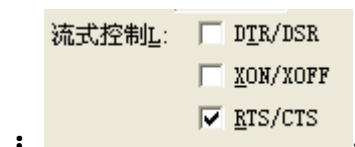
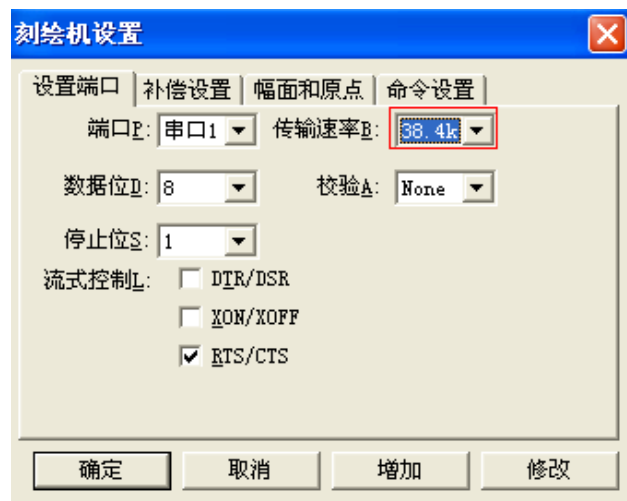


NOTE:

1. When you select PCUTUSB port to output, setting in this port is Prohibited
2. When using serial port to output, set the baud rate of the software to 38.4K, or 38400.

For example, Artcut software



Note: if settings are not correct, the machine will not work.

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1. Safety precautions

	WARNING	Any improper operation possibly results in hazard of life or damage of equipment..
	CAUTION	Any improper operation possibly results in hazard of life or other objects.

Definition of sign symbols

	The symbol is prepared to arouse operator's highly attention. The symbols in triangles specify the cases to be attentive. The symbol in the left warns you of electric shock.
	The symbol specifies the activities to be forbidden. The symbol in the circle specifies the acts to be forbidden. The symbol in the left tells you no detachment.
	WARNING
	Do not use the power source not meeting rating voltage, otherwise fire or electric shock may be resulted in.
	If the machine gives out smoke or unpleasing smell, or noise sounds please do not use it .in such cases, continuing using it may result in fire or electric shock.
	Do not put out the plug when the power is on to avoid damage to the machine.
	Make sure the machine grounded otherwise electric shock or mechanic default may be resulted in.
	Do not detach, repair or reconstruct the machine, otherwise fire, electric shock, hazard of life may be resulted in
	CAUTION

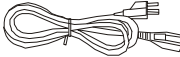




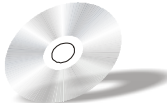


	Do not leak any liquid or drop metal into the machine, such things may result in fire.	
	Do not touch the knife top with your finger to prevent injury or perspiration of knife head.	
	Do not damage or random replace the supplied power cable. Do not excessively bend, pull, bundle the power cable or place weight on it, otherwise the power source may be damaged even fire or electric shock is thus incurred.	
	If you are not going to use the machine for a long time, please unplug the power cable from the receptacle, otherwise fire possibly happens.	
	When operating the machine, do not place either of your hands on capstan to avoid injury.	
	Place the machine on a stable surface, otherwise the machine may fall therefore get damaged.	
	To unplug the power cable from receptacle, please hold the plug instead of the cable, strongly pulling of the cable possibly results in electric shock or fire.	
	Any operation is forbidden in case of storm or lighting to prevent damage of the machine.	
	Do not pull the cartridge by hand to avoid damage to the mainboard.	



