



Richpeace[®]

Inkjet Cutting Plotter

User's Manual

ENSURESAFEANDPROPERUSE	I
SAFEINFORMATION	II
CHAPTER I INTRODUCTION	1
1. 1 PRODUCT USAGE.....	1
1. 2 WORKING PRINCIPLE.....	1
1. 3 CHECK THE ACCESSORIES.....	1
1. 4 TECHNICAL PARAMETER.....	3
1. 5 STRUCTURE AND NAME.....	4
1. 6 MACHINE ASSEMBLY PROCEDURES.....	7
CHAPTER II BASIC SETTINGS AND OPERATIONS	12
2. 1 CUTTING PLOTTER CONTROL PANEL.....	12
2. 2 THE ZERO POINT.....	12
2. 3 AUTO PAPER FEEDING SETTINGS.....	13
2. 4 AIR PUMP (SUCTION) SWITCH.....	15
2. 5 DRAWING TEST IMAGES.....	15
2. 6 BLADE PRESSURE SETTINGS.....	16
2. 7 INKJET AND BLADE SPACE SETTINGS.....	17
2. 8 SPEED SETTINGS.....	18
2. 9 PARAMETERS SETTINGS.....	18
2. 10 XY LENGTH CORRECTION.....	23
2. 11 PAUSE / STOP WORKING.....	24
2. 12 HEAD RAPID POSITIONING.....	24
CHAPTER III OPERATION INTRODUCTIONS	25
3. 1 FILE.....	25
3. 2 TOOL.....	30
3. 3 LANGUAGE.....	33
3. 4 SETTING.....	33
CHAPTER IV FAULT HANDLING	37
4. 1 ERRORMESSAGE.....	37
4. 2 NOTES.....	37
CHAPTER V MACHINE HANDLING, STORAGE AND DAILY MAINTENANCE	39
5. 1 THE MACHINE HANDLING, STORAGE.....	39
5. 2 THE MACHINE DAILY MAINTENANCE.....	39

ENSURESAFEANDPROPERUSE

- In order to ensure safe and proper use, please read the manual carefully before running the machine.
- After reading, please keep it in the proper place available to get, so as to inquire it when needed.
- Children are forbidden to touch the machine.
- The below is safe operation explanations, please follow it strictly.

General Usage in the manual

In order to use the machine safely and accurately and avoid body injured and property damaged, the manual prescribes three kinds of safe notice. Please understand the differences.



Danger

The notice means DANGER, if ignored, it maybe cause deadliness or serious damage to operator.



Warning

The notice means WARNING, if ignored, it maybe cause deadliness or serious damage to operator.



Caution

The notice means CAUTION, if ignored, it maybe cause damage to operator or weaken physical capability of the machine.

Safety Symbols

	It means caution or warning, where it should be careful.
	It means the action should be prohibited in order to prevent the machine pinch wounding.
	It means the action should be prohibited when the machine running in order to prevent the machine pinch wounding.

SAFE INFORMATION

⚠ Warning

If the machine smoke, too hot, or strange smell, or other reasons cause the machine can't work normally, please stop using it. Turn off the power and unplug the power cable from the electrical outlet.

Continuing to use the machine under these situations might cause fire or electrical attack.

Make sure the machine is not smoking any longer, please contact the salesman or RICHPEACE authorized agent for maintaining.

Please don't maintain yourself. It is very dangerous to maintain by unfamiliar person.



Forbidden



It is forbidden to disassemble, maintain or refit the machine.

These actions might cause electrical attack or fire because of power leakage.

Touching the high voltage accessory of the machine might cause electrical attack.



Disassemble
Forbidden



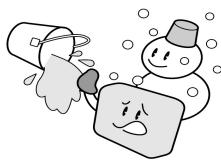
If maintenance needed, please contact the salesman or RICHPEACE authorized local agent.

Don't use the machine in the place where has water, rain and snow.

These places might cause electrical attack or fire because of power leakage.



Avoid water
Be careful,
Electrical attack

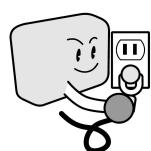


Ensure the machine is grounding.

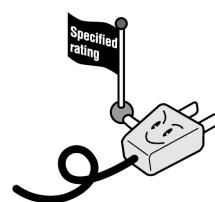
If it is not grounding, it might cause operator electrical attack because of power leakage.



Grounding



Forbidden



Don't connect the machine with non-stable power.

Using different power might cause electrical attack or fire because of power leakage.

Don't use the broken electrical wire.

Using the broken electrical wire might cause electrical attack or fire because of power leakage. Change it to a new electrical wire.



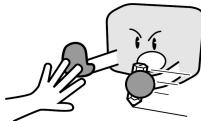
Don't let the dust and the metal material adhibit to the power plug.

The dirty power plug might cause the electrical attack or fire because of power leakage.



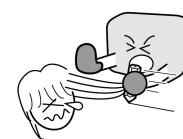
Don't touch the print head and other moving parts when plotting.

These actions might cause body injured.



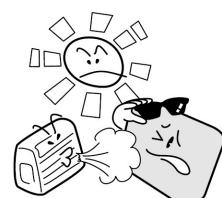
Even if the machine stop working, please keep hand and hair far away from the print head and other moving parts, as the machine may start moving suddenly after receiving the data.

These actions might cause body injured.



Don't use or store the machine under straight sunshine, or air conditioner or heater direct blowing.

These places might weaken the capability of the machine.



Don't use the machine at the place where is dusty or damp.



Using the machine in these places might weaken the capability of the machine.

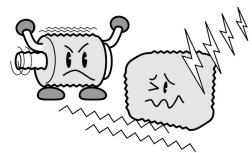
Be careful of
electrical attack

**Don't use the machine at the places where have
mechanical shake or electrical noise.**

Using the machine at these places might weaken the
capability of the machine.



Forbidden



**Don't put the container filling with the water or
other liquid on the machine.**

Liquid into the machine might cause electrical attack or
fire because of power leakage.



Avoid water



Be careful of
electrical attack

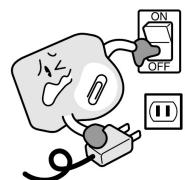


**If there are water or eyewinker in the machine, please
stop using. Turn off power, pull out the power cable
from the electrical outlet.**

Using the machine under these situations might cause
electrical attack or fire because of power leakage.



Pull out the
power cable



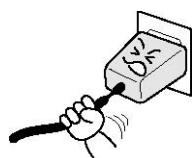
Please contact the salesman or RICHPEACE authorized local agent for maintaining.

**Don't pull forcibly, when pull out the power cable or connecting
wires.**

These actions might damage electrical wire and cause
electrical attack or fire.



Forbidden



Don't try to add lube into the machine.

These actions might cause the machine failure.



Forbidden



Don't use the thinner or gas to clean the machine.

These actions might weaken the capability of the machine.



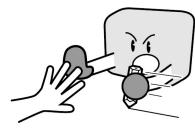
Forbidden



Ensure there is enough space for working, feeding paper or cutting.



Don't touch



When use indoor daylight lamp or other electrical light, please ensure there is at least 1m distance between the machine and the light.



That the distance is too close might cause sensor failure and can't measure the normal size of the medium.

Please move slowly, when need to move the printing head manually because of loading medium or other reasons.



Quick movement might damage the machine.

Chapter I Introduction

1.1 ProductUsage

This product (Inkjet Cutting Plotter) is mainly used for making patterns in clothing, shoes, luggage and handbags industry. From drawing lines, drawing designs, text marking to cutting could be finished in one process. Instead of traditional manual design and pattern making, it shorten the related research time and satisfy the production aim of less bulk, more orders and more styles.

1.2 WorkingPrinciple

Inkjet Cutting Plotter is being used to output digital patterns drawn by Computer Aided Design Software. Pre-defined pattern at required size is being drawn by ink jet printing heads on paper over the working platform, then cut out by the blade at the print head.

Initial parameters set up is required for newly installed machine, parameters include blade pressure, deviation distance, inkjet print and blade cut overlapping, inkjet mis-alignment tolerance, etc. After parameters are set up and saved, user can proceed with sample pattern cutting.

1. Start computer system Pattern Design Software (PDS), open the pattern file.
2. Output the pattern data to Inkjet Cutting Plotter by USB or network port through USB communication or CAT.5 network cables.
3. The Plotter will start working after receive the pattern data, first print out the pattern by inkjet print heads, then cut out the pattern by cutting blade until finish.
4. The Plotting Head will return to parking position after finish. Job done.

1.3 Check the Accessories

Refer to the standard accessory list as follows, check and ensure there is no missing in packing box. If there is any accessory missed, please contact the salesman or RICHPEACE authorized agent.

Power cable x 1	USB data cable x 1
	
Bolt M8*16, Flat& Spring Washer 22 sets (No extra screw.)	Hex Wrench MM6 / MM5, 1 set each
	
Ink Cartridge x 2	Manual book x 1 (On the CD)
	
Warranty Card x 1	Installation CD x 1
	

Whole machine includes parts as follow:	
Plotter head one set	Left & right stand one set
Paper feedingdevice one set	Exhaustfan one set
Paper holder one set two pieces	Bolt M6*20, Flat& Spring Washer 10 sets
Knife components one set	Cutting knife x 10

1.4 Technical Parameter

Inkjet Cutting Plotter Technical Parameters:

Type	RP-TM1512S-MJ,KC
Function	
Machine Dimension (mm)	2140 x 1690 x 1000
Cutting Speed(cm/s)	50
Cutting Thickness (mm)	≤2.0
Cutting Materials	Brown paper, hard paper board, etc
Cutting Tool	Rotating Blade
CuttingArea (mm)	1500 x 1200
Plotting Device	Inkjet Print Heads
Material Fix Method	Vacuum Suction
Data Port	USB, Ethernet
Buffer Size	Disposable fast transmission
Coding System	HPGL commands
Control Panel	LCD Screen and Keypad
Environmental Conditions required:	
Machine Voltage	AC220±22
Frequency	50±1
Pump Voltage	AC220±22
Temperature (°C)	-15~40
Humidity	Relative humidity is not more than 85% (25 °C)
Note: the working environment should be without strong magnetic field and electric field interference	

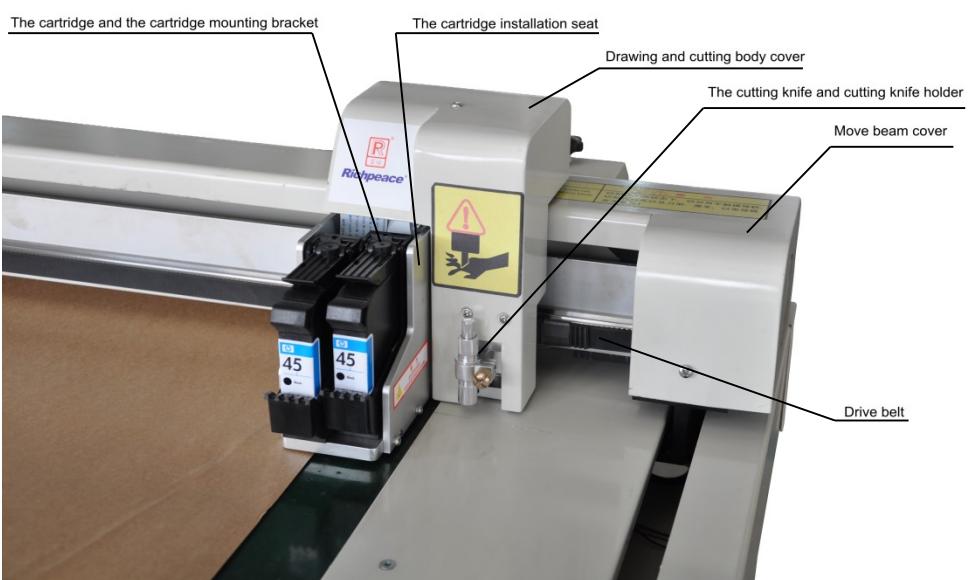
Main Features:

- ◆ Easy connection with USB.
- ◆ HP Inkjet Print Head technology, easy and convenient to replace

- ◆ Compatible with most popular brands of Garment CAD software outputted HP-GL format files.
- ◆ Easy to maintain.
- ◆ Servo motor ensure high speed plotting and smooth working.

