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Introduction to BLADE

- BLADE is a professional cutting system specially developed by our company for Paint Protection Film
- Massive vehicle model database, professional graphics processing parts. The professional database development team continuously updates the latest model database.
- Compared with other film cutting systems on the market, the BLADE system is comprehensive and accurate in the model database, the operating software is simple and professional, and the accuracy and stability of the film cutting equipment are greatly improved. Leading advantage!

Installation

- ① Once your BLADE account has been created, you will receive an email containing the software **download link**, **serial number**, **username** and **initial password** (It is recommended that you [change your password](#) at this time)

Thank you for registering BLADE



blade@ <ppfcut.comblade@ppfcut.com>
To ● LEGEND BLADE

Welcome,

Thank you for registering to use BLADE!

We hope you enjoy using BLADE!

This email contains important information about your account. Please save for future reference.

Download link: <http://download.ppfcut.com>

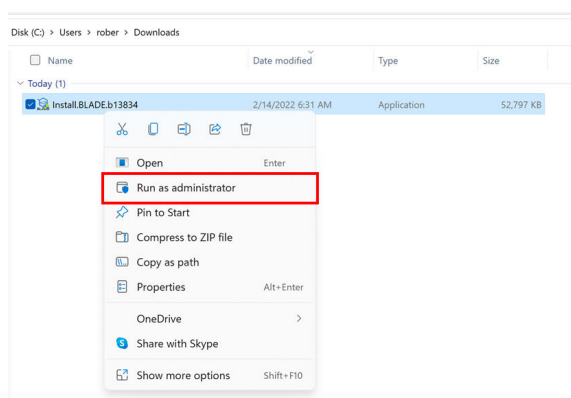
Serial number: [REDACTED] ACE9

Username: blade-Support

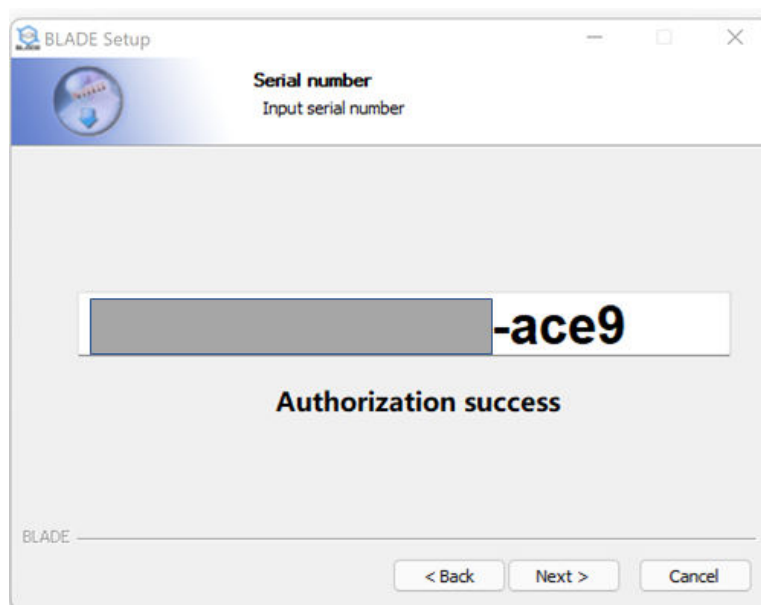
Initial password: [REDACTED]

Please run the installer as an administrator and set BLADE to trust in the security software, otherwise it may cause the software to fail to install and run normally. To ensure account security, please modify your login password on the control center page after the first login.