2. Standard accessories

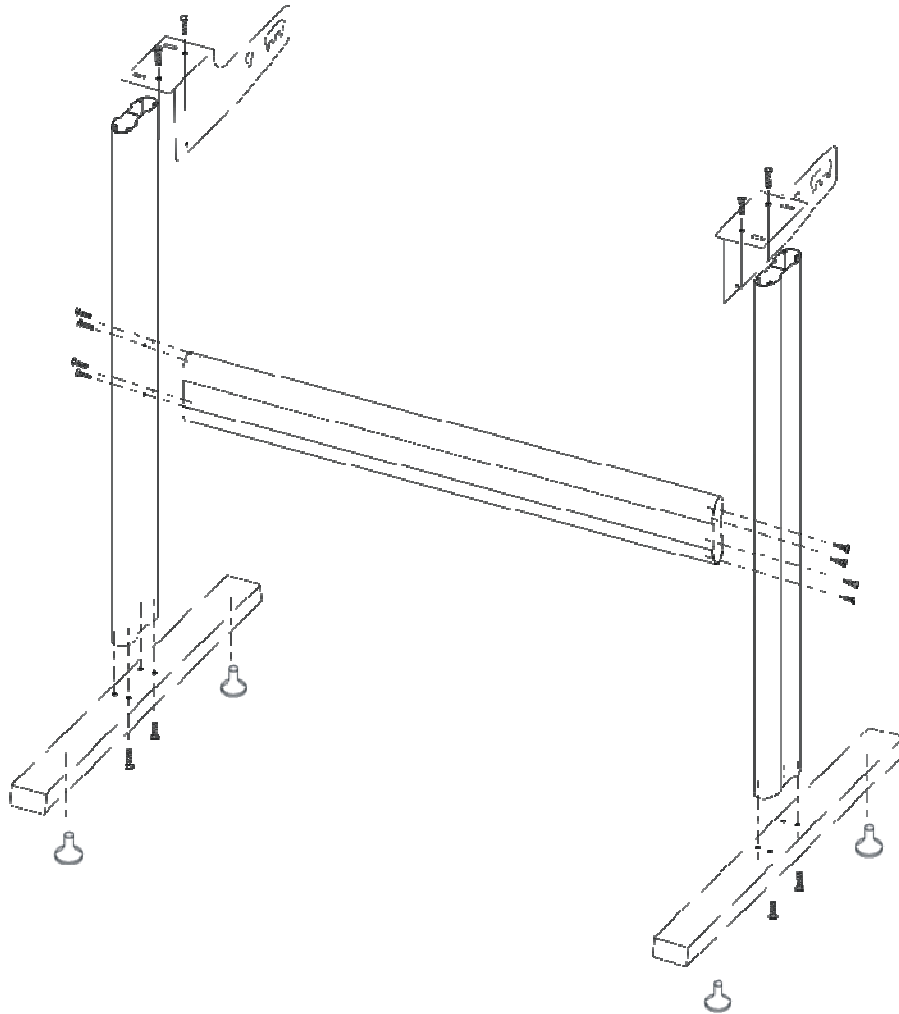
Check following accessories after unpacking, please contact the seller or our company if you find anything missing.

Item:	Parts	Quantity	Picture
1	Power card	1	
2	USB	1	
3	Serial cable	1	
4	Blade holder	1	
5	Blade	3	
6	Pen holder	1	
7	Ball pen	1	
8	Manual	1	
9	Guarantee card	1	
10	certificate of quality	1	
11	M bracket		optional
12	stand	1	optional



Stand installation

(Stand floor is standard for CT900H、 CT1200H and optional for CT630H)



Take out every party of the stand from the packing box, turn on the party bag, install the stand according to the illustrational showing. Lay the cutter on the stand after install, aim at and install spiral shell, then lock with the



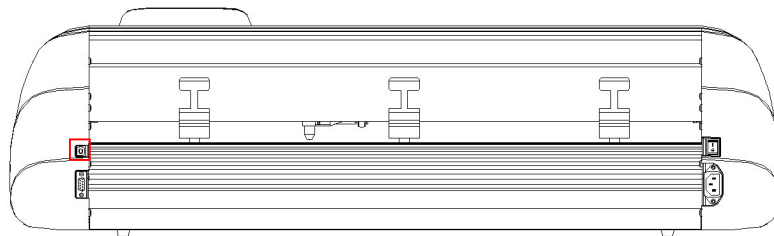
3. Installation

3.1 Installation and connections

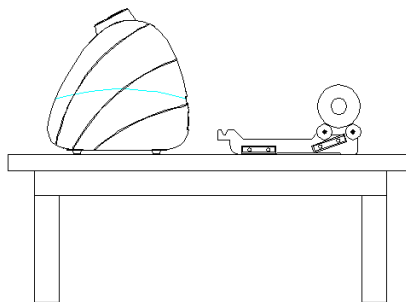
	WARNING	
	Make sure machine is grounded, otherwise electric shock or mechanic default is possibly resulted in.	
	Don't use the power source not meeting rating voltage using the wrong power source may result in fire or electric shock.	
	Don't pull out the plug when the power is on to avoid damage to the machine.	
	Place the machine on a stable surface, otherwise the machine may fall therefore get damaged.	

3.1.1 Place the cutter in a plane and roomy place

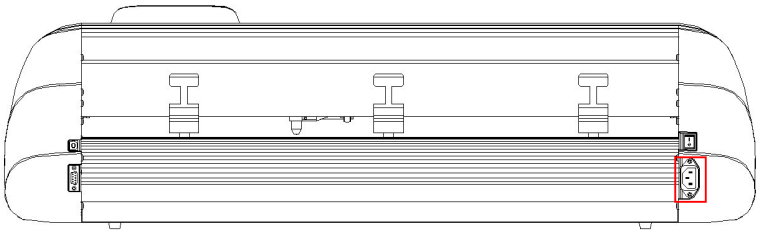
3.1.2 Connect signal cable to usb port of the computer host.