1.5 Structure and name

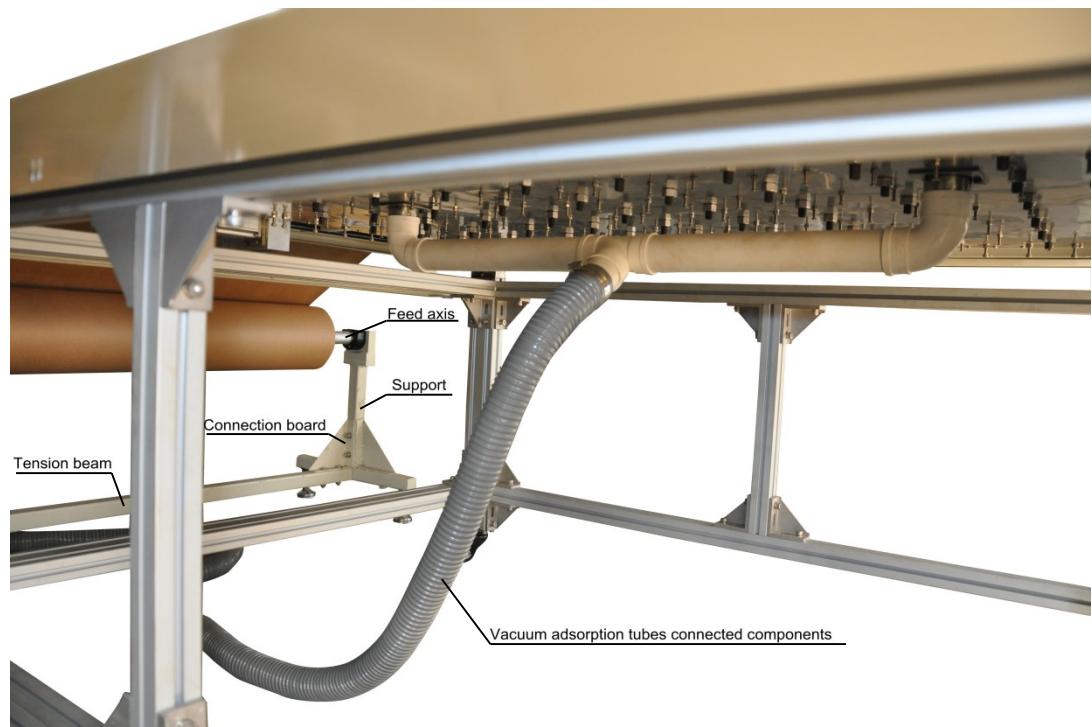
Front



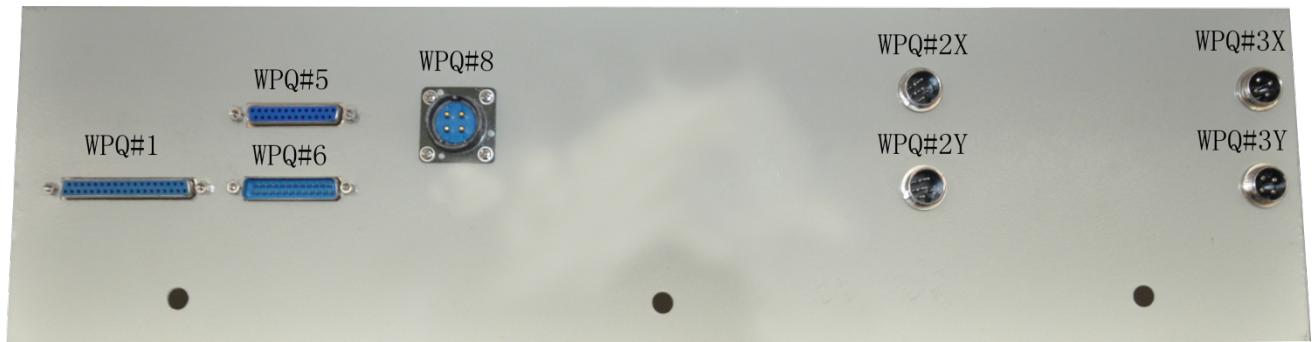
Feeding device



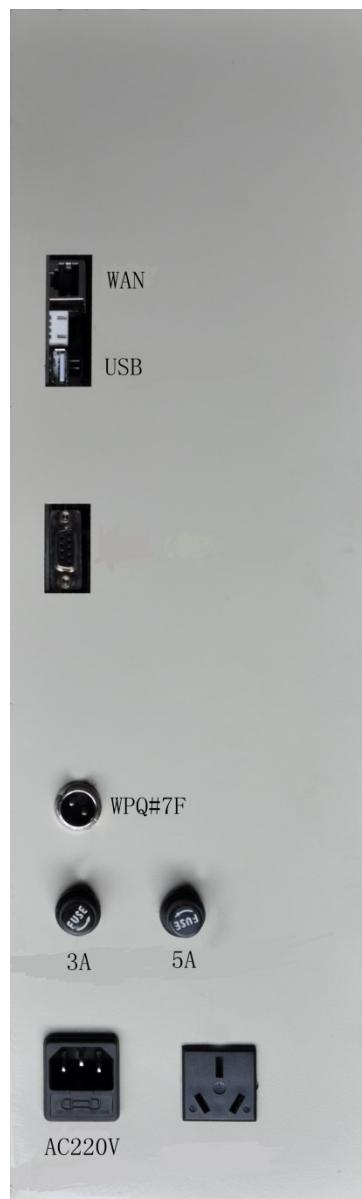
Paper Feed Device and Vacuum Suction Device



Electric box top view – connectorsdiagram

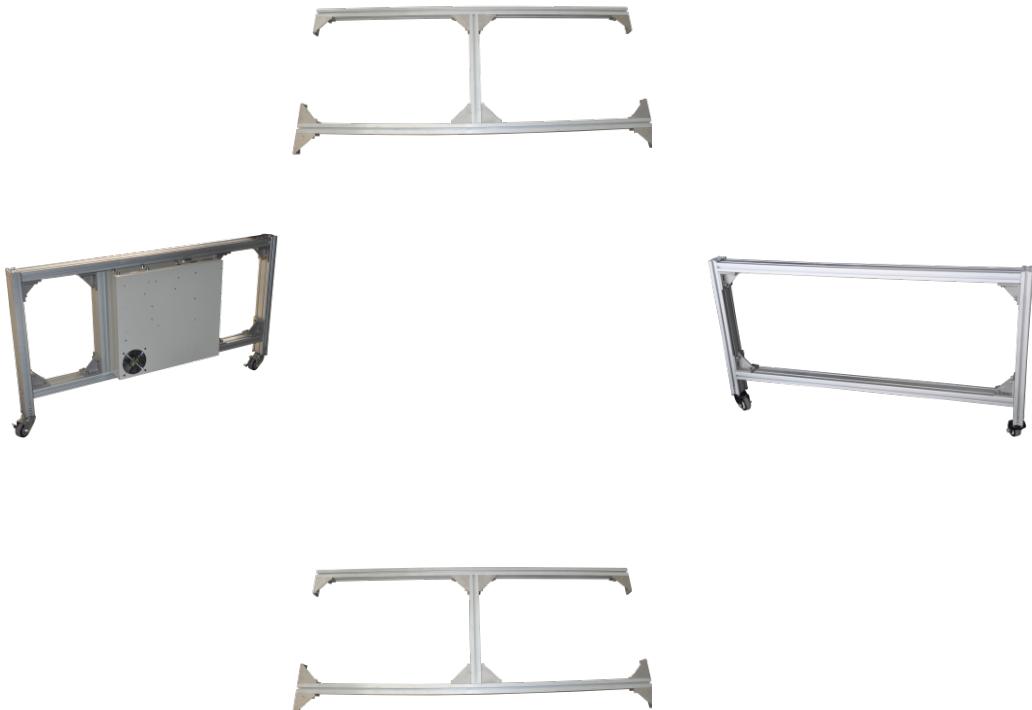


Electric box left -connectors diagram



1.6 Machine Assembly Procedures

Supporting Frame



- 1) Open the packing case, assemble the main supporting frames displaying above with bolts and washers, as shown in the figure below.



2) Supporting Frame assembly finishedpicture.



3) After assemble the supporting frame main body as shown in the picture above, load the machine main body on the supporting frame, fastening it with bolts and washers at four corners.



4) Assembly finished picture.



