

Colordowell

4606S PAPER CUTTER

User Manual



Before Installation
Please Read This Instruction Manual.

FOREWORD

Thank you for your choice of our Precise Paper Cutting Machine series. We will provide you with good quality and reliable post-sale service. On the basis of original products, our research and develop engineers combined advantages of products at home and abroad, and finally developed new model of Precise Paper Cutting Machine. It owes hlg technology, preclse constructlon deslgnation, and elegant appearance, with the securitycontrol part and cutting precision improved.It can be broadly used in printing centers and offices. It is the most ideal cutting machine which well complies with office automation system.

Warning:This kind machine is allowed to cut printed paper or books or soft leathers only. It is forbidden to cut any metal sheets or other hard objects do harm to the machine quality with kind machine.



Children must not operate this machine.



Do not reach beneath the blade



Do not extract or transport the blade without protection



Do not cut hard material or material which may splinter



Must use socket with ground wire connected

Note:In order to have more usage information of Numerical-controlled Paper Cutting Machine, you have to read this specification carefully first.This will help you improve your working efficiency, realize the machine's property, have the best cutting effects. This will also be good for the maintenance of the machine, and can prolong service life of the machine.

SAFETY CAUTIONS

According to relevant standards, to avoid accident and accidental injury, only professional operators are allowed to use this machine (children or non-professional operators are forbidden to operate). When you use or maintain these machines, please pay high attention to safety cautions below:

■ SETTLEMENT POSITION

The weight of this kind machine is heavy, please put it balanced and in a clean place.

■ POWER

Please connect with the power source correctly in accordance with the specification. and the machine will run irregularly if the voltage is too high or too low. We suggest you use alternating current (AC) power source with steady voltage to improve your working efficiency.

■ GROUND CONNECTION

For safety you should use electric supply socket with ground wire connected.

■ SUPERCHARGE

Please don't connect many electrical products on one electric supply socket, because supercharge may cause a fire or an electric shock.

■ CLEANNESS

Before you clean or maintain the machines, you must cut off the electric source and pull out the electric supply socket.

■ WATERPROOF

Prevent water or other liquid flow into inner machine.



- ▶ Children or non-professional person must not operate this machine.
- ▶ Do not reach beneath the blade.
- ▶ Do not reach cut.
- ▶ Do not cut hard material or materials which may splinter.



- ▶ Must use socket with ground wire connected.
- ▶ Air safety switch, non-professional person is not allowed to open. It is much dangerous.



- ▶ Under normal usage , add right amount lubricating oil to transmission parts and screw mandrel to ensure the machine running properly.



- ▶ Emergency stop which is used in emergency situation should be pressed after dealing with emergency.



- ▶ Test to running the machine with one piece 80gsm paper. If the paper can't be cut completely, please fine adjust the spin blade depth(adjustable depth range 5mm) It can be set and adjusted as picture shows for numerical-control series.
- ▶ If for the program-control series, it can be set and adjusted on the control panel.

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I SAFETY CAUTIONS BEFORE INSTALLATION

1. Open the machine and check

When you open the package of the machine, firstly you should check the machine and relevant accessories. Please contact the seller or our company if there is any damage or shortage.

Main unit
one set

Machine chassis
one set

Specification
one piece

Tooling
one set

Rubber under chassis
four pieces

Certificate
one piece

Stick
one piece

Screw stem
two pieces

Specification
one piece

2. Settlement of the machine

- Open the wooden crate, take out the machine casing, and discharge four M8 screws on the base plate of the main machine; The machine casing needs to assembly, and the screws should be fixed firmly;
- The main unit should be put on the machine casing correctly;
- Check all parts of the machine, and clean them;
- Turn on the power to electrify to test running.



* The main unit should be put on the machine casing correctly:



3.Operating environment

- The machine should be placed in clean working environment, keep away from direct sunlight and wind;
Temperature of the operating environment: 10-30°C, cannot higher than 32°C;
- Humidity level of the operating environment: 50-80%:
- Working power source of the machine: 110V±10%; 60HZ; 1.3KW;
- Connect the ground wire correctly.