3.1.3 Place the bracket behind the host, ensure it is parallel to the host.



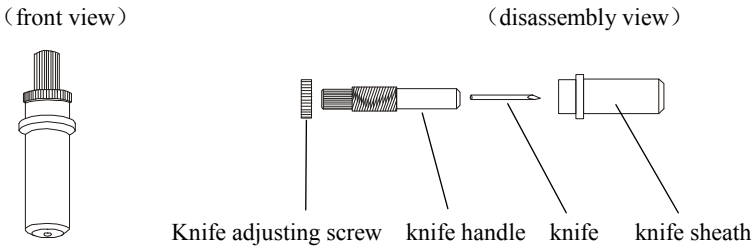
3.1.4 Check power and voltage, whether it is grounded, do not connect to power until all are in a good condition



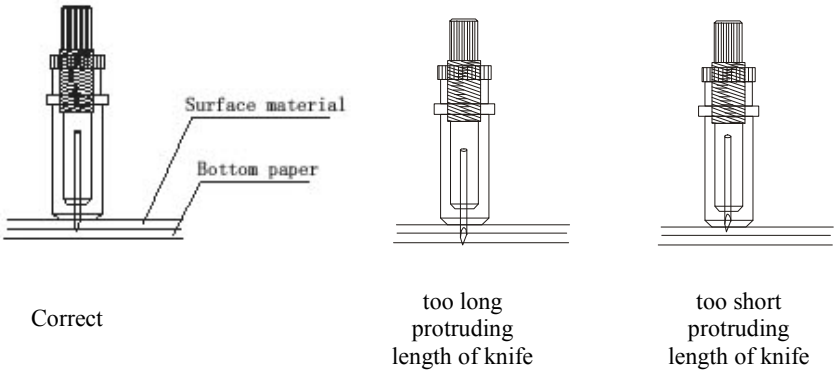
3.2 Installation cutting tool

	CAUTION	
	Don't touch the knife top with your finger prevent injury.	

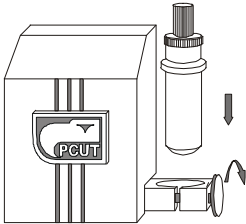
3.2.1 Fit cutter into rotary tool, the knife are as shown in following drawings:



3.2.2 Adjustment the protruding length of the knife top as required for specific cutting media.



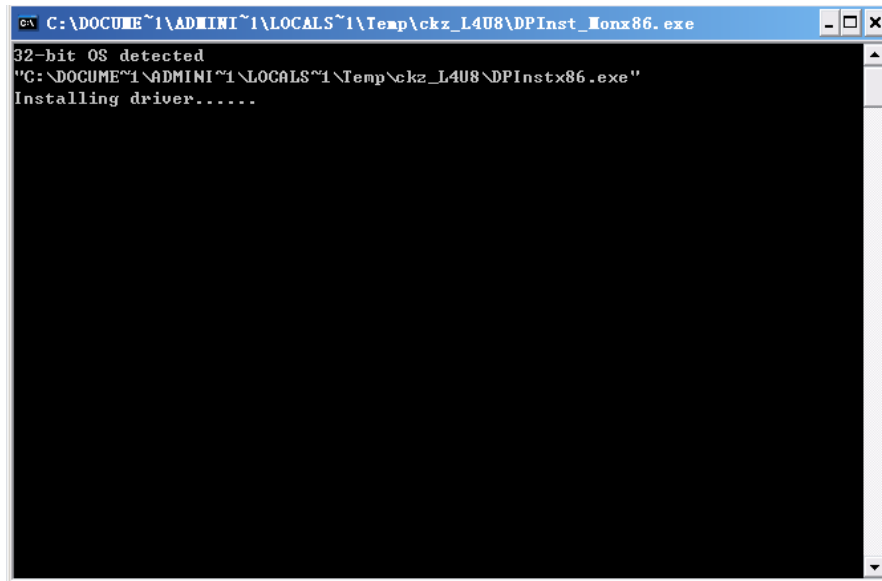
- 3.2.3 (1)Loosen the screw Of tool carrier
 (2)Assembly the tool with knife into the tool carrier
 (3)When the tool is in appropriate position, screw it and fix the screw.