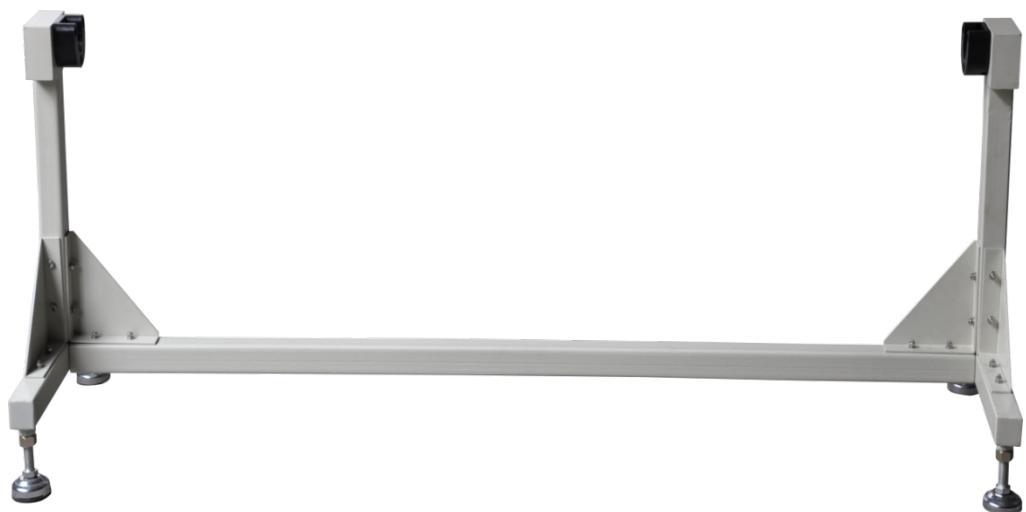
5) Take out below parts from packing case



6) Assemble as the below picture.



7) Assemble finished picture.



8) Load the paper-feeding shaft.



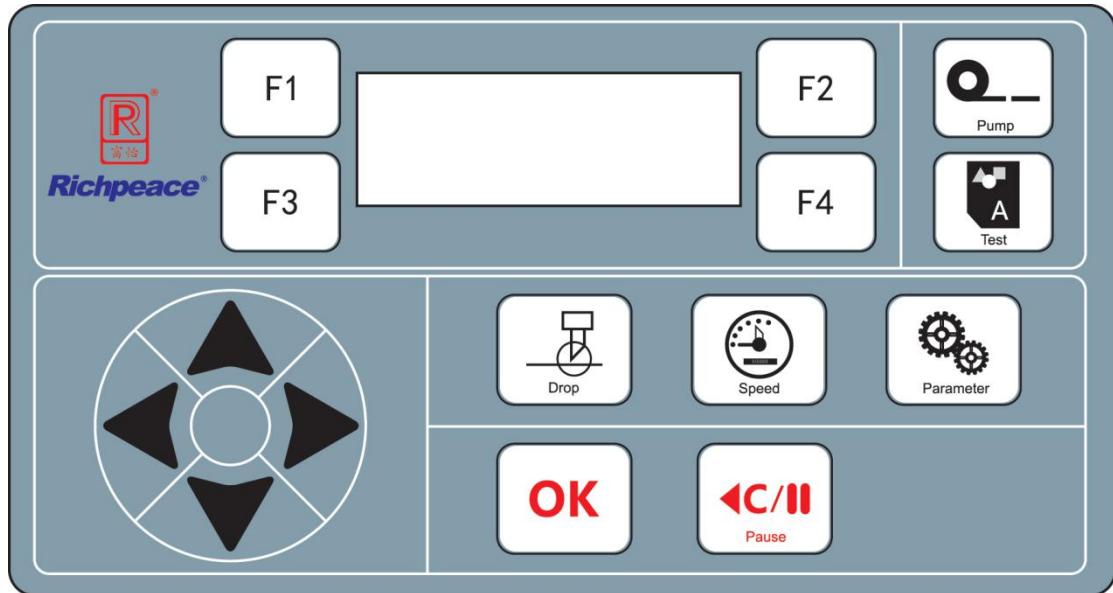
9) Put the power cable, USB cable and exhaust fan in the right position as shown in the picture below. Then load the paper. Do position adjustment until the paper is in the middle of the machine, and feeding paper smoothly.



All done, connect the machine to computer system, proceed with patterns plotting and cutting.

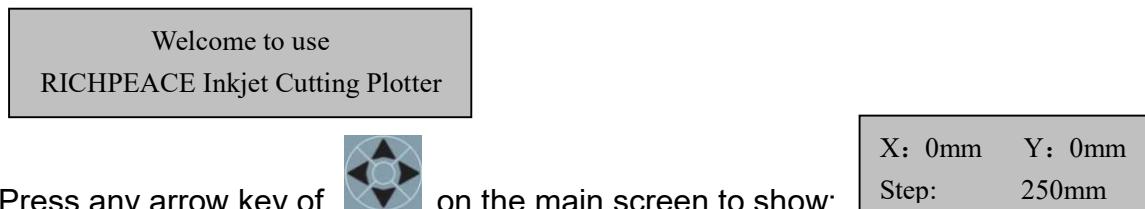
Chapter II Basic Settings and Operations

2.1 Cutting Plotter control panel



2.2 The Zero Point

Turn on the power switch. After moving the machine head to upper left corner, the LCD shows: (Hereinafter referred to as Main interface)



Follow the direction of the arrow to move the machine head:

Press **F3**, change the machine head moving distance when pressing arrow keys each time;

Press **OK**, set the current machine head position as the zero point and back to the Main interface;

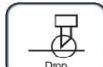
Press **C/II**, back to Maininterface.

Note: if the current setting zero point is X:100 Y:100, it is valid only for the current working task. When the working is over, if the next task doesn't change the zero point, it defaults X:0 Y:0 (lower right) coordinate to start working.

2.3 Auto Paper Feeding Settings

1. Press  on the main interface, the LCD shows:

Move Paper:
A

Press  , paper feeding length is 1/3 of the cutting plane length;

Press  , paper backing length is 1/3 of the cutting plane length; ;

Press  , paper feeding length is same as the cutting plane length;

Press  , cut paper at the current position;

Press  , press up to inch forward and press down to inch backward.

2. Press  once on the auto paper feeding interface, the LCD shows:

Paper feeding Offset:
10mm

Press  , parameter plus 1;

Press  , parameter plus 10;

Press  , parameter minus 1;

Press  , parameter minus 10;

Press  , save and back to the auto paper feeding interface;



Press **Cutter/Stop**, back to the auto paper feeding interface.

3. Press **F4** twice on the auto paper feeding interface, the LCD shows:

Paper Moving Speed:

Medium

Press **▲ ▼**, switch parameter “Low/Medium/High speed”;

Press **◀ ▶**, switch parameter “High/Medium/Low speed”;



Press **OK**, save and back to the auto paper feeding interface;



Press **Cutter/Stop**, back to the auto paper feeding interface.

4. Press **F4** three times on the auto paper feeding interface, the LCD shows:

Pause Time:

10S

Used for setting the delay time in the end of cutting and plotting.

Press **▲**, parameter plus 1;

Press **▼**, parameter plus 10;

Press **▼**, parameter minus 1;

Press **◀**, parameter minus 10;



Press **OK**, save and back to the auto paper feeding interface;



Press **Cutter/Stop**, back to the auto paper feeding interface.

5. Press **F4** four times on the auto paper feeding interface, the LCD shows:

Auto Cut OFF:

OFF

Used for setting the stop position of the machine head in the end of cutting and plotting.

Press , switch parameter “ON/OFF/OFF2”;

Press , switch parameter “OFF2 /OFF/ON”;

Press , save and back to the auto paper feeding interface;

Press , back to the auto paper feeding interface.

2.4 Air Pump (Suction) Switch

1. Short press  on the main interface to switch air pump manually.

2. Long press  on the main interface to show:

Press  or  to select ON to open automatic air pump suction;
OFF to close automatic air pump suction;

Press  or  to select ON to close automatic air pump suction,
select OFF to open automatic air pump suction.

Press , save and back to the main interface;

Press , back to the main interface.

2.5 Drawing Test Images

Press  on the main interface and the LCD shows:

Print Test
OK :Print

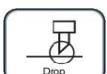
Used to detect whether the ink cartridge are clogged, which determines whether the ink cartridge should be clean or replaced.

Drawing test images, start testing from the lower right.

Press  **OK**, print text image;

Press  **C/I**, back to the main interface.

2.6 Blade Pressure Settings

1. Press  once on the main interface, the LCD shows:

Cut Press: #4
108 CUT

Adjust current blade pressure (adjust according to the thicknesses of different materials)

Press  **▲**, blade pressure plus 1;

Press  **▶**, blade pressure plus 10;

Press  **▼**, blade pressure minus 1;

Press  **◀**, blade pressure minus 10;

Press  **F1**, modify the number of blade;

Press  **A Test**, test blade pressure (cut a small rectangle with the blade around the bottom right corner) until it just cuts off the paper;

Press  **OK**, save and exit;

Press  **C/I**, exit.

2. Blade Attribute Settings

Press  twice on the main interface, the LCD shows:

Cut Attribute:
4# CUT

Change current blade attribute: Blade cutting- Cut, Rotation cutting-Cut*

Press  **▲**, number of pen plus 1;

Press , number of pen minus 1;

Press  to change pen blade attribute: Blade cutting- Cut, Rotation cutting-Cut*;

Press , save and back to the main interface;

Press , back to the main interface.

2.7 Inkjet and Blade Space Settings

Press  on the main interface, the LCD shows:

Inkjet and blade space setting
Y: 618

Sets the spacing between the blade and No.1 ink cartridge. 1mm per 8 units.

Press , change X and y settings

Press , parameter plus 1;

Press , parameter plus 10;

Press , parameter minus 1;

Press , parameter minus 10;

Press , start testing the spacing between inkjet and blade in the upper right;

Press , save and back to the main interface;

Press , back to the main interface.

2.8 Speed Settings



1. Press once on the main interface, the LCD shows:

Cut Speed :
Medium

Pres to set cutting speed :
Low/Medium-low/Medium/Medium-high/High speed;



Press , save and back to the main interface.



Press , back to the main interface.



2. Press twice on the main interface, LCD shows:

Pres to set cutting speed :
Low/Medium-low/Medium/Medium-high/High speed;



Press , save and back to the main interface;



Press , back to the main interface.

2.9 Parameters Settings

1. Offset Settings



Press on the main interface, the LCD shows:

Offset:
70

Offset distance of compensating for the rotation angle, 1mm per 40 units.

Press , blade offset plus 1;

Press , blade offset plus 1;

Press , blade offset minus 1;

Press , blade offset minus 10;

Press , save and back to the main interface;

Press , back to the main interface.

2.Lifting blade extension value



2.1 Press  two times on the main interface, the LCD shows:

Lifting bladeExtension:
60

Extend the value, then lift the blade.40 units 1mm.

Press , parameter plus 1;

Press , parameter plus 10;

Press , parameter minus 1;

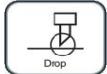
Press , parameter minus 10;

Press , save and back to the main interface;

Press , back to the main interface.

2.2 Lifting blade in the corner extension value



Press  under the blade lifting extension value, the LCD shows:

Cut*Extension:
8

Set extending blade dropping length when it lifted in the corner, 8 units 1mm.

Press , parameter plus 1;

Press , parameter plus 10;

Press , parameter minus 1;

Press , parameter minus 10;

Press  **OK**, save and back to the main interface;

Press  **C/II**, back to the main interface.

