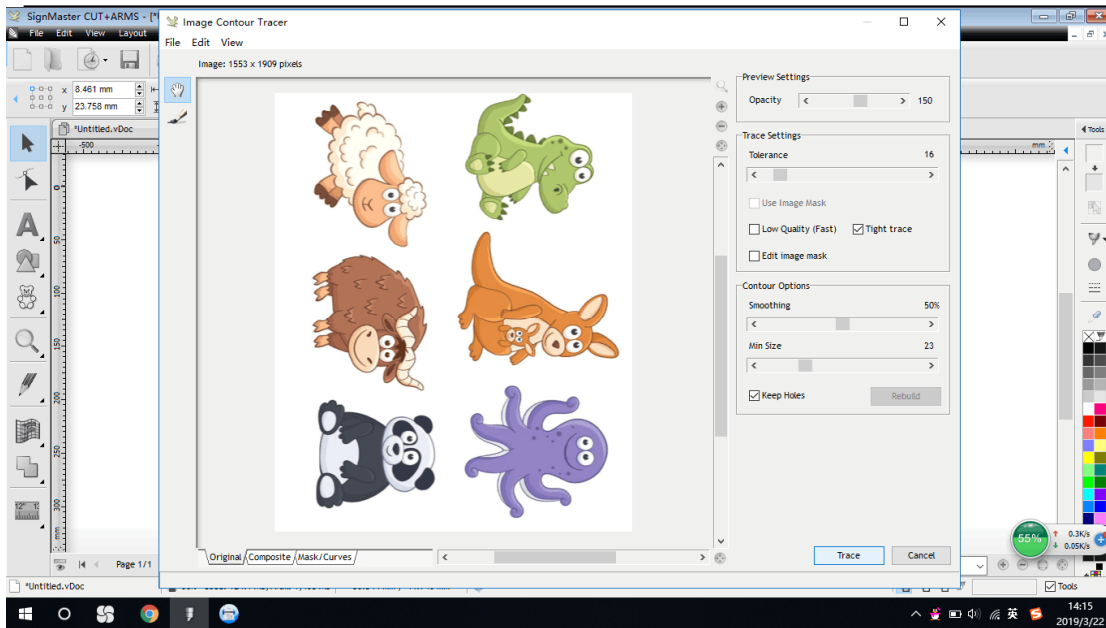
2. Create a contour for the graphic
 click the menu (apple pattern), click the first setting(Create cut contour.....) , as following picture



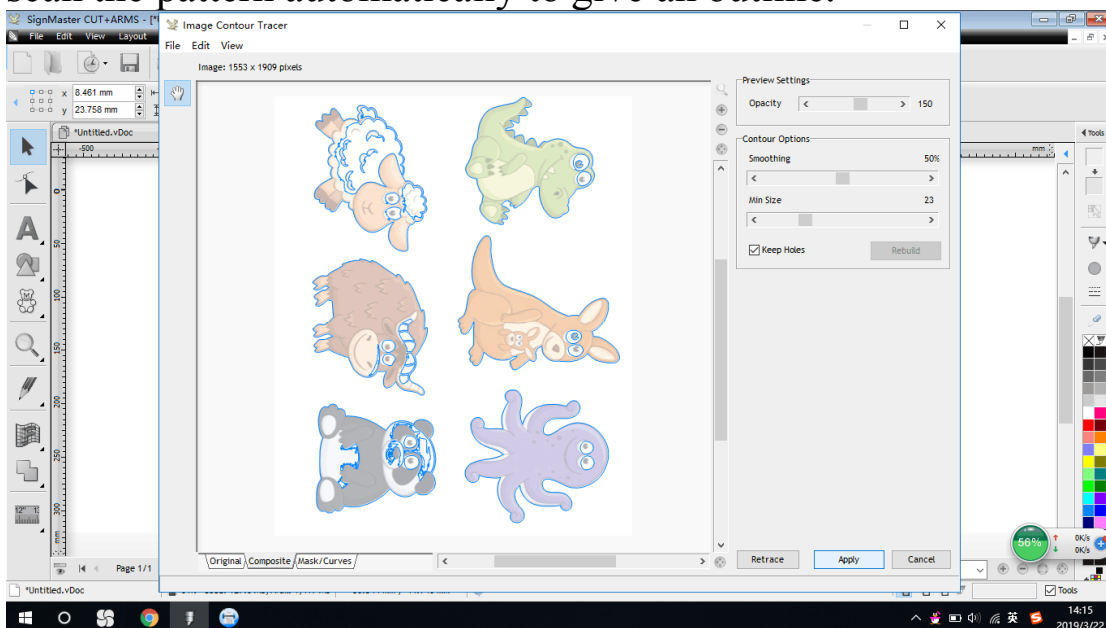


It will Show the screen as following:



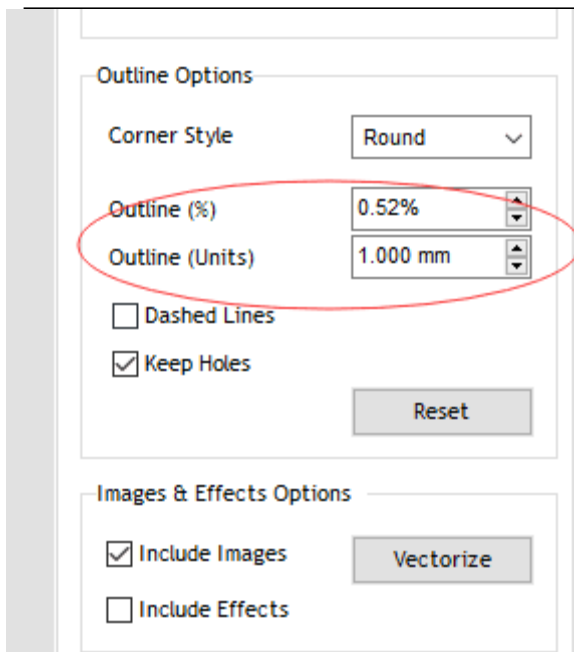


For pattern, it will need to click “Trace”. And then the software will start to scan the pattern automatically to give an outline.



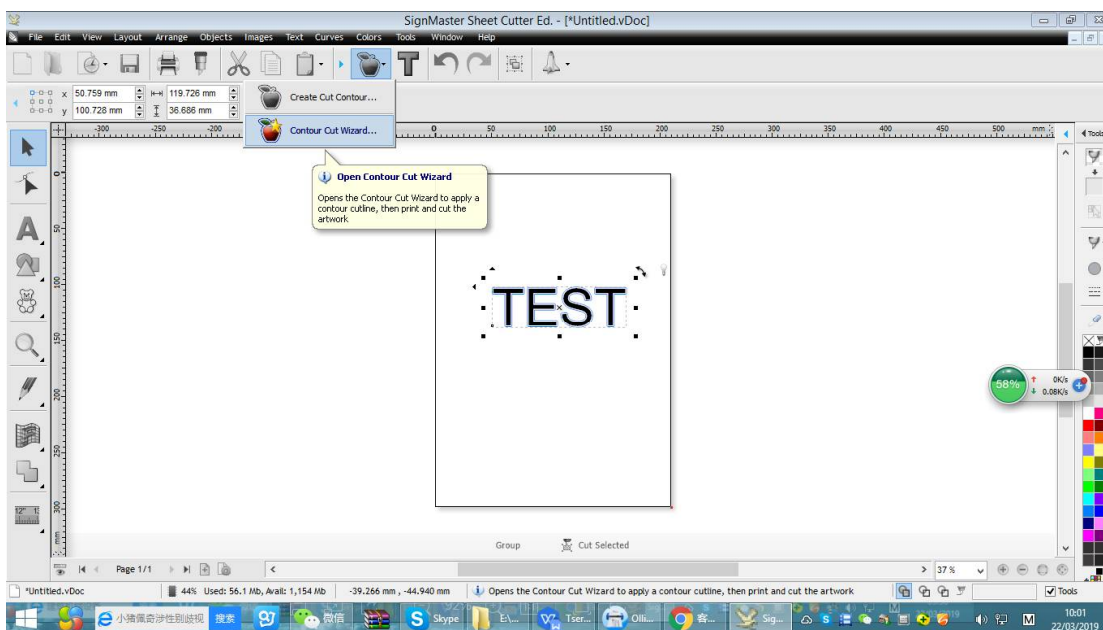
You can click “keep holes” or not according to your cutting job.