4.Special suggestions

- Remember, only one professional operator is allowed to work on the machine;
- When you cut, you should operate buttons by both of your hands;
- Please don't disassemble the safety covering;When you put your hands or other things into the cutting area,you must cut the power first;
- When you change knife blades, you should firmly comply with the blade changing instruction;
- You are not allowed to re-equip the Inner construction and circuit of the machine by yourself.

5. Operating figure

- Turn on the power, open air switch and rotate the emergency stop to make machine get into power-up state.
- Then press RESET , the paper pusher gets running.
- Proper operation is like this: Stand in the middle front of the machine, face to machine, control the buttons with your left and right fingers, shown in the picture.



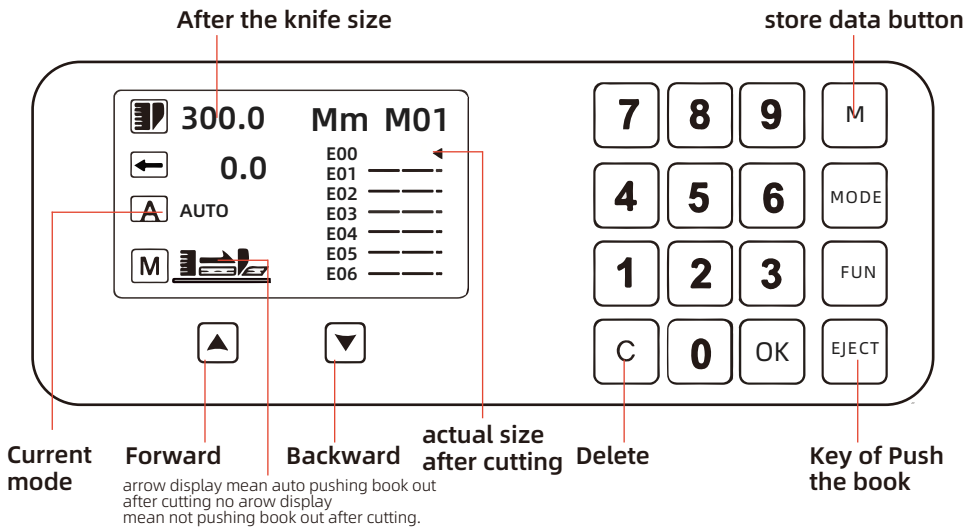
II BRIEF INTRODUCTION OF THE PAPER-CUTTING MACHINE

1.Parts description



2.Performance characteristics

- ▶ Designed with CE standard, front& back protection cover conform to safe system;
- ▶ Independent pressing and cutting paper design device
- ▶ Inclined cutting technology, cut paper completely with thick kind paper;
- ▶ Spin cutter with fine adjusting depth curve technology device
- ▶ Guide way and screw rod paper pushing design device
- ▶ Intelligent control, LCD, optimization and updating program, adjustable pressing pressure, multi-term self-check function, malfunction code display function, automatic counting function, and with 99 programs
- ▶ Optical cutting line; infrared laser indicating line, high visible





- Press M key to be out storage data. Single press M key without loosing , you can modify and select groups in M area from 0-96 with entering number in M area or switching steps up and down until the cursor shine.
- The pusher push automatically after press reset button and release immediately.If press reset button in 2 seconds, the pusher will be reset automatically.
- Press FUN to switch to manual , automatic, segment. If the present mode in automatic or segment, you can press up and down to get into manual mode.You can modify data after pressing C.Press Ok after entering the modify mode to save the data and exit the modification.
- Segment, press MOD button to switch segment mode.

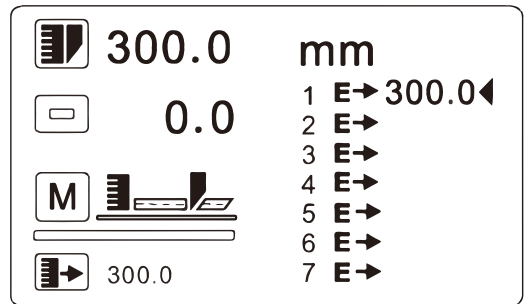
There are **THREE MODES** in program-control paper cutter.