3.3 Installation of USB Driver

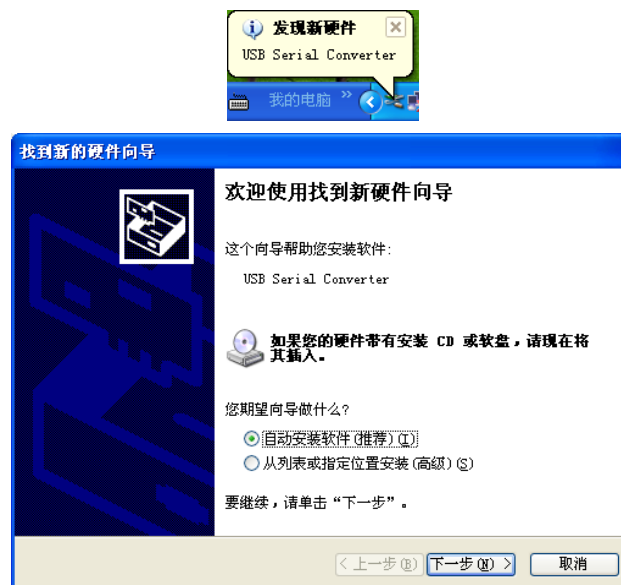
3.3.1 Insert the driver CD into the computer, find the fold

driver in ,then double click the CDM20802_Setup.exe file, the computer will display as follows:



After the driver installation, it will close automatically.

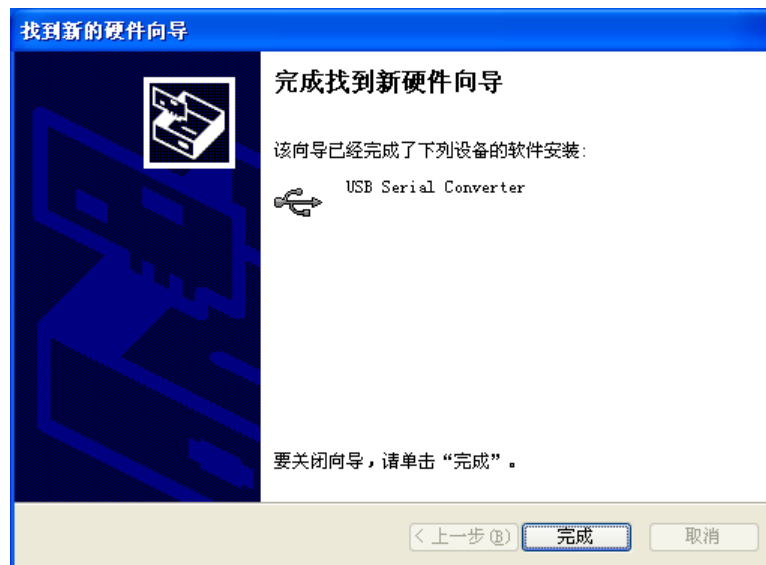
2: Connect the plotter to the computer with USB cable , turn on the power of plotter, computer will show the following dialog box.



Select the "Run automatically", click "next", it will show as below



When installation finished, Computer will show dialog as below:



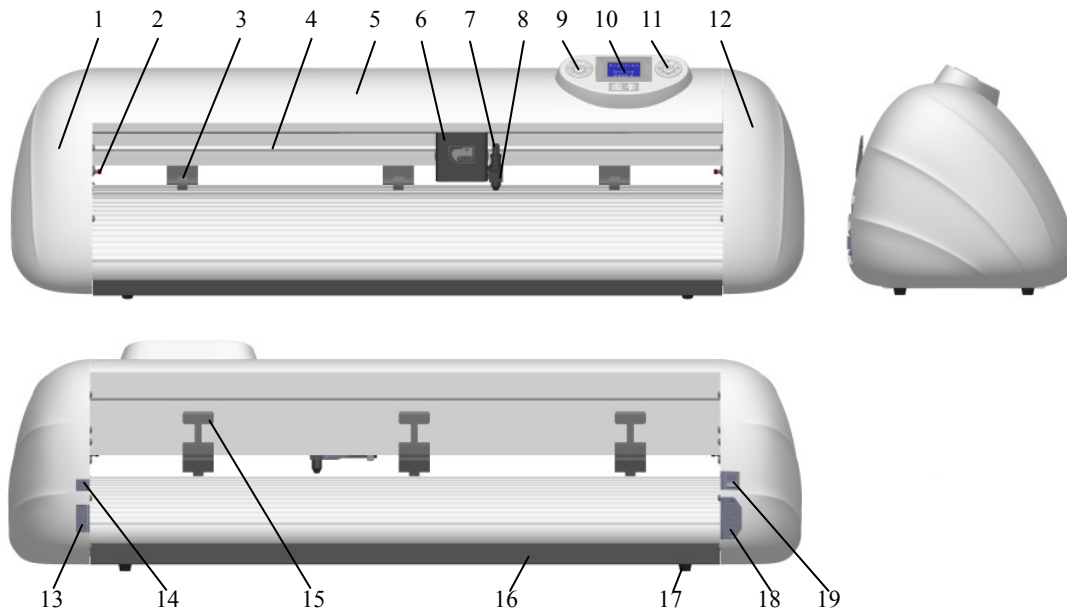
Click "Finish", withdraw the dialog box.