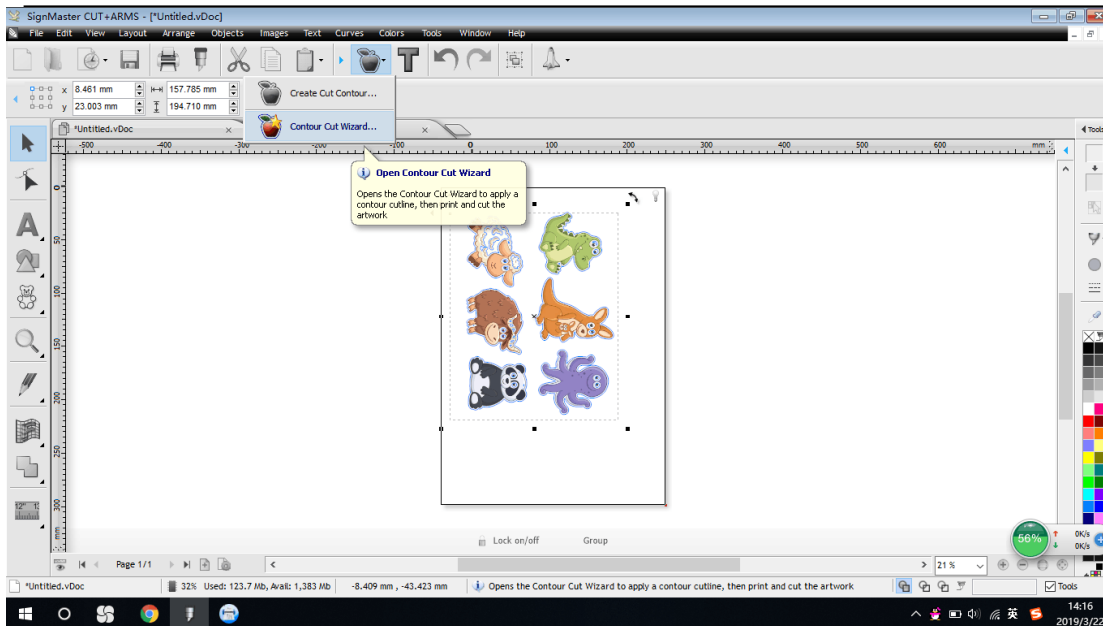
choose appropriate outline value (according to your work) and click the “accept” button , contour creation finished.