3. Cutting Head Stopping Point

Press  three times on the main interface, the LCD shows:

Stop position:
Lower Right

Used to set the machine head stop position when the plotting & cutting is over. When "auto back to end point" under the menu of "auto paper feeding setting" is off, this parameter setting is valid.

Press   to set parameter as: "Lower Right/Upper Right".

Press  **OK**, save and back to the main interface;

Press  **C/II**, back to the main interface.

4. Machine model settings

Press  four times on the main interface, the LCD shows:

Machine Model:
1512

Change the machine model

Press   to change the machine model : 0906 (923×618mm), 1209 (1225×920mm), 1509 (1500×920mm), 1512 (1500×1200mm), 1812 (1800×1200mm);

Press  **OK**, save and back to the main interface;

Press  back to the main interface.

5.Network Management

Press  five times on the main interface, the LCD shows:

Network
manage

Press  back to the main interface.

5.1 IP Address Settings

Press  on the network management interface, the LCD shows:

*
192.168.1.116

Press , ** Positioned to the left parameter segment needs to be modified;

Press , ** Positioned to the right parameter segment needs to be modified;

Press , parameter plus 1;

Press , parameter plus 10;

Press , parameter minus 1;

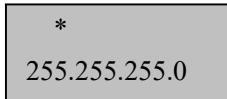
Press , parameter minus 10;

Press , save and back to the network management interface;

Press  back to the network management interface.

5.2 Subnet Mask Settings

Press  on the network management interface, the LCD shows:



Press , “*” Positioned to the left parameter segment needs to be modified;

Press , “*” Positioned to the right parameter segment needs to be modified;

Press , parameter plus 1;

Press , parameter plus 10;

Press , parameter minus 1;

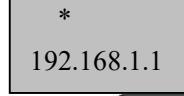
Press , parameter minus 10;

Press , save and back to the network management interface;

Press , back to the network management interface.

5.3 Gateway Settings

Press  on the network management interface, the LCD shows:



Press , “*” Positioned to the left parameter segment needs to be modified;

Press , “*” Positioned to the right parameter segment needs to be modified;

Press , parameter plus 1;

Press , parameter plus 10;

Press , parameter minus 1;

Press , parameter minus 10;

Press , save and back to the network management interface;

Press , back to the network management interface.

6.Language

Press  six times on the main interface, the LCD shows:

Language:
F3:中文 F4:En

Press , select Chinese; Press , select English;

Press , save and back to the main interface.

7.View the Software Version and Date

Press  six times on the main interface, the LCD shows:

Ver:V1.00
Date:13/12/10

Press , save and back to the main interface.

2.10 XY Length Correction

Press  on the main interface, the LCD shows:

X Correction:
100

1 unit 0.025mm.

Press , change the correction of X and Y;

Press , parameter plus 1;

Press , parameter plus 10;

Press , parameter minus 1;

Press , parameter minus 10;

Press  **OK**, save and back to the main interface;

Press  **C/II**, back to the main interface.

2.11 Pause / Stop Working

Under working condition, press  **C/II** once on the main interface to pause current work, press  **OK** to recover current work, press  **C/II** twice to cancel current work.

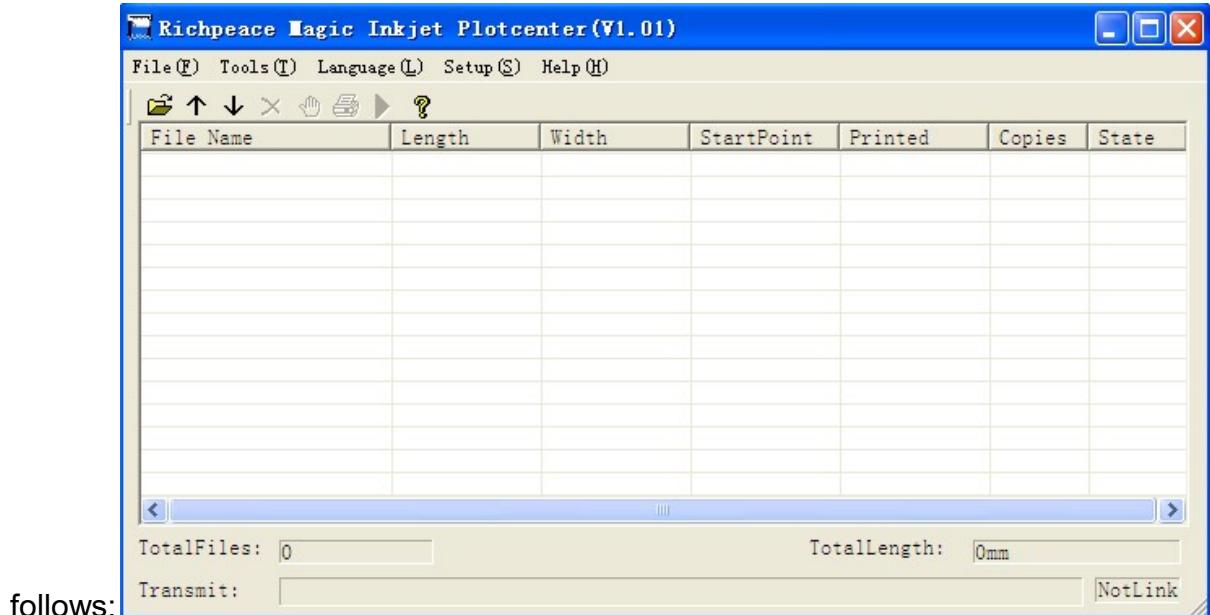
2.12 Head Rapid Positioning

Press  **F1** once on the Main interface, if the machine head is on the upper left, then it

will move to the upper right; press  **F1** again, if it is on the upper right, then the head will move to the lower right.

Chapter III Operation Introductions

Start Plotting & Cutting center main interface, as



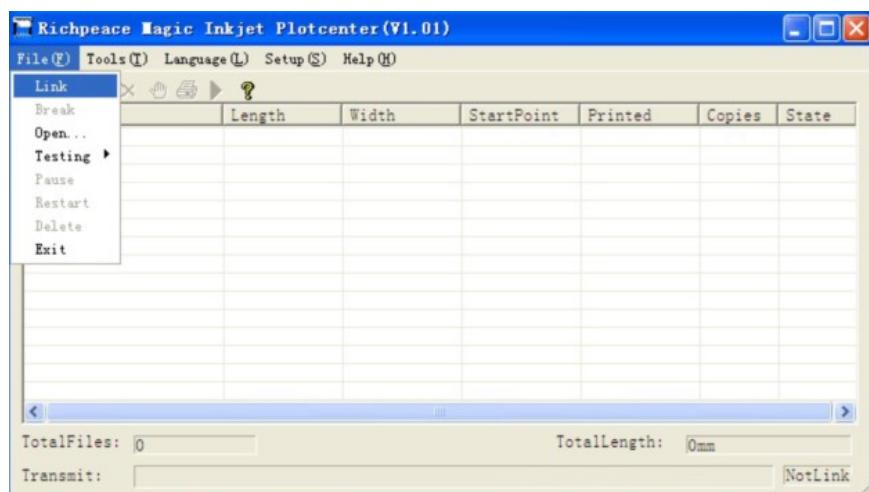
follows:

3.1 File

1. Establish connection: connect plotting & cutting center with inkjet cutting plotter through USB cable or ethernet cable (select port from "setup"- "communication setting")

The steps are as follows:

Click "Establish connecting" under the menu of "File". Plotting & cutting center will try to connect with inkjet cutting plotter.



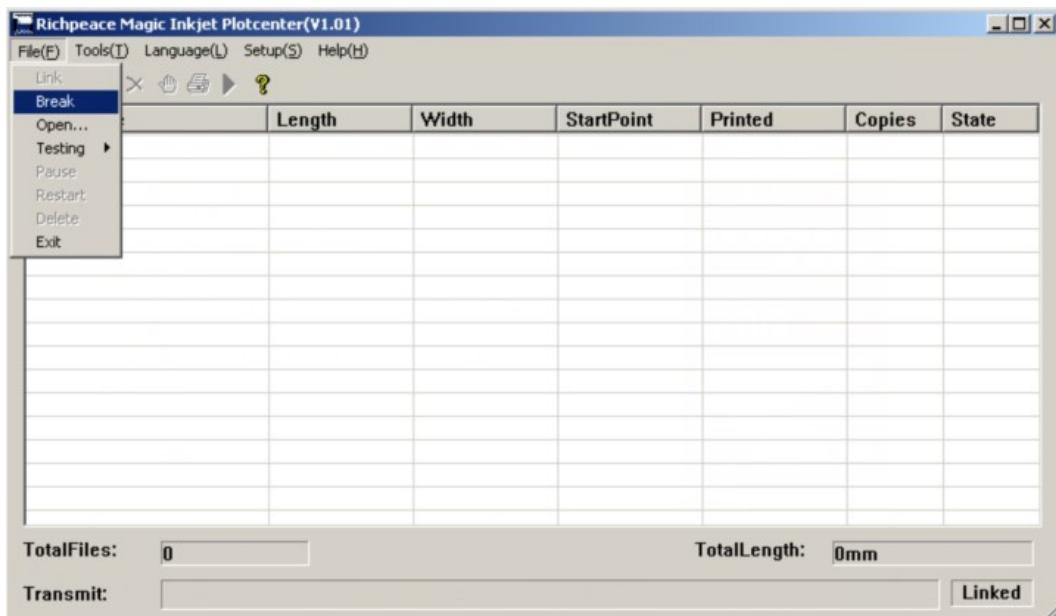
If connecting failed, the prompt dialog box will appear, modify network setting and connect again. If the current USB connection failed, check whether USB port and data cable connecting is ok, restart plotting & cutting center and connect again. If succeed, "establishing connection" become grey; meanwhile, display "connected"(means network connection succeed) or "USB" (means USB connection succeed) in the lower right of the plotting & cutting center interface:



2. Disconnect: disconnect the plotting & cutting center with inkjet cutting plotter.

The steps are as follows:

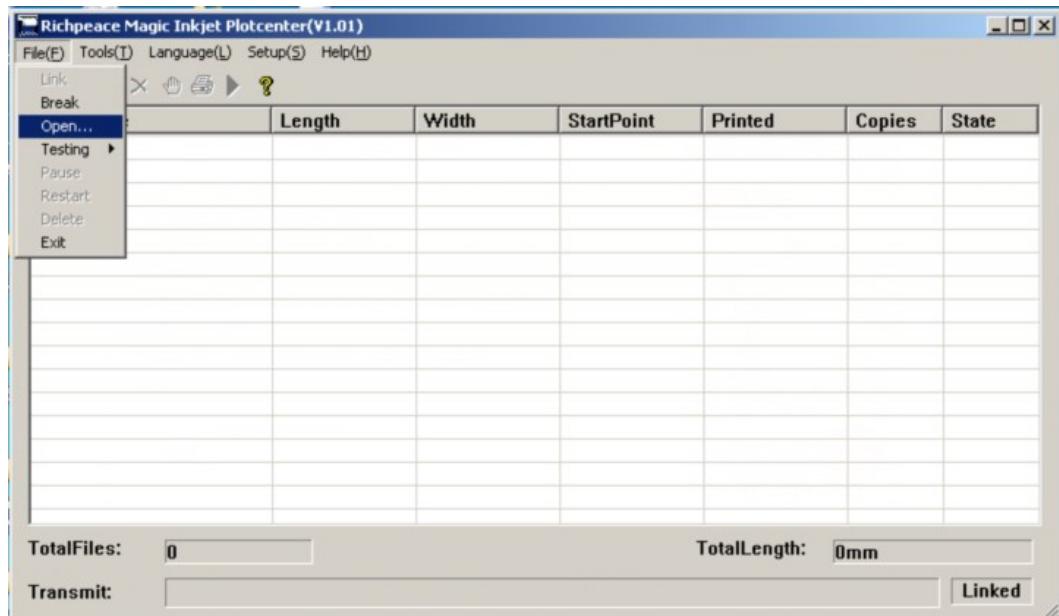
Click 'disconnect' under the menu of "plotting". Disconnect plotting center with inkjet plotter.