4. Detail instruction

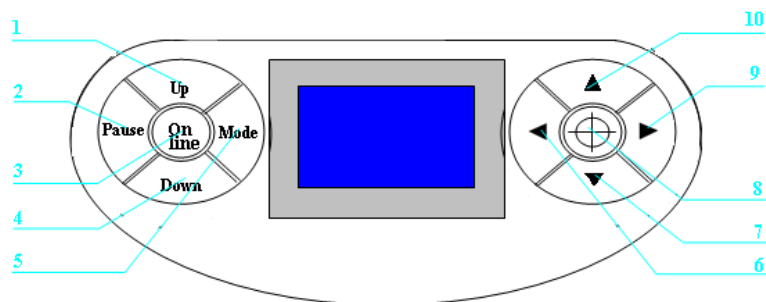
4.1 Name and function of parts

4.1.1 Front view






- | | |
|-----------------------------------|--|
| 1、 Left cover | 11、 Right key (Navigation buttons) |
| 2、 Limit switch | 12、 Right cover (inside motherboard) |
| 3、 Pinch roller wheels | 13、 Serial interface |
| 4、 Beam | 14、 USB Interface |
| 5、 Upper cover | 15、 Pressure roller handle |
| 6、 Carriage | 16、 Bottom board (inside power supply ,driver board. fan) |
| 7、 Blade holder | 17、 Mat |
| 8、 Cool tool & blade holder screw | 18、 Power switch |
| 9、 Left key (function key) | 19、 Power socket |
| 10、 LCD Display | |

4.1.2 keypad



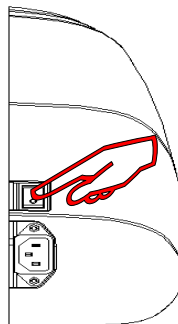
1. Up 2.Pause/ Continue 3.Online 4. Down5. Mode
6.Left 7.Backward 8.Clearance 9.Right 10.Forward

4.2 Basic operation

	CAUTION
	<p>When switching on the power, make sure your hands and other articles are out of reach of such running parts as main shaft and slider to prevent injury.</p> 

4.2.1 Turn on machine

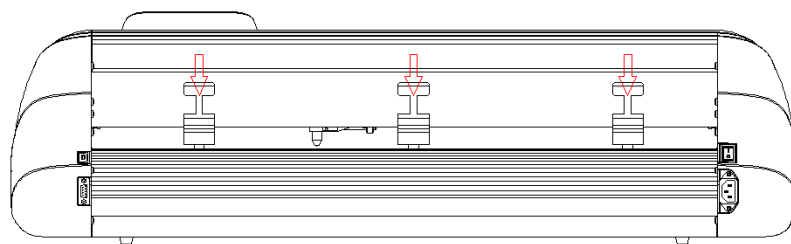
- 4.2.1.1 Check whether the power is in OFF position.
- 4.2.1.2 Plug the cable into the receptacle of the host power source, press the power on/off on the left.



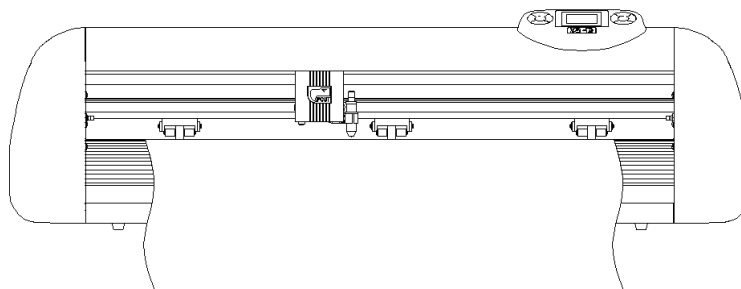
4.2.2 Installation of cutting media

This machine is suitable not only for single-sheet media, but also a roll of media.

- 4.2.2.1 Press down the handle of pinch roller behind the machine to raise the handle



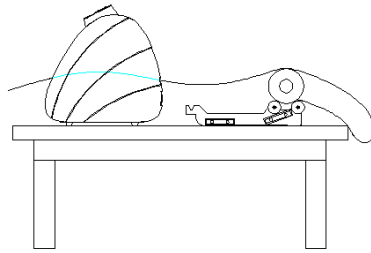
- 4.2.2.2 Insert the media into the space between the pinch roller and main shaft, and pull out the media to appropriate length from the front of the host.