You Can Press  To Change The Mode

1.Manual Mode



There are two ways to input data in manual mode.

- One is to press up button  and  down button to get 285mm.
- This way is too much slow to get. Don't advise to use this way.
- Another way is to press C to delete present data and input 2850 and press. Then the



pusher will move to the position of set size. And press two CUT button at the same time to finish cutting. If don't want to cut at this moment , loose two hands immediately to make it stop cutting.Press  with two hands, the blade and clamp will return to the top position Press M, when the cursor is in the condition of mm, mm can be convert to inch.

2. Automatic

- ① Put the books or papers right to cut, then make the books or books lean to the left front guide.
- ② Make it cut after confirming the cut size.
 - Press two CUT button at the same time to finish cutting of first set size. Then the pusher will move to the position of next set size.
 - Make a cut after the pusher is to stop moving.
 - After finishing 7 cuts, the pusher will go back to the first set size automatically.
- ③ Hit M when the cursor stop at M01. Press   to going switch data from 0 to 96. Then press OK to show all the set group count needed.

3. Segment mode

- ① Press C, show a size set state, then put cut size. Press OK to get next cut size and the cursor move to next. (First cut size is whole size of paper, second cut size is segment size, each out is same size).
- ② Put the books or papers right to cut, then make the books or books lean to the left front guide.
- ③ Start to cut after confirming the size. Press two CUT button to finish cutting. The pusher will move forward with uniform pushing paper automatically. Then uniform cutting, every cut is with same size.

4. Parts description

Model	4606S
Max. Cutting Width(mm)	460
Min. Cutting Width(mm)	40
Cutting Thickness	60
Paper Pressing Structure	Automation
Paper Pushing Mode	Automation
Display mode	LCD
Safety Protection	Infrared photoelectric protection
Power Supply	110V ±10% 60HZ 1.3 kw
Machine Size(W*L*H)	680 mm × 825 mm × 1210 mm
Net Weight	130kg

1 Basic Operations

- ▶ Before starting the preparation work, check whether there are other items on the machine, tidy up clean;
- ▶ Plug the power plug into the socket of AC110V;
- ▶ Turn the electrical protection switch to "ON" position, and the cutting line of the knife light is bright, indicating that it enters the normal working state;
- ▶ Push into the cut paper or book, placed on the left side and the ruler level;
- ▶ Rotate paper hand wheel, adjust to the size of the need to cut, the book and push paper baffle against the flat;
- ▶ Press the cutting button with both hands, and the paper press starts to press the paper automatically.
- ▶ If any size problem is found, release the cutting button with both hands and press the RESET button.
- ▶ The cutter and the paper press will return automatically.



1.Plug in the power supply



2.Turn on the air switch



3.Turn on the emergency stop



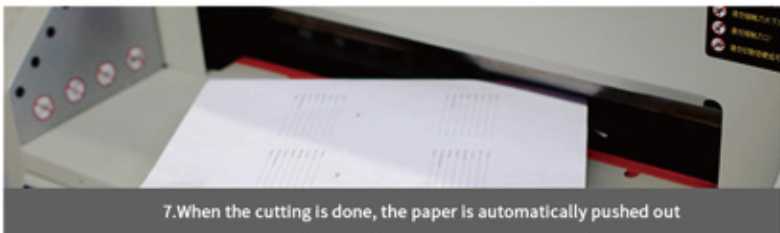
4.Put in the cut material



5.Select the mode and set the size



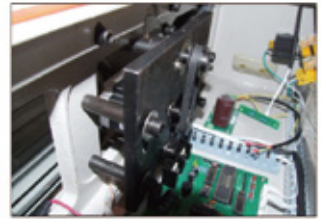
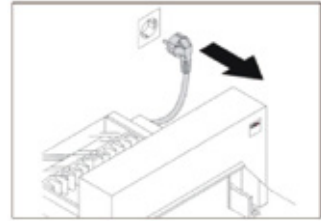
6.Double Hand Cut Keyboard



7.When the cutting is done, the paper is automatically pushed out

2 Size adjusting

- ▶ If the cut size is not same as show size, please turn off the machine. Then tum on the machine and press the reset button.
- ▶ If the problem is not solved by above operation. Please do more as following operation. Cut off the power, remove the back plate which is under pusher. Then check whether there is any things blocking in the driving screw rod.
- ▶ Check whether stepping motor is normal, removie front cover plate, check whether synchronous pulley and synchronous belt is fixed normally.
- ▶ Adjust the support chip in the nut, move it forwards and backwards until the show size is matching with cut size. Then tighten the screw.