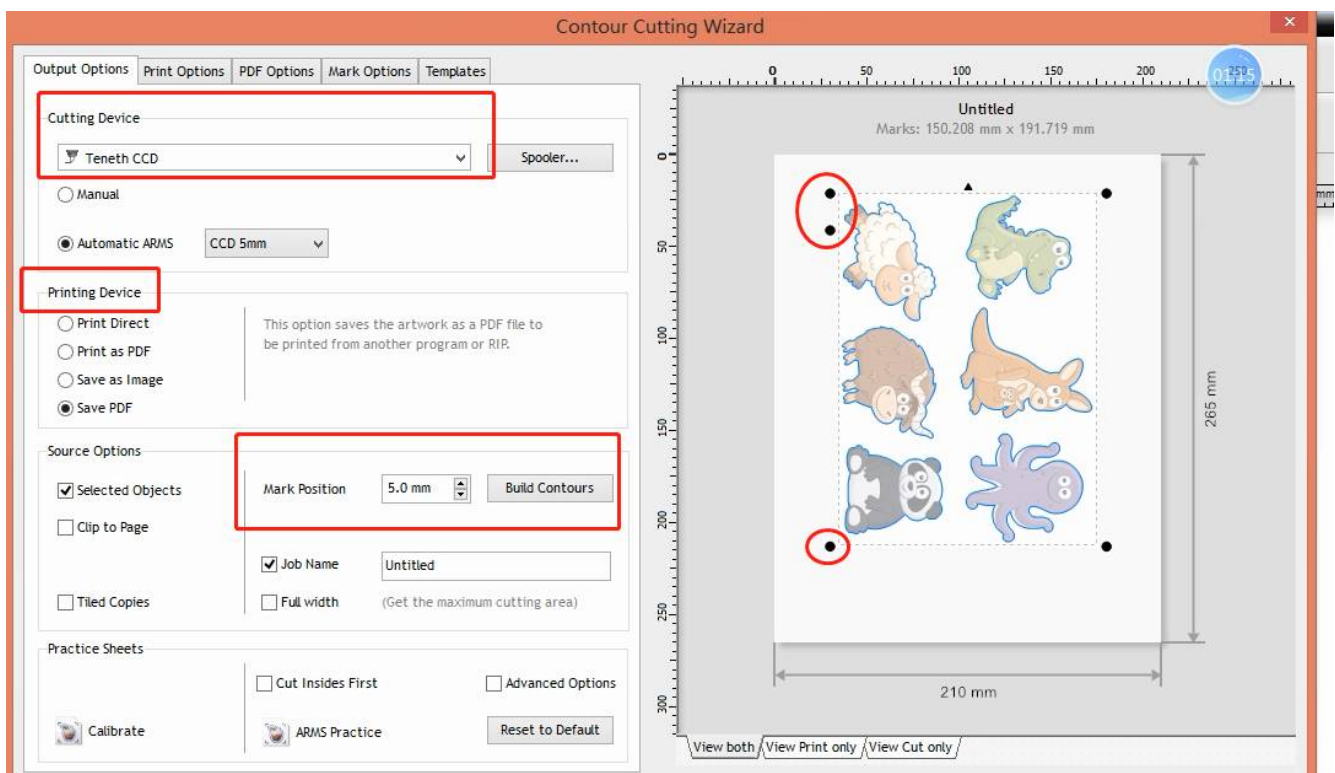
3. Add the registration marks

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.