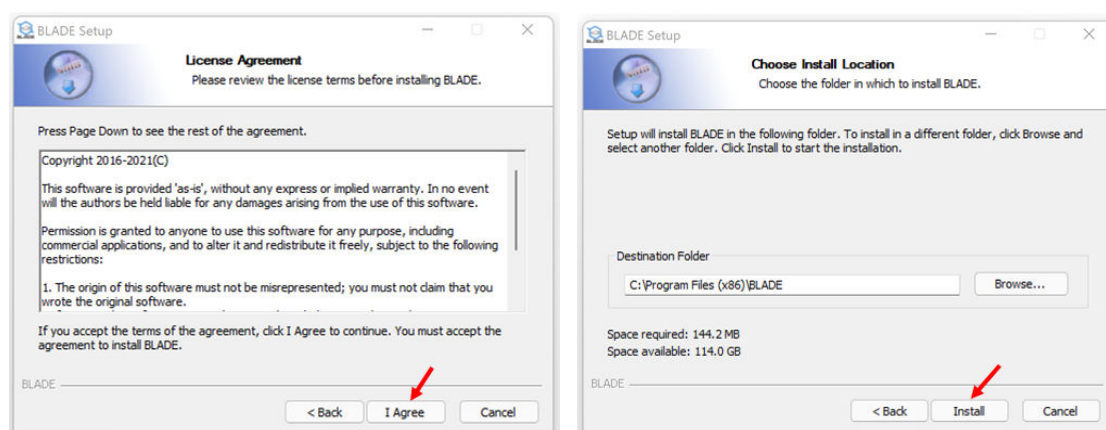
- ② Click the **download link** to download the latest installation file. After downloading, right-click "**Run as administrator**" and wait for the installation,



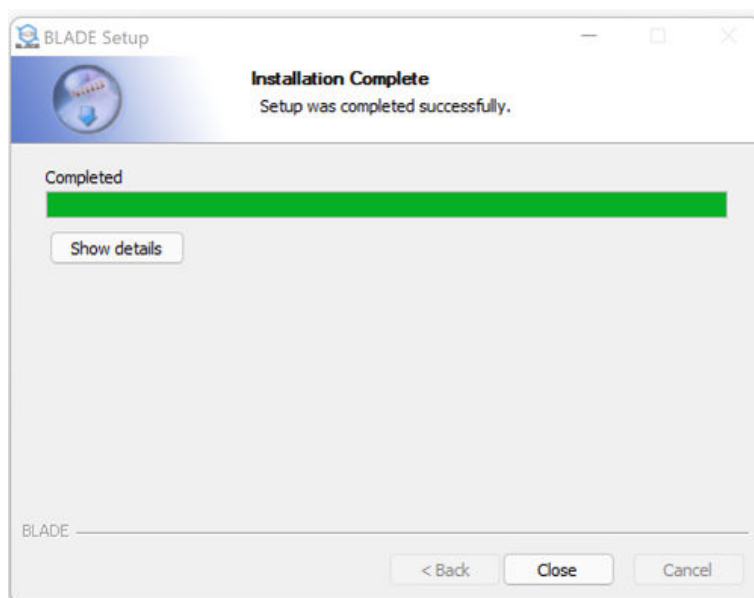
- ③ Input **serial number**, including the dashes, or copy the complete serial number and wait for authorization success, then click "Next";



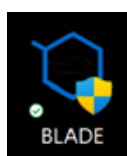
- ④ Read the license agreement and click "I Agree" to proceed; Click "Next" to install software and shortcut. Select the folder to install in, and click "Install" to start the installation.



- ⑤ Wait for installation to complete and the following picture appears. Then close it;



⑥ Double-click the "**BLADE**" icon on the desktop to enter the program. The software update will be automatically loaded and installed. If the update is large, please wait patiently.



⑦ After loading has finished, enter your **username** and **password** (from email) to log in. You can also check "**Save password**" and "**Auto Login**" for convenient login. Also, you can **change servers** if you find network speed is slow: click the small plus sign in the upper right corner of login interface, then select the appropriate server what you need.