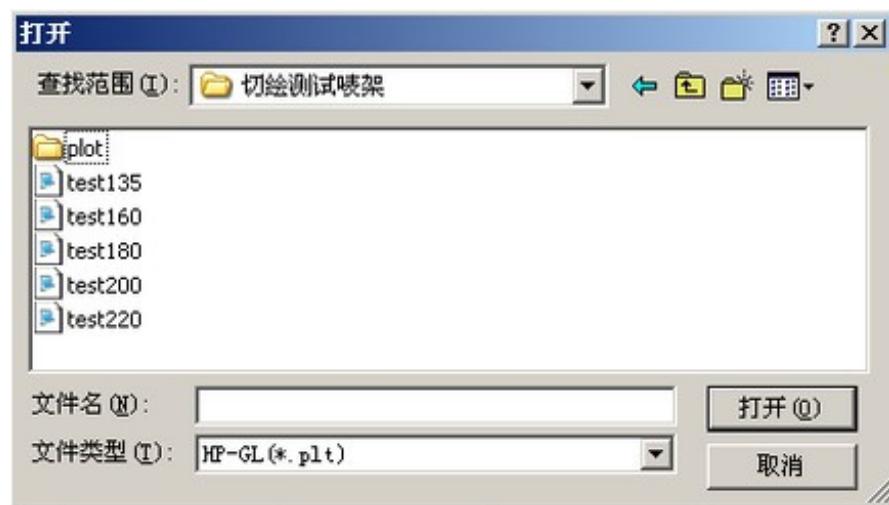
3. Open: open HPGL files

The steps are as follows:

(1) Click "open" under the menu of "files":

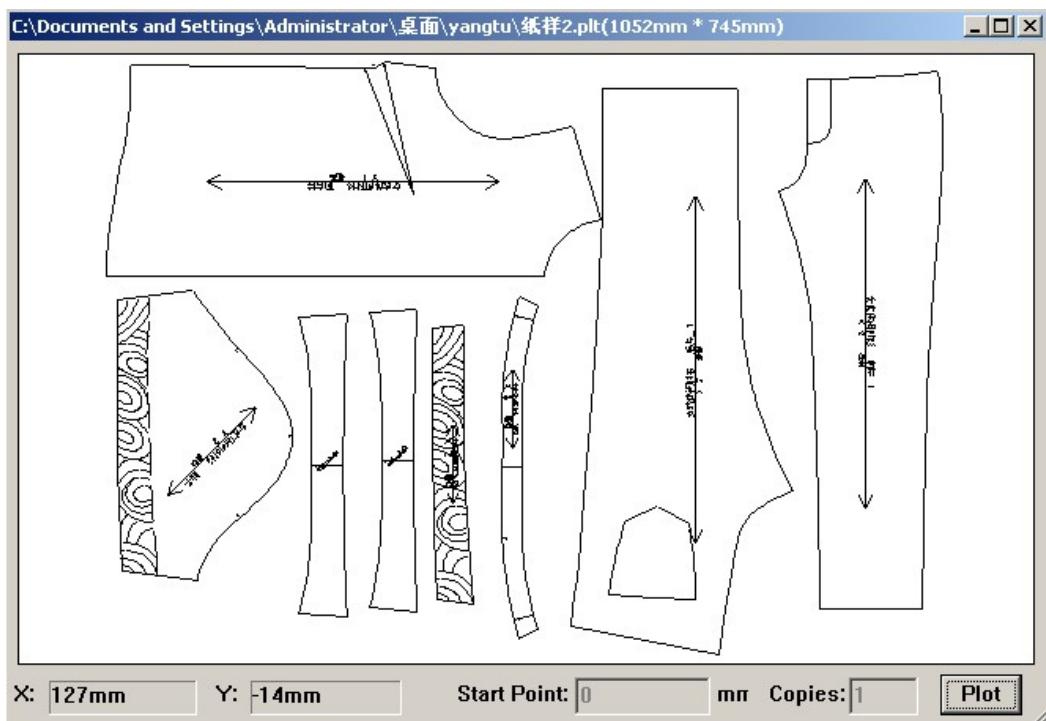


(2) Click “open”, the following dialog box appears, and select the files need to print.



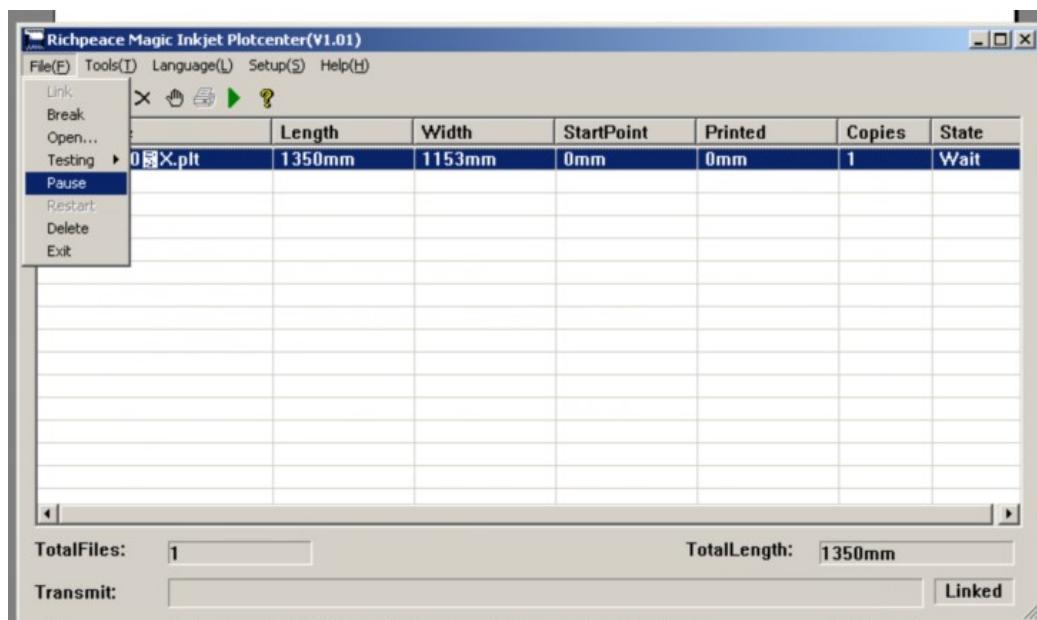
(3) Open the file, the following figure appears:

Plotting: add to the plotting & cutting queue

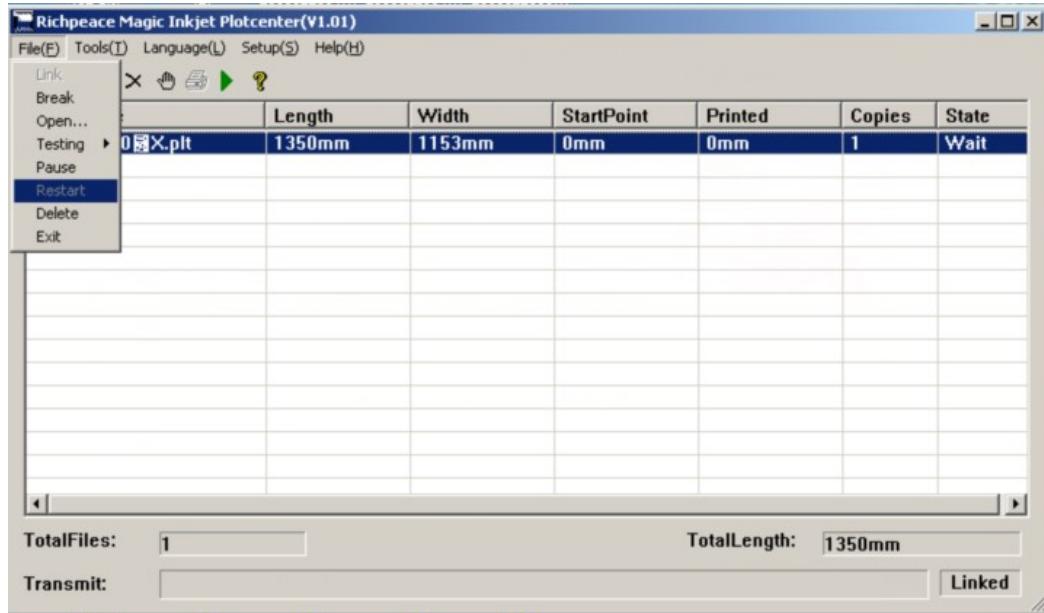


4. Pause: pause the data which has been sent to plotting & cutting center. It is impossible to pause the data which is being transmitted.

Select the files need to pause, and click “Pause”.