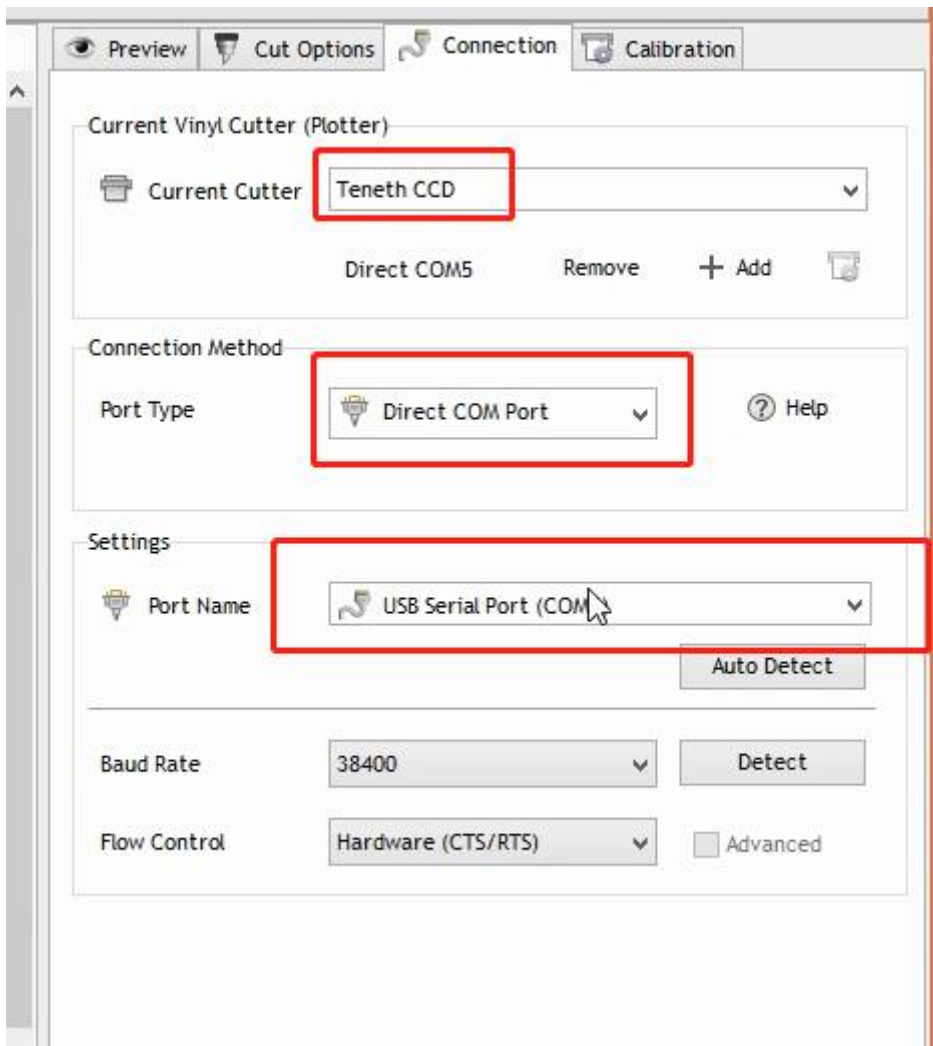
4. Print the Graphics

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”.

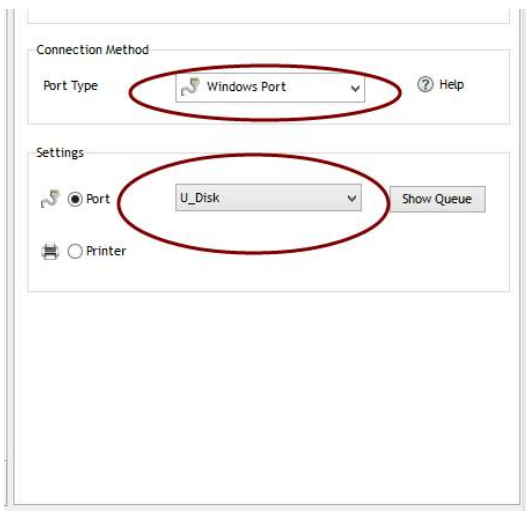
The “Setting”, select the port name. (If you insert the USB cable, it will show the cable name)

Or you can check the Computer Property.



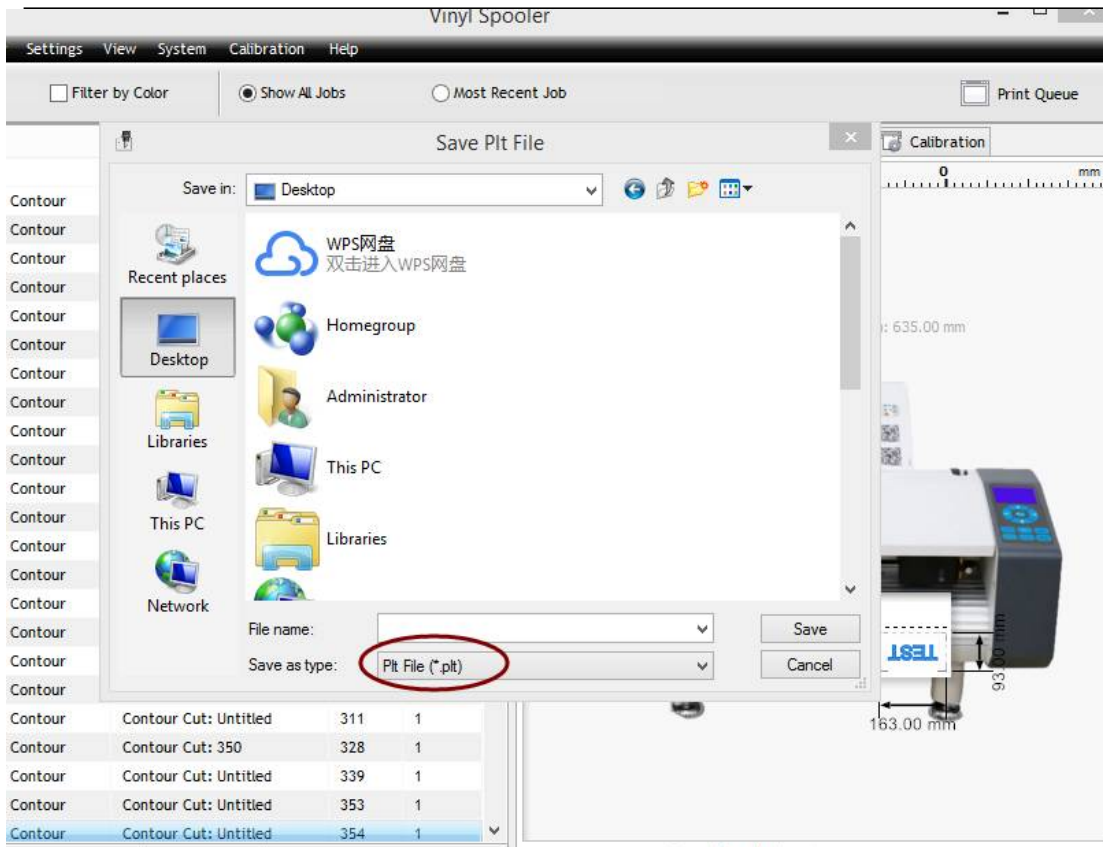
If you need to save to U disk. The “Port Type” choose “Windows port”, and then the port will show U disk.