Login

SERVER +

Username blade-support

Password *****

☒ Save Password ☒ Auto Login

Login Cancel

x32

Login

Server Europe

Username blade-support

Password *****

☒ Save Password ☒ Auto Login

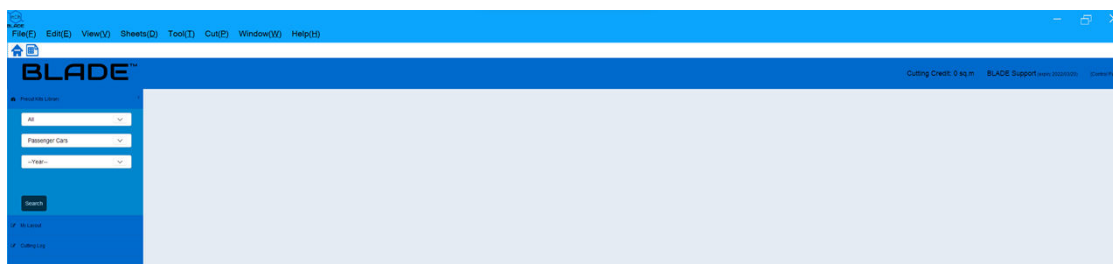
Login Cancel

x32

1 Use of BLADE

1.1 Interface introduction and initial setup

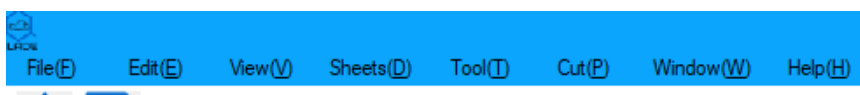
Log in and enter the homepage



Our software has two functional areas, the layout query area (homepage) and the kits edit area (sheet). Vehicle year, make, and model, can be selected to access the vehicle kits in the database and output to the sheet for editing and cutting.

1.1.1 Introduction of homepage

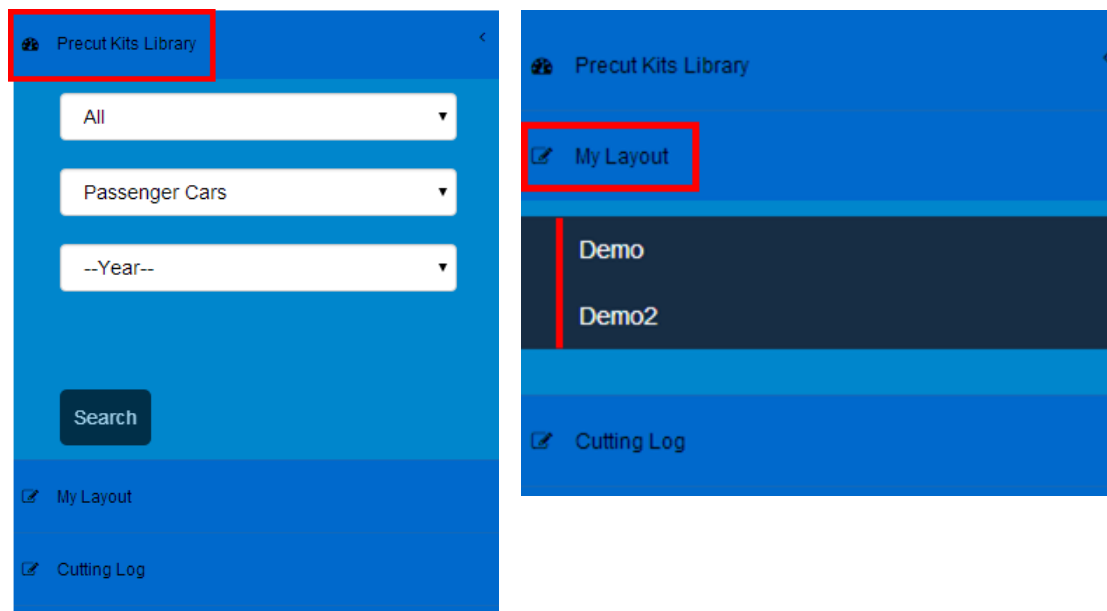
The top of the homepage is the menu bar, which contains some common operations and settings.