3 Cutting Blade Adjustment

▼
First of all, fine adjust the cutting blade depthT adjust depth range about 5mm)or change the side of cutting stick.

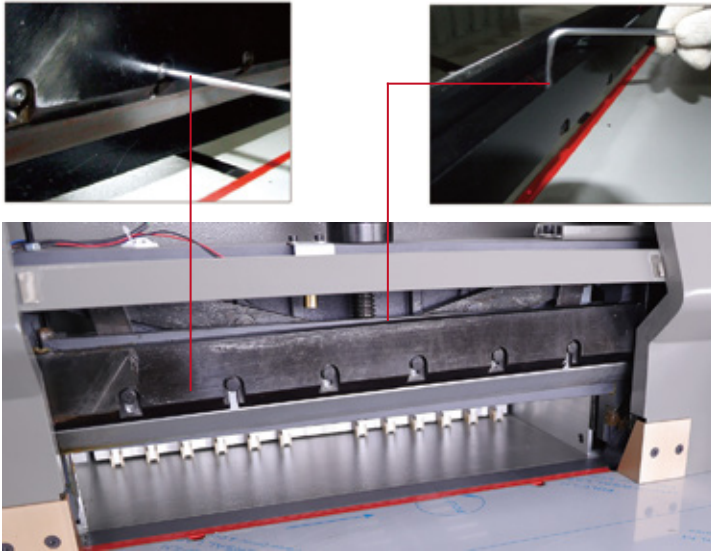


▼
If the last paper still can not be cut completely after fine adjustment the cutting blade depth. Adjust the balanced screw of cutting blade depth once more. Unscrew the screw-sof two side from upper cover. Then remove the upper cover.





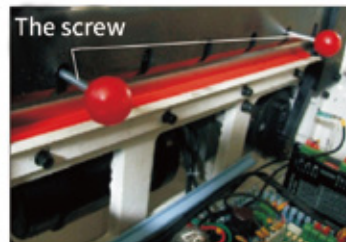
Disassemble 7 retaining M6 screws on the blade carrier which fixed blade. Adjust the depth of blade to make the paper cut completely until the blade cuts into the cutting stick about 0.3-0.5 mm;



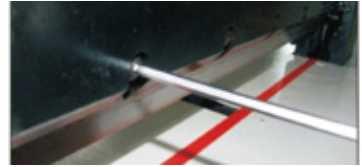
Tighten up the fasten screws on blade carrier. Cover up and make it fasten. Choose one piece of paper to have a trial cut. If it can not be cut completely, you can re-adjust according to the above processes.

4 Blade replacement (please follow the steps carefully)

- ▶ Open the upper cover;
- ▶ Loosen and remove the locking screws with openings on the tool holder, screw the two disassembly screws into the opening screw holes in a clockwise direction and fix and lock them;



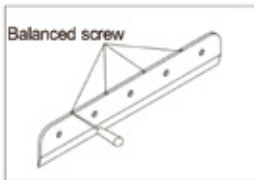
- ▶ Remove the other locking screws on the tool rest;



- ▶ Turn the two disassembly screws counter-clockwise for half a circle and then take out the blade downward. Put the blade in the knife box with gloves or cloth to avoid scratches.



- ▶ Be more careful when taking a new blade out. The blade cutter point must not be to the body.
- ▶ When you install the blade, you should screw up the screw stems. Set the blade on the blade carrier, use screw strip to fasten and fix up, then adjust according to cutting depth adjustment method;



- ▶ Blade sharpening needs to be done in a professional factory, so that to ensure the quality.
- ▶ Note: Dull blade can't cut paper correctly. Also, blade will become dull if it always cuts thick paper or pasteboard. If cutting quality and accuracy can't meet required standard, the blade needs to be changed. Your work will go smoothly if you always have one replacement on hand.
- ▶ When you need to change blade, you must operate according to the steps of blade change instruction.