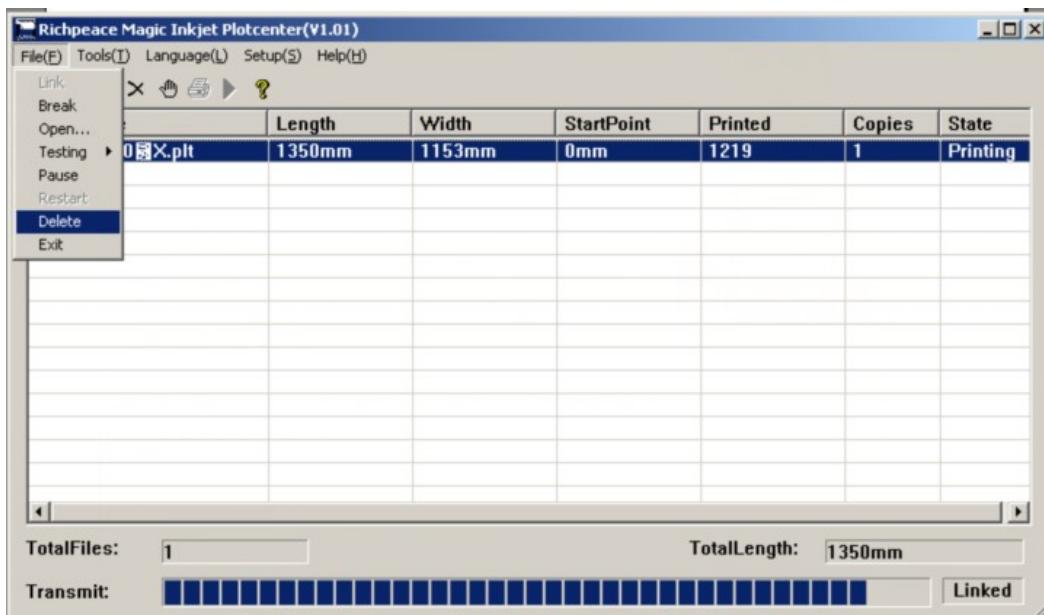
5. Start: start plotting & cutting paused files.



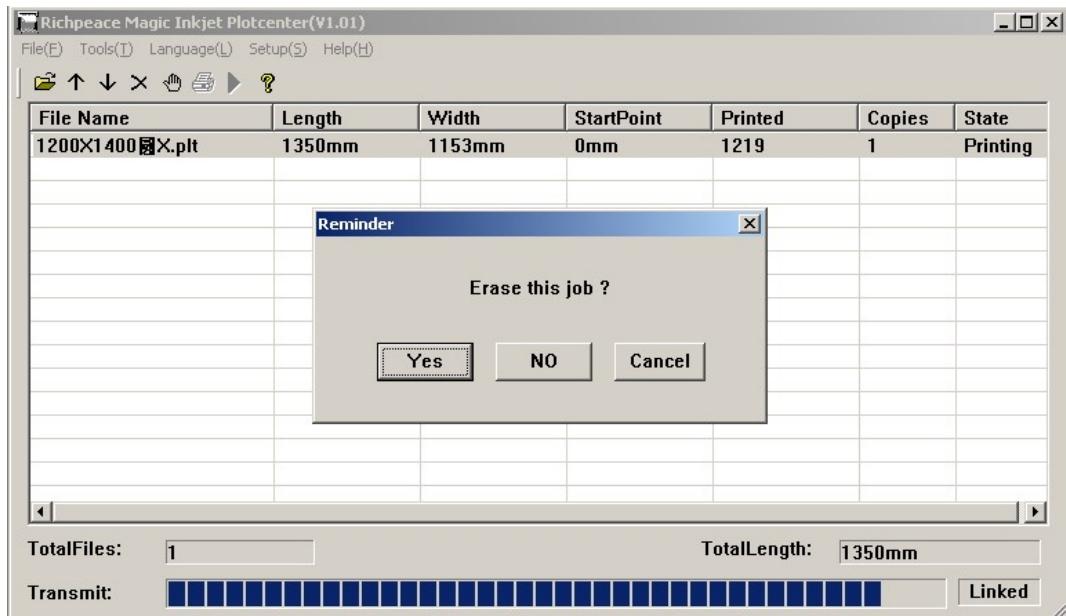
6. Delete: delete the files in plotting & cutting center. If the files are printing, the machine would stop working automatically.

The steps are as follows:

(1) 'Click 'Delete' under the menu of 'plotting'



(2) Click "Delete", pop-up the following dialog box:

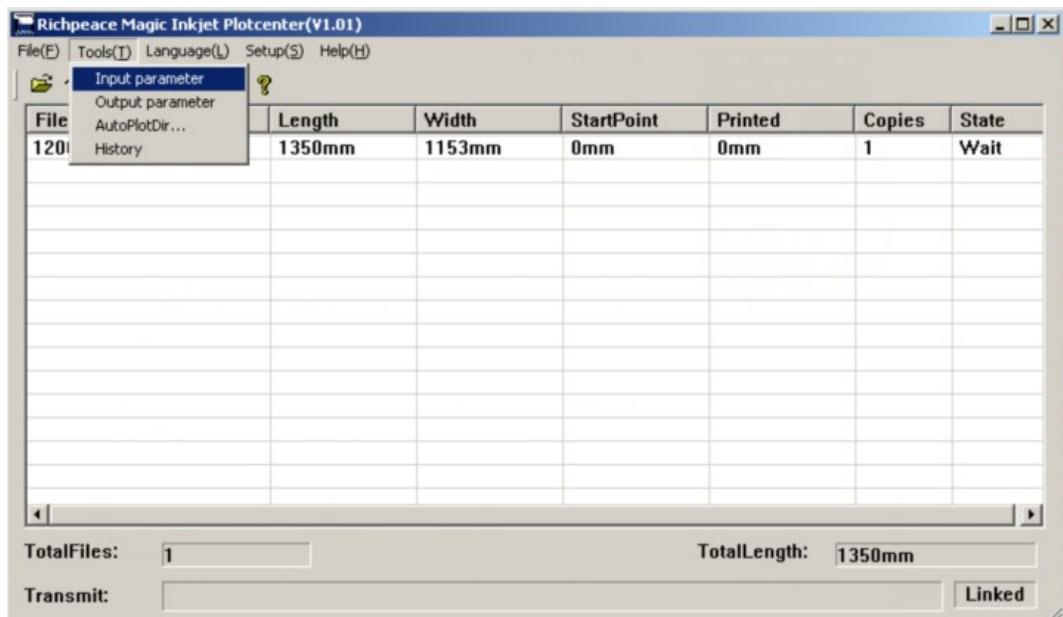


(3) Click ' Yes ', delete the specified files; click ' No ', not remove any files.

3.2 Tool

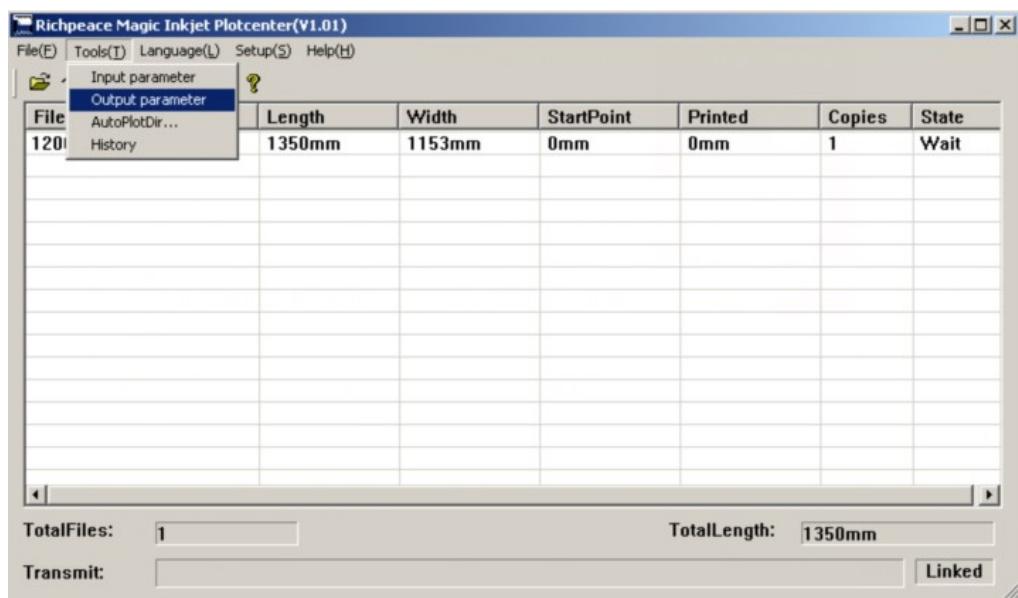
1. Parameter import

Click “parameter import” under the menu of “tool”, import the parameter setting in PlotPara.ini in plotting & cutting center folder into main board.



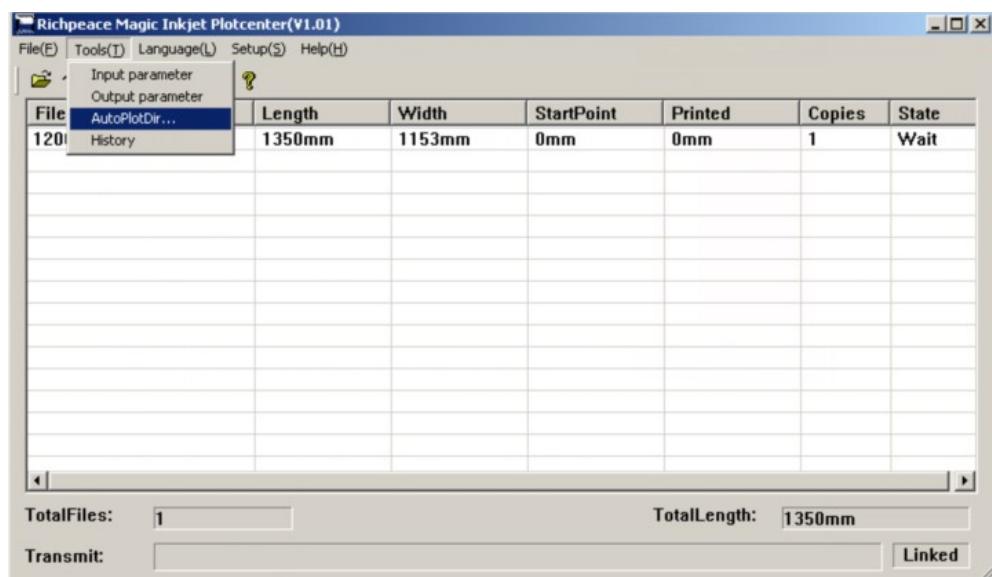
2. Parameter export

Click “parameter export” under the menu of “tool”, export the parameter setting in main board into PlotPara.ini in plotting & cutting center folder.