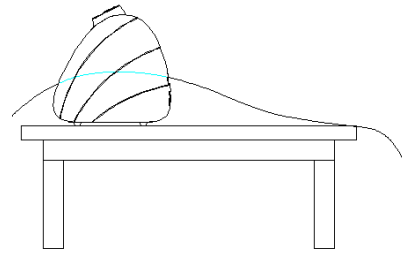
Using roll media

Cutting required length from paper roll

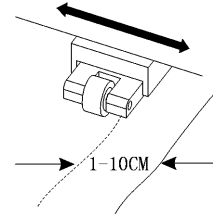


Using single sheet of media

Cutting required length from paper roll



- 4.2.2.3 Adjust horizontal position of paperweight wheel according to width of paper. a distance of minimum 1-10CM is set between paperweight wheel and paper edge to ensure good running of paper.



- 4.2.2.4 Raise two handles of paperweight wheel, to make paperweight wheel down to press paper.

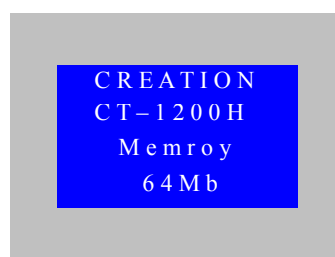
- 4.2.3 Tesing cutting blade (adjust knife press and tool)

	CAUTION	
Do not touch the knife top with your finger to prevent injury.		

Quality of knife immediately relates to cutting precision and life of machine. To better your work, please use the standard knives we confirm, but not those with poor quality.

4.3 Operation instruction

4.3.1 Start machine information

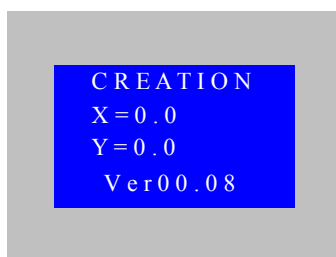


The figure shows manufacturers and machine model .(such as: CREATION CT1200H)






4.3.2 Normal display after start the machine



The figure shows main board firmware version (Ver00.08)









The figure shows carriage coordinate display: display coordinates of carriage , adjust the direction by the

function key : “Forward”  button, “Backward”  button, “Left”  button, “Right”  button to adjust carriage to forward ,backward ,left ,right. After finish , press “Clearance”  button to back to Zero.


4.3.3 Machine state while it is working as below:






During cutting, you can press the “Pause”  button to pause and then press “Pause”  button again, the machine will continue working. If you want to change the cutting pressure and speed, you can pause the machine first then press the direction key “Forward”  button to increase speed, press “Backward”  button to decrease speed, press “Right”  button to increase cutting pressure, press “Left”  button to decrease cutting pressure ,you also can adjust by the following way.




4.3.4 Cutting pressure adjustment

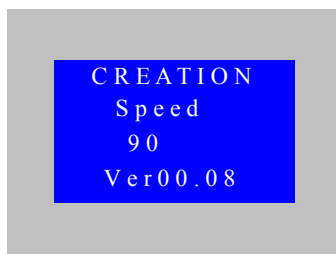
After power on, In the normal display state or normal coordinate display state, press “Mode”  button to enter into cutting pressure adjustment mode as below:






In this mode ,press “Up”  button to increase cutting pressure, press “Down”  button to decrease cutting pressure, knife pressure adjustment range is 1 to 255, press the “Mode”  button four times continuously, it will back to the coordinate display state.


4.3.5 Speed adjustment

After power on, In the normal display state or normal coordinate display state, press “Mode”  button two times continuously, it will enter into speed adjustment mode., as below:



In this mode, press “Up”  button to increase speed, press “Down”  button to reduce speed,, speed adjustment increase or decrease by ten unit ,adjustable rang 10~100. after finish, press “Mode”  button to back to the coordinate display state

4.3.6 Cutting pressure test.

In coordinate display mode,cutting press adjustment mode : press the “Pause”  button,machine will cut a square at this time. You can adjust the pressure according to the cutting result.

Attn: speed and pressure data will save after once adjust

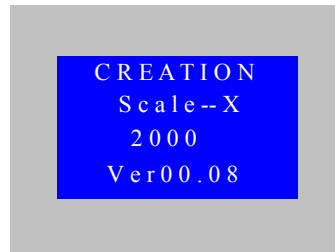



4.4 Advanced parameter setting

Advanced parameter setting include X Axis proportion adjustment, check the main board firmware version, machine model number ,the self-test aging ,restore default parameter.

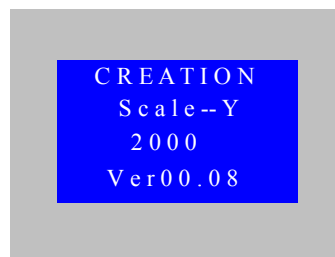
Some related information as below:


The first parameter, X axis proportion adjustment as below:





Press “Mode”  button until to display as the above figures,
The higher value, the larger graph of X axis, the less value, the smaller graph.