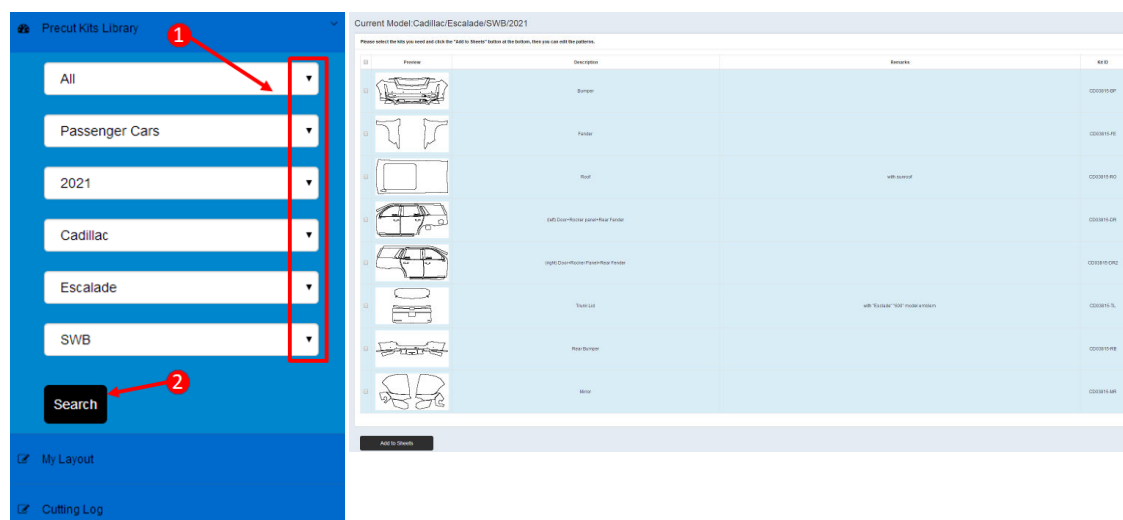
The second row is the navigation bar. There is a **homepage** icon and a **sheet** icon, to toggle between sections.



① On the left side of the homepage is the **Precut Kits Library**, **My Layout** (the edited layout can be saved here), and the **Cutting Log**. **BLADE Customized Kits** has been created in **My Layout**, which is a private customization area.



② On the right is '**The Layout**'. Select the vehicle year, make, and model in 'Precut Kits Library' section and click 'search' to show the component data of the corresponding vehicle model in 'the layout'.

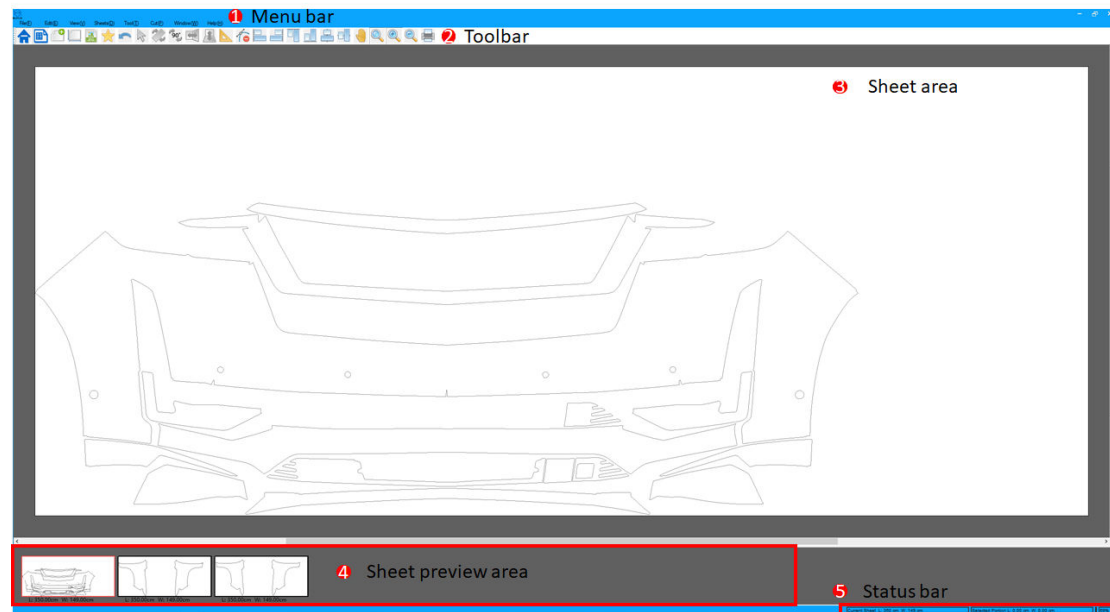


③ At the top right is the account information. By clicking **Control Panel** you can view more detailed content, including changing the password.