3. Automatic plotting directory

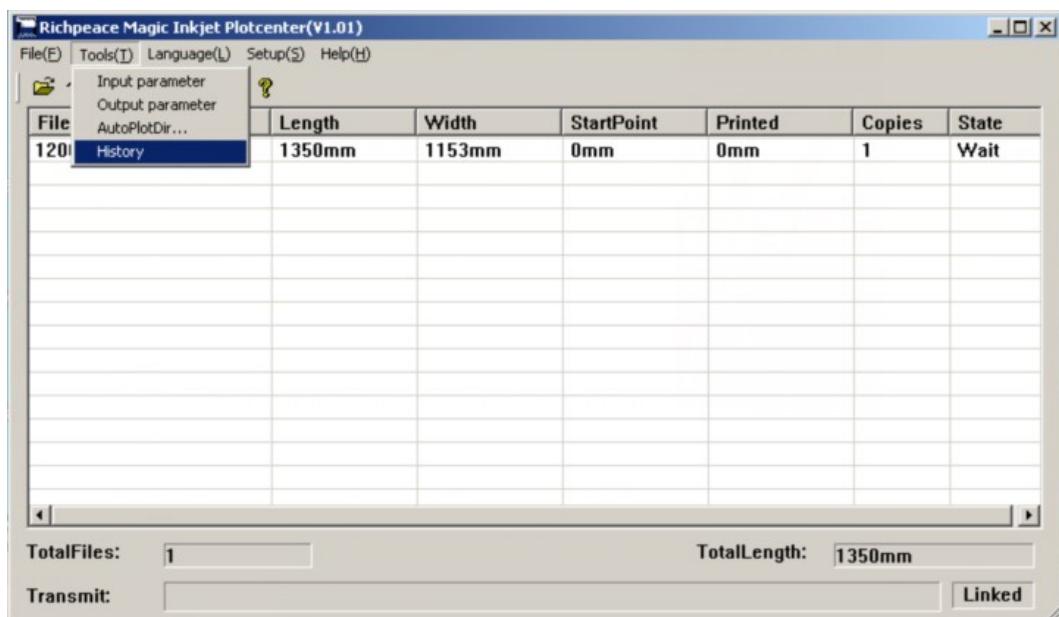
Click 'Automatic plotting directory', choose any folder as a list of automatic plotting. All the files sent to this folder would be appeared in plotting & cutting center, and printed out.





4. History

Click 'history', view all plotting record.



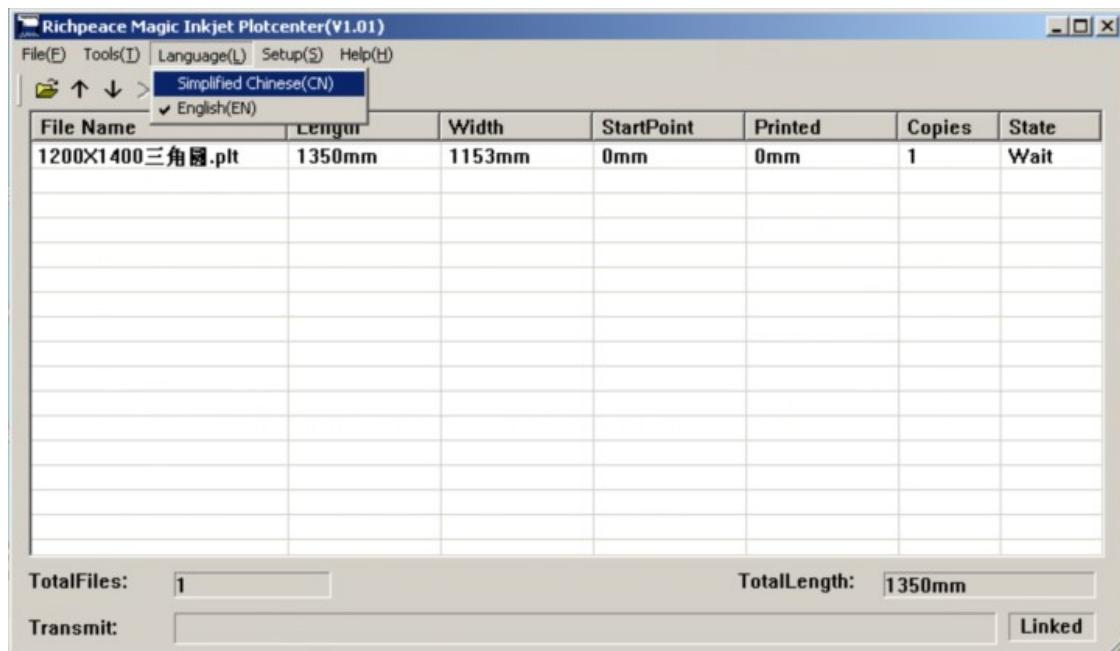
History

File Name	Start Date/Time	End Time	Percent
C:\Documents and Settings\Admini...	2013-9-17 14:20:53	14:20:54	100.00%
C:\Documents and Settings\Admini...	2013-9-17 14:25:34	14:25:35	100.00%
C:\Documents and Settings\Admini...	2013-9-17 14:29:43	14:29:44	100.00%
C:\Documents and Settings\Admini...	2013-9-17 14:35:35	14:35:35	100.00%
C:\Documents and Settings\Admini...	2013-9-17 14:37:6	14:37:7	100.00%
C:\Documents and Settings\Admini...	2013-9-17 14:46:40	14:46:41	100.00%
C:\Documents and Settings\Admini...	2013-9-17 14:50:35	14:50:36	100.00%
C:\Documents and Settings\Admini...	2013-9-17 15:2:58	15:2:59	100.00%
C:\Documents and Settings\Admini...	2013-9-17 15:5:21	15:5:22	100.00%
C:\Documents and Settings\Admini...	2013-9-17 15:15:46	15:15:47	100.00%
C:\Documents and Settings\Admini...	2013-9-17 15:18:42	15:18:43	100.00%
C:\Documents and Settings\Admini...	2013-9-17 15:34:1	15:34:2	100.00%
C:\Documents and Settings\Admini...	2013-9-17 15:36:2	15:36:3	100.00%
C:\Documents and Settings\Admini...	2013-9-17 15:40:8	15:40:9	100.00%
C:\Documents and Settings\Admini...	2013-9-17 15:48:17	15:48:18	100.00%
C:\Documents and Settings\Admini...	2013-9-17 15:55:45	15:55:57	0.00%
C:\Documents and Settings\Admini...	2013-9-17 16:11:52	16:12:16	0.00%

Plot Clear Cancel

3.3 Language

There are two languages “CHINESE” and “ENGLISH” in plotting & cutting center.

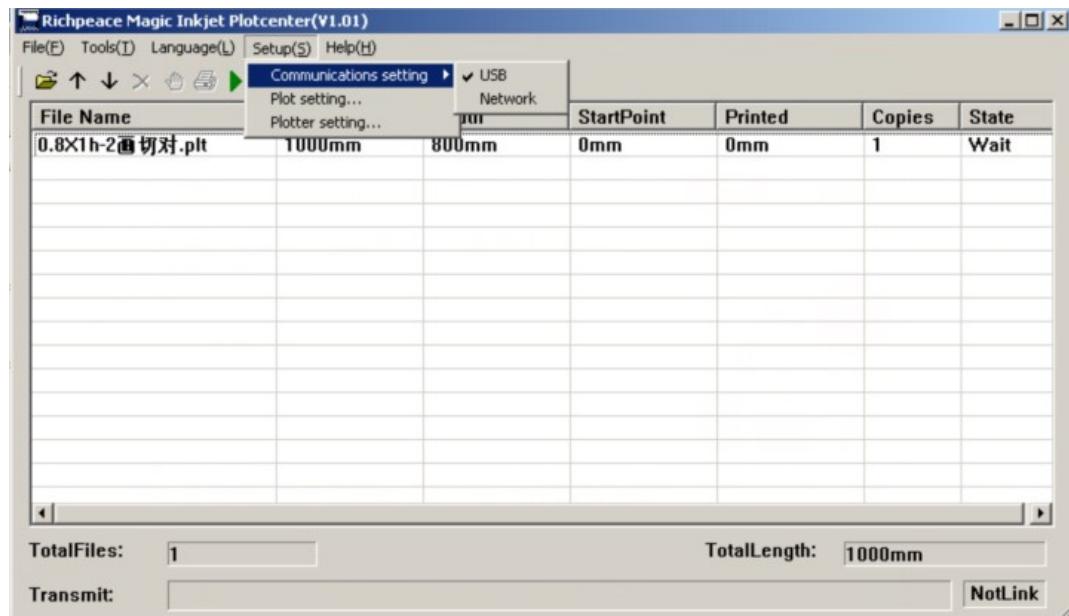


3.4 Setting

1. Communication settings

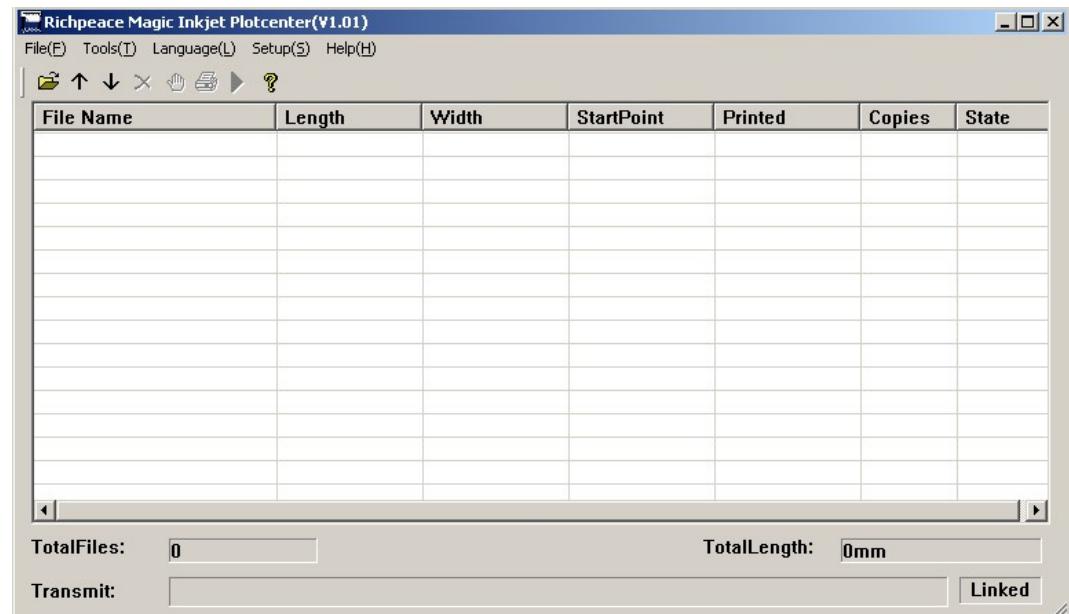
Communication setting means connecting inkjet cutting plotter with computer. Their setting should be consistent, otherwise unable to connect and communicate properly.

Two communication modes: Ethernet port and USB. If connecting succeed, display "connected"(means network connection succeed) or "USB" (means USB connection succeed) in the lower right of the plotting & cutting center interface. The inkjet cutting plotter connect with computer properly, then communicate and print.