Note: To avoid any injury, you must be the most careful when you change the blade.

5 Cutting stick adjustment

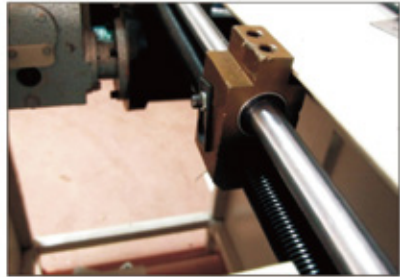
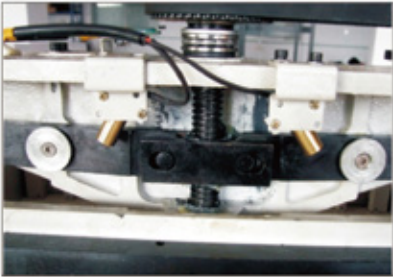
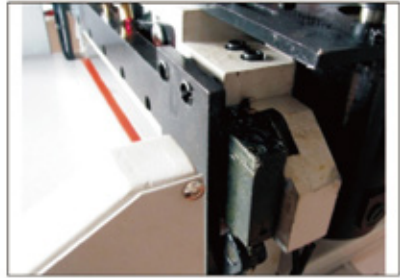
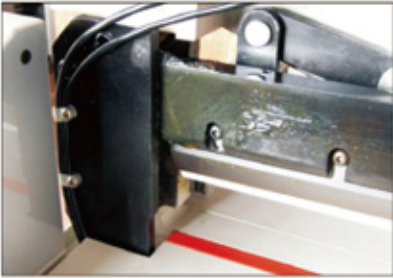


- ▶ One cutting stick can be used with 4 surfaces; and each surface can be cut in two times.
- ▶ One time can be cut many cuts. When slash on the shim is too deep, you should adjust or change cutting stick;
- ▶ Knife shim can be took out by screw, and should be assembled onto the cutting desk flatly when it needs to be set back;
- ▶ Knife shim should lean to the left side, then re-push the front brace plate;

Note: when the blade is replaced, the blade itself must also be adjusted. If the blade eat too deep, not only "easy to damage the blade, but also make the blade accelerated wear.