The second parameter: Y axis proportion adjustment as below:



Press “Mode”  button until it display as the above figures, The higher value, the larger graph of Y axis, the less value, the smaller graph.

Attn: X axis and Y axis value will be save into the machine once adjust, In the corresponding interface,


press “Up”  button to increase, press “Down”  button to decrease value, and their adjustable range from 1 to 4000.

The third parameter machine model number as below:





This parameter will display when you start the machine, or display at this mode:



press "Pause"  button (at the interface of Y axis proportion adjustment) into the above figure. If this parameter does not match the actual model, it will cause incorrect cutting proportion problems. Please contact with the dealer or Creation after service.



The fourth parameter :self-test aging:



At the interface of Speed adjustment ,press "Pause"  button into the above interface, at this interface, press "On line"  button , machine will self-test automatically. ,after enter into self test mode, machine will work auto, if want to stop self test, please restart the machine.

The fifth parameter: restore default parameter as below:



At the interface of x axis proportion adjustment, press "Pause"  button to into the above interface ,at this time if you want to restore the default parameter, press " On line"  button, all the default factory parameter will be restore.



4.5 Knife off-setting

4.5.1 If it is not close during cutting, it needs to set offset in cutting software

(details please follow the software manual) as below:



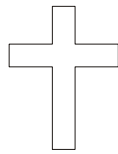
no offset



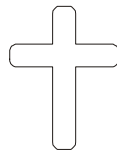
with off set

4.5.2 During cutting, if the right angles is not at right angles, please set the Sharp-angled compensation in the cutting software

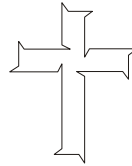
(Attention please off set value need to follow the actual situation) as below:



Correct



not enough



over

* When you are using cutting software, we are recommend to select high precision output



5. Specifications

Type	CT630H	CT900H	CT1200H
Media way	M bracket or stand	Floor stand	
Main board	Cortex-M3 Kernel of 32 high-speed processor		
Control panel	Highlight graphical LCD display, user-friendly keyboard		
driver	Capstan dual high-torque motors, micro-step driver		
Positioning mode	Clearance system, any origin set		
Max paper feeding	730mm	1000mm	1300mm
Max cutting width	630mm	900mm	1200mm
Max cutting speed	600mm/s		
Max cutting length	20000mm		
Max cutting thickness	1mm		
Cutting pressure	1-255(digital adjustment)		
Mechanical precision	0.05mm		
Repeatable precision	≤0.1mm/twice		
Type of tool	Carbide blade		
Type of plot pen	All types diameter 11.4mm plotter pen		
Plotter instruction	DM-PL HP / GL Automatic identification		
interface	USB/Serial Port		
Power supply	INPUT AC110V±10% 1.0A 60Hz,AC220V±10% 0.5A 50Hz		
Power consumption	<100W	<100W	<120W
Operating environment	Temperature:+5°-+35°, humidity 30%-70%		
Package size	1045*330*410	1292*330*440	1593*330*390
Transporting weight	16Kg	28Kg	32Kg



6. Troubleshooting

6.1 Question: will the characters below 1CM be deformed?

Answer: When cutting small characters, please set offset in the software, for example, in" Artcut" sign software:

- (1). Click"plotting output"once, a plotting output picture will pop up.
- (2). Click"set"once, a picture of setting plotter will pop up.
- (3). Click"compensation setting", a dialog box will pop up.
- (4). Select"sharp-angle compensation", adjust the value to required level.

The compensation ranges within 0.1-0.7, more often we set it to be 0.25. in addition, the plotting speed of the cutter shall be set below 20.

6.2 Question: Why there is an additional stroke after finishing cutting

Answer: (1). check if the tip of cutter is flexible when it is up and down.
 (2). change the Master software if there are some deviant letters.
 (3). check if there are some problems on the files you are ready to output.

6.3 Question: why does zigzag happen to the cutter?

Answer: As cutter CT motor features high power and speed, so the cutting speed shall be adjusted according to size of character. Generally, to cut small glossy characters with high requirement for precision, the speed shall not exceed 40. In most cases, the speed at the shift 50-60 is favorable. To cut big characters of large quantity within shortest time, the speed can be 70, 180, but since step distance of motor is so long that evident zigzag occur. Therefore, you should set the speed to specific size of characters, and the relationship between speed and size of characters please refer to following table:

Size of font (mm)	SPEED (mm)
< 10	10-20
10-30	30
30-50	40-50
50-500	60
> 500	70-80

6.4 Question: why do the paper deviate when it runs by a large margin?

Answer: The paper feed bracket containing paper roll shall be completely parallel to paperweight wheel, for big roll of materials, loosen it prior graving to prevent excessive obstruction when plotting or graving. For the machines with four paperweight wheels, when plotting big image or characters back and forth, use the two paperweight wheels at sides instead of press the four down simultaneously. Unequal abrasion of the two wheels also may result in deviation of the paper; in worse case replacing wheels is needed.