1.1.2 Introduction of sheet

Click the 'sheet' icon in the navigation bar to enter the sheet. At the top of the sheet are the menu bar (1) and the toolbar (2), the middle is the sheet area (3), and below are the sheet preview area (4) and status bar (5).



Add sheet: Create a new blank sheet. The precut kits checked from the kit library will be added to the new sheet.

Resize: Adjusts the size of the current sheet

Export JPEG file: Output a picture file for easy comparison

Save Layout: Save the layout you edit for future viewing and use

Undo: Undo the last step

Select: Click to enter edit mode, then single-click to select a single part, drag or hold down Ctrl and left-click. Can select multiple parts.

Rotation: The default rotation point is the center. If the center of rotation is shown, the center of rotation can be changed

Rotation 90°: Rotate 90° clockwise

Flip Vertically: Symmetrical up and down

Flip Horizontally: Symmetrical left and right

Tape Measure: Select the starting point and the end point to measure the distance between the two points; accurate to 0.01mm

Portion Delete: Removes unwanted part lines

Align Left: Left align the selected kits

Align Right: Right align the selected kits

Align Top: Top align the selected kits

Align Bottom: Bottom align the selected kits

Align Horizontal center: Alignment of horizontal center lines for selected kits

Align Vertical center: Alignment of vertical center lines for selected kits

Move sheet: Click into sheet mode, and the mouse turns into a small hand style. Then drag to move

Adaptive display: Move the sheet to the central display

Zoom in: Zoom in the sheet

Zoom out: Zoom out the sheet

Cutting: Output to cutting machine cutting

1.1.3 Change password

① View user information and change passwords

Click the control center on the right of the homepage to enter the "My Profile", which includes user profile, subscription, validity and balance, including change password.

The screenshot displays the 'My Profile' page with the following sections:

- User Profile:** Username: blade-support, Nickname: BLADE Support, E-mail: support@engendblade.com, User Type: Brand User.
- Subscription:** Pay by: by Admin, Cutting Limit: Limited.
- Validity:** Expiry: 2022/03/20, Days Remaining: 33.
- Cutting Credit:** Remaining: 0 sqm.
- Unit of Measurement:** Metric Unit (selected), Imperial Unit.
- Security Settings:** Password: A high-security password can make the account more secure. It is recommended that you change your password regularly and set up a password that contains numbers and letters and is more than 8 digits long. **Change password** button.

Red arrows indicate the navigation path: one points to the 'My Profile' link in the top right, and another points to the 'Change password' button in the Security Settings section.