1. Lubrication

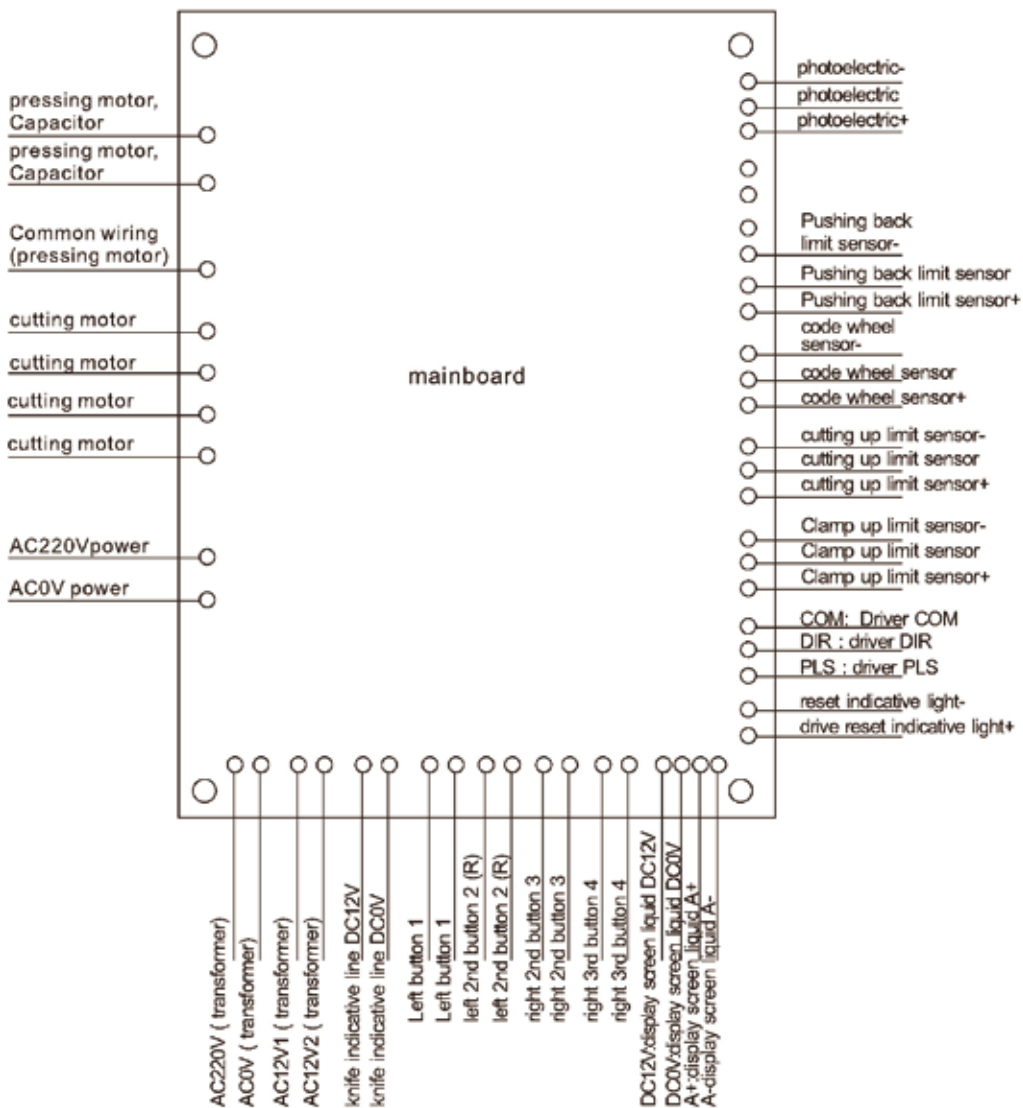
The machine should open the cover plate, check and clean, tighten the parts and lubricate the moving parts once a month. Please be careful to avoid lubricating oil on electrical circuits or electronic components when refueling. To avoid breakdowns.



2. Maintenance

1) When the machine is running, foreign objects are forbidden to put on the machine, because if hard objects come under the blade, the blade will be damaged. There should be no staple pin in the book, which is coming to the cutting area, to avoid damaging the blade.

2) After everyday work, you should wipe the machine, remove junk, wax the blade to protect it, and cut the power.



V COMMON ERROR AND ELIMINATION

Error	Phenomena	Elimination method
Irregular paper-cutting or too big difference	The cut paper has one side wide and the other side narrow, or has big deviation on dimensions	Loose firm screw, and use a ruler to adjust the angle between measuring scale and paper-pushing plate
The knife can't reset or works up and down continuously	The button is invalid. The blade works up and down without stopping	1.The sensor is displaced or damaged. 2.Circuit main panel is damaged
LCD can't display	No power and buttons are invalid	1.Check power is normal or not 2.Check transformer is normal or not
LCD display or display wrong	Normal button of power Source is invalid.	Check display board,mainboard, electronic circuit part
Digital-controlled circuit damaged	Paper-pushing part is not working	1. Check stepping motor, driver 2. Check whether main board is damaged.
Alarm for displaying F-1	The button is invalid and cutting action stops	Check the flash Check the control panel
Alarm for displaying F-2	Cut normally, but clamp can't return the original position.	1.Check press up limit sensor 2.Check the mainboard
Alarm for displaying F-3	Cut normally, clamp is not coming down normally	Check code wheel sensor near pressing motor Check the mainboard
Alarm for displaying F-4	cut normally, the cutting blade return original position abnormally	Check up limit sensor of blade carrier Check the mainboard
Alarm for displaying F-5	Cut normally, but paper pusher can't limit and adjust.	Check pushing back limit adjust sensor Check the mainboard

When the hand and books are put in the working area, The blade and clamp won't work. Any button is valid.

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