6.5 Question: why does lock up happen in plotting output?

Answer: (1). Exterior 220 V input voltage is too low (150V), the plotter will restart thus lock up happen.
 (2). When disturbance of exterior 220 V input voltage is too high, lock up may happen, to resolve it you can use purified regulated power source.

6.6 Question: Why does the machine feel tingle?

Answer: the machine might be improperly grounded, make sure central line of the power source grounded.

6.7 Question: why does the job feel not smooth with sharp-angle raised when plotting?

Answer: (1). The protruding length of knife top is too long, please adjust it as required.
 (2). The knife is abraded, replace it.



6.8 Question: why does the plotter first scratch a line before plotting?

Answer: because the machine illegally escape last time, there is still knife-dropping instruction existing in the memory of plotter. To resolve it power off the machine and turn it on again.

6.9 Question: No LCD display or a black row of blocks are displayed?

Answer: (1). In case of no display, check whether the power work well.

(2). If black blocks are displayed, check whether voltage is at required level. If troubles remain after the above operation, please contact maintenance center

6.10 Question: why can not some characters close in strokes when it is plotting?

Answer: Because the knife of the plotter is eccentric knife with a eccentric value, to resolve it, set“closing compensation”in the software. For example: in “Artcut” software:

(1). Click“plotting output”once, a plotting output picture will pop up.

(2). Click“set”once, a picture of setting plotter will pop up.

(3). Click“compensation setting” a dialog box will pop up.

(4). Select closing compensation, adjust the value to required level, generally the value is set to be 0.5.

6.11 Question: Why the machines have missed some pave of letter when cutting?

Answer: (1). Check the machine if it presses enough.

(2). Reinstall the software.

(3). Chook the head of the knife.

(4). If the problem is still in existence, please contact with repair center.

6.12 Question: why is the machine in low-speed state after start-up?

Answer: Because paper sensor fails to detect the fore end of paper. When feeding paper make fore end of paper cover hole of paper sensor, then perform another automatic paper testing.

6.13 Question: why do some nicks deep, while some shallow when cutting?

Answer: As CT employs upscale soft PVC materials as knife strip cushion to protect knife. But long period using it may produce a trace therefore roughing the stripe cushion, so some nicks become deep, while some become shallow. To resolve it replace a stripe cushion. If is not so worse, adjust knife as described in section 3.2.B, increase knife press (some 120 -150).

6.14 Question: why can not the plotter run when it is outputting?

Answer: (1). Check whether the plotter is properly connected with computer. CT is connected with COM1 or COM2 of computer; check whether the set ports are conformed to those connected.

(2). Check whether the plotter is in online state, namely whether the LCD displays“ON LINE”.

(3). Check whether the encryption card of software is properly. If not please turn off the power and reinstall it. Check driving program of the plotter is for CT series.

6.15 Question: why can not the instant-glue be taken off?

Answer: (1). Perform trial run prior output, adjust press to appropriate level.

(2). Check whether the knife is used too long, or whether the knife top is broken. For new ones the nick is thin in the instant-glue, while for old ones the nick is thick and impressive. To resolve it replace it with a new knife.

6.16 Question: what is attentive when cutting big characters?

Answer: (1). When cutting big characters, the system can automatically How to setup page, you can cut a big character in several pages, but it is notable that the setting of output width shall be conformed to the width of instant-glue in addition, when cutting big characters and output it, you should widen pages or set seaming distance.



(2). When you use the special wide machine to cut the big characters, especially the long big characters Before cutting input, you shall instead the paper first look careful the paper if the paper deviates then deviate the big characters into some pouts to input, it can make sure it won't deviate and waste paper.

6.17 Question: how do we maintain the plotter?

Answer: CT series plotter all employ upscale oil bearing from Japan, no oil is needed even it works for a long time. After operation everyday, clean the dust with soft brush. The glue remaining in engine base can be cleaned with alcohol. If frequently operated in dusty environment above two years, please have maintenance technicians clean the dust in machine. If plotting precision degrades, the maintenance of running parts are desirable (firming and replacing the abraded parts).

6.18 Question: Why does the plotter is out of our control sometimes?

Answer: Maybe while transporting or using it, the signal line is improperly connected, open the machine properly plug all lines. If the problem still fails to be solved after the above operation, please contact local agent or maintenance center.

6.19 Question: Why does the plotter come to halt?

Answer: Because it encounters vibrate for a long period, or has been used for a long period, or is affected by temperature, so dielectric displacement happen to the servo driving board, therefore resulting in halt, please contact local agent or customer maintenance center.