U disk will save the pattern in .plt format.



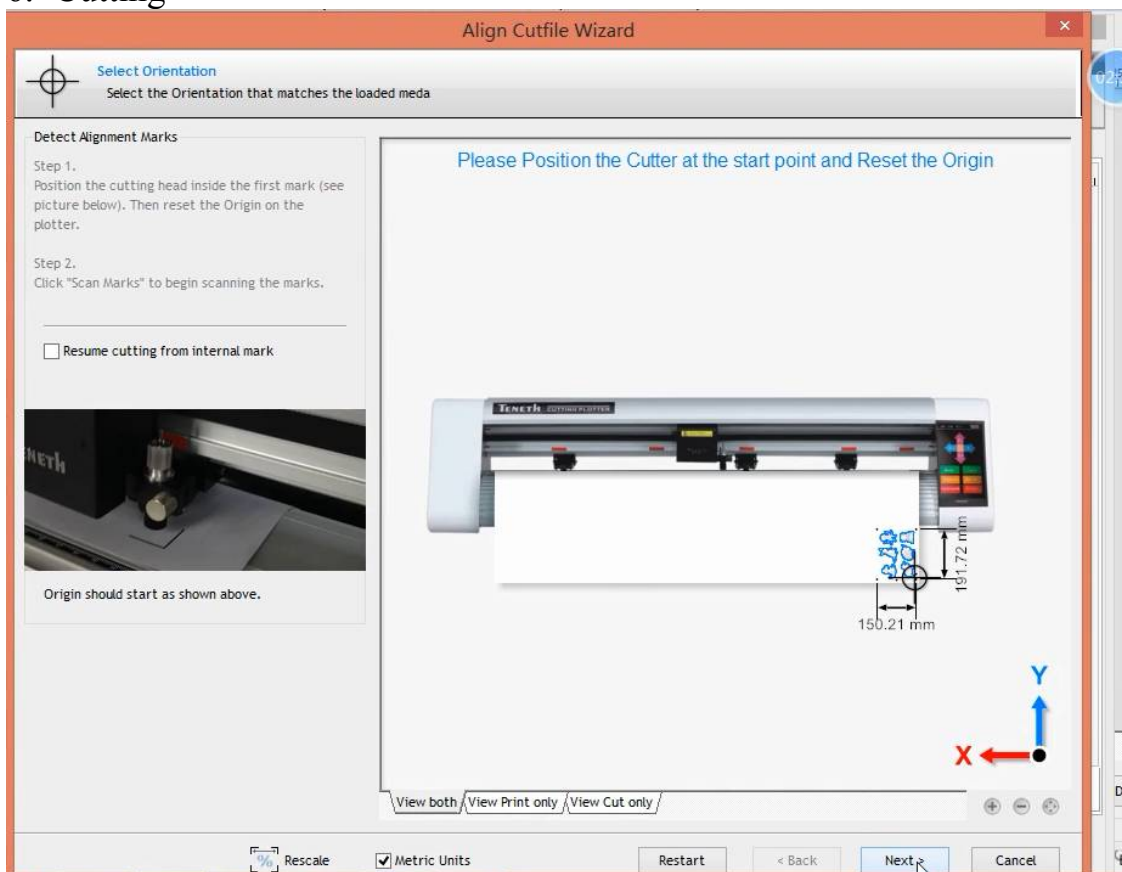
When finished all, click “done”.

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



Load the printout onto cutter, and take care of the **blade or pen setting position. (The blade holder or pen holder is on the first dot mark)**



And then send to cut. The machine will scan the mark detection.



Guide video please check inside the CD. (CCD-SM)