USB connection mode

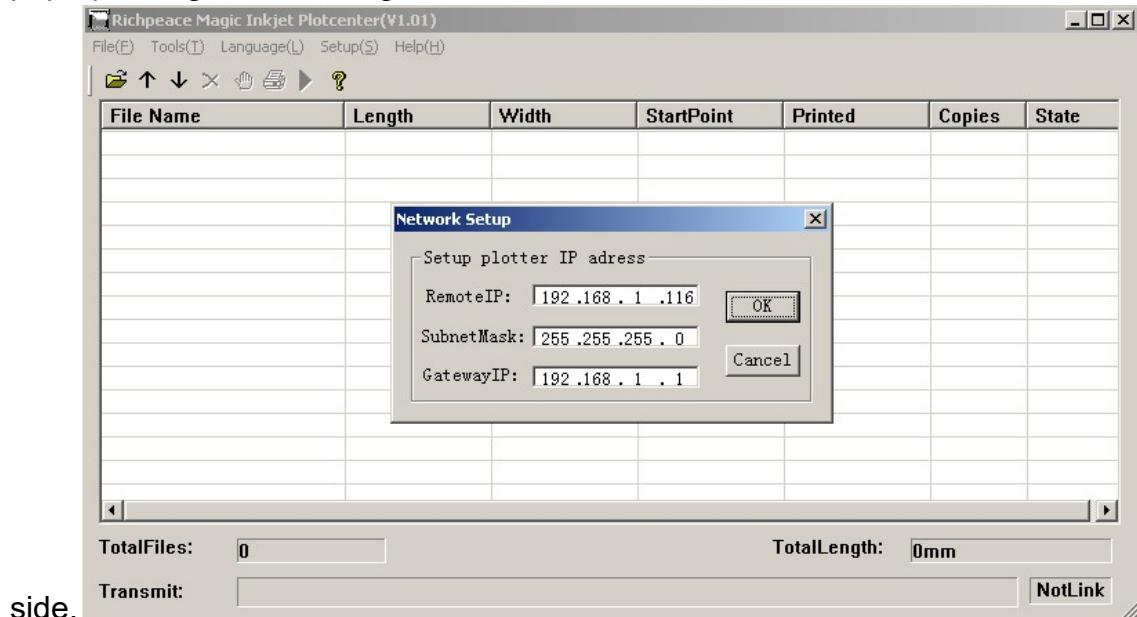
When using USB connection mode, choose USB and install the driver. After USB connect succeed, the interface is as follows:



Network connection mode

When using network connection mode, choose network port, and set IP in the

pop-up dialog box in the right



side.

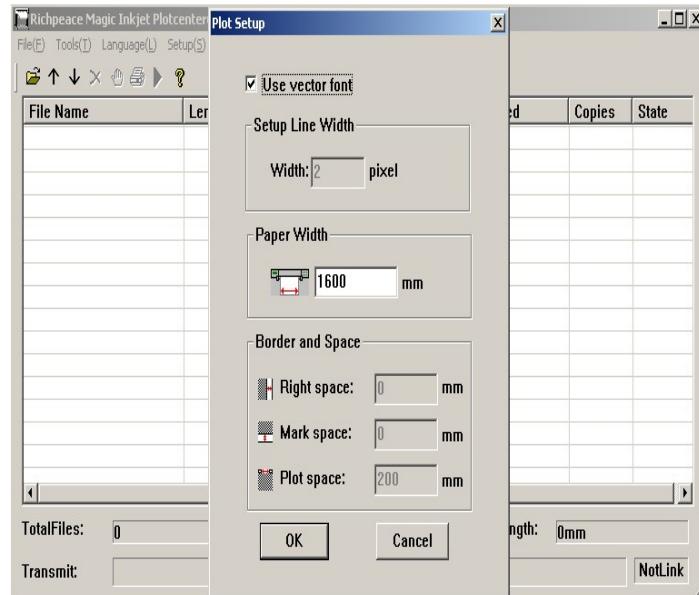
Plotting & cutting center IP should be consistent with the inkjet cutting plotter. For example, if the computer IP is 192.168.1.116/255.255.255.0/192.168.1.1, the inkjet cutting plotter and plotting & cutting center IP should be 192.168.1.116/255.255.255.0/192.168.1.1 too.

2. Graphics setting

Click “settings” under the menu of “graphics”, pop-up the following dialog box.

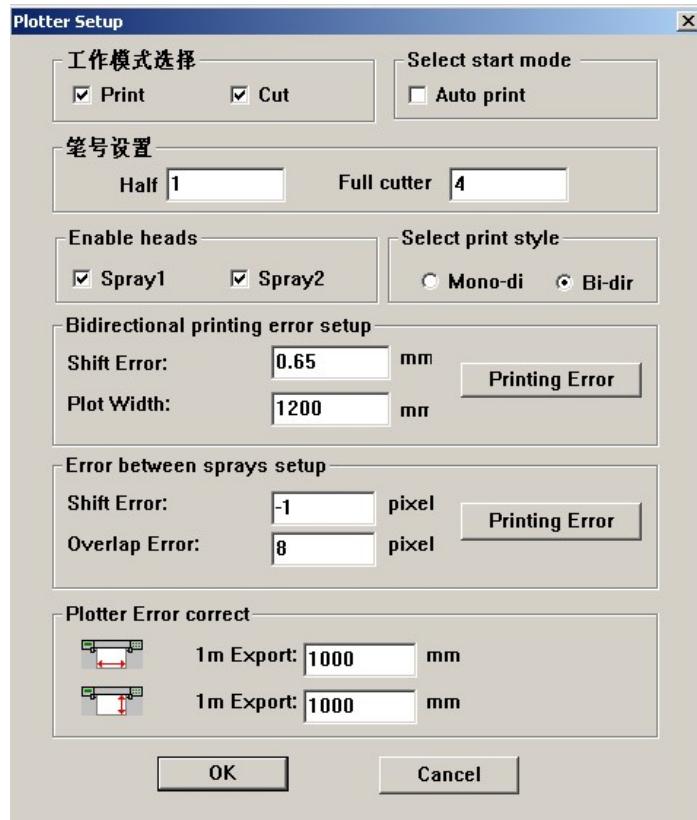
Line width settings: set printing line thickness; the number bigger, the thicker. Default 2.

Paper width: the max. Plotting width of plotter.



3. Inkjet cutting plotterParameter setting

Click “settings” under the menu of 'cutting machine set' , pop-up the following dialog box.



Printing start mode: when adding files into printing queue, only clicking "start" button, then start printing. Choose and it works.

Working mode: choose “printing”, only print the current files. Choose “cutting”, only cut the current files. Choose “printing” and “cutting”, first print and then cut.

Printing mode : “One-way”, only print in the single direction. “Two-way”, print in bi-direction.

Pen No. Setting: specify pen No. to print, and specify the blade No. to cut.

Nozzle selection: select nozzle according to installed different cartridge.

Graphics error correction: adjust the plotter output accuracy.

Bi-directional printing error setting: adjust the error between the print head moving left and right.

Nozzle error setting: adjust the error between the neighbor nozzle left and right, back and forth.

Chapter IV FAULT HANDLING

4.1 ErrorMessage

The machine can indicate the errors on the LCD screen automatically if any problems occurred, so it will help the operator find problems and solutions. Error indication and malfunction reason is as follows:

1) Graph out of range

Reason: the width of the plotting marker is more than the printing range

Solution: check whether the file is correct. Note the marker width is no more than the printing range. The zero point setting may be too big. Adjust the zero point position.

2) Origin sensor error

Reason:

The LCD screen will show initialization process when power switched on,

Z-axis start rotating to the blade lifting position, if it couldn't stop at the sensor position, it means Z-axis sensor damaged. If it stops, continue to initialize.

X-axis start moving to the zero point, if it couldn't stop at the sensor position, it means Y-axis sensor damaged. If it stops, continue to initialize.

Y-axis start moving to the zero point, if it couldn't stop at the sensor position, it means Y-axis sensor damaged. When check the sensor, the LED light representing Y-axis sensor on the main board would light. If it doesn't light, the sensor is damaged or connecting cable is abnormal.

Solution: check whether the origin sensor is damaged and X/Y/Z-shaft moves properly. Change the sensor or the cable to test.

Notice: if the above problem cannot be solved after switch on and off machine several times(3 or above), please contact RICHPEACE Service Support.

4.2 Notes

1. Do not set the zero point when machine is running.
2. Do not set any parameters when machine is running.
3. Do not transfer the data before successful initialization.
4. Do not move or shake machine after connecting the power
5. Please keep sensor position clean. Do not block sensor when machine is running

6. Please keep cartridge in sealed box, if the machine is not working for long time, in order to avoid blocking ink cartridge.
7. Do not use wet, curly, folded or broken, and other bad quality of paper.
8. Please use HP original cartridge to guarantee high quality printing.
9. Do not put your hand or some other goods within the working area in order to avoid human injuries or plotting quality.

Chapter V Machine handling, storage and Daily maintenance

5.1 The machine handling, storage

The equipment is precision equipment. In the process of handling, please pay attention to the warning signs shown below, in order to avoid damage to equipment and cause needless loss.



Storage should avoid the wind, avoid the sun, and put in a cool and dry place. When the equipment is not using, it should be covered up, in order to avoid dust into the driving part, affect the use of the machine and working life.

5.2 The machine daily maintenance

- 1) After running a period of time, the parts joint in moving system, like screws, nuts, washers, etc will become loose, which will affect the mechanical movement smoothness, so often observe whether there is any sound or abnormal phenomenon in the process of machine running. If any problems found, fasten it and maintain in time. Meanwhile, use tools to fasten the screws one by one after a period of running time. Fastening for the first time should be one months later after running.
- 2) Due to the vibration of the machine, it will lead to cutting platform produce slight change, thus to influence cutting effect. If there is non-stop cutting, please adjust cutting platform. Any problem found, adjust at any time. (Adjustment method: adjust the screw under the cutting platform, Big screw locking is drop, conversely is rising; Small screw locking is rising, conversely is drop.)
- 3) In order to ensure the machine high machining accuracy and running smoothness, the guide rail should be regularly cleaned. (Suggest to clean it once every half month, operate under the machine turning off)
- 4) Fan running for a long time, would gather much solid dust inside and cause the fan a big noise, which is unfavorable to absorb air. When the fan absorb power is insufficient, turn off the power supply firstly, discharged the into- duct and the out- duct on the fan, remove the dust, and then put the fan upside down, and move the fan leaves till it is clean, then install the fan well.
- 5) The equipment body and power must be grounding. Maintenance people and operator should check whether it loose before repairing or turning on the equipment. If there is problem, grounding immediately, in order to avoid accidents.