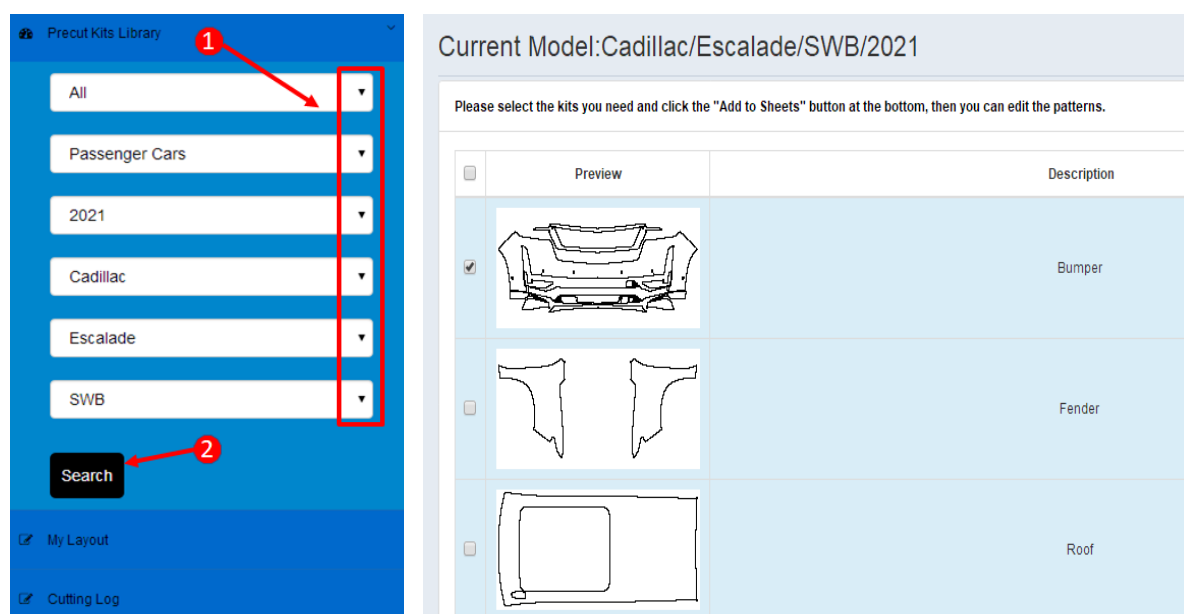
1.2 Import kits

1.2.1 Select kits

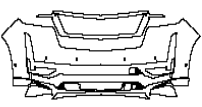
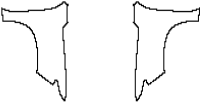
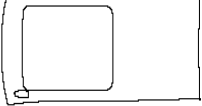
Click on the drop-down bar in **Precut Kits Library**, choose year, make, model, and sub-model. Click "search", and "precut kits" on the right will list all kits we need for you.

Note: ① You can select the next column only after the previous column is selected in the drop-down column.

② After selecting a column, wait for the list to refresh for a while before the next column is displayed correctly.

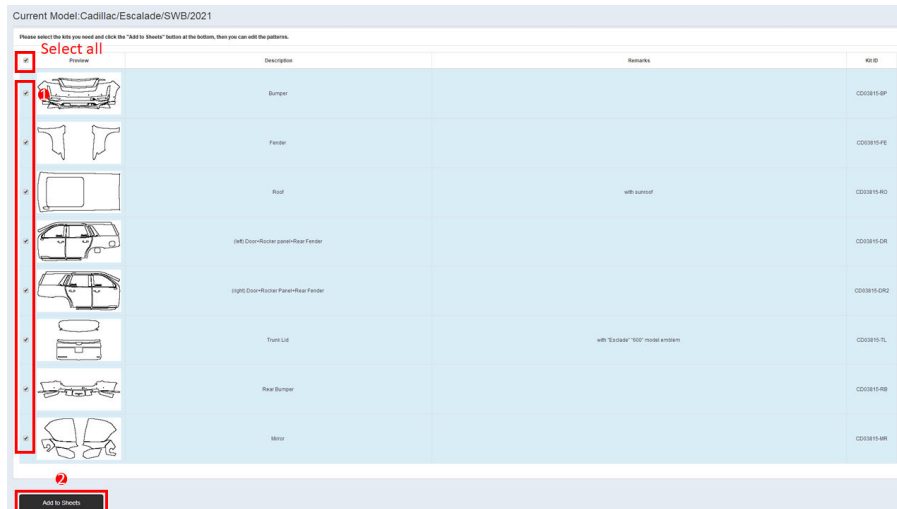


The screenshot shows the 'Precut Kits Library' interface. On the left, there are six drop-down menus for filtering: 'All', 'Passenger Cars', '2021', 'Cadillac', 'Escalade', and 'SWB'. A red box highlights these menus, with a red arrow labeled '1' pointing to the first one. Below the filters is a 'Search' button, with a red arrow labeled '2' pointing to it. On the right, the 'Current Model' is set to 'Cadillac/Escalade/SWB/2021'. Below this, a message says 'Please select the kits you need and click the "Add to Sheets" button at the bottom, then you can edit the patterns.' A table lists the available kits:

	Preview	Description
☒		Bumper
☐		Fender
☐		Roof

1.2.2 Import to sheet

Check/Select the kits you need and click "**Add to Sheet**". You can check multiple or check "**select all**", which will be automatically added and arranged to the same sheet.



1.3 Adjustment of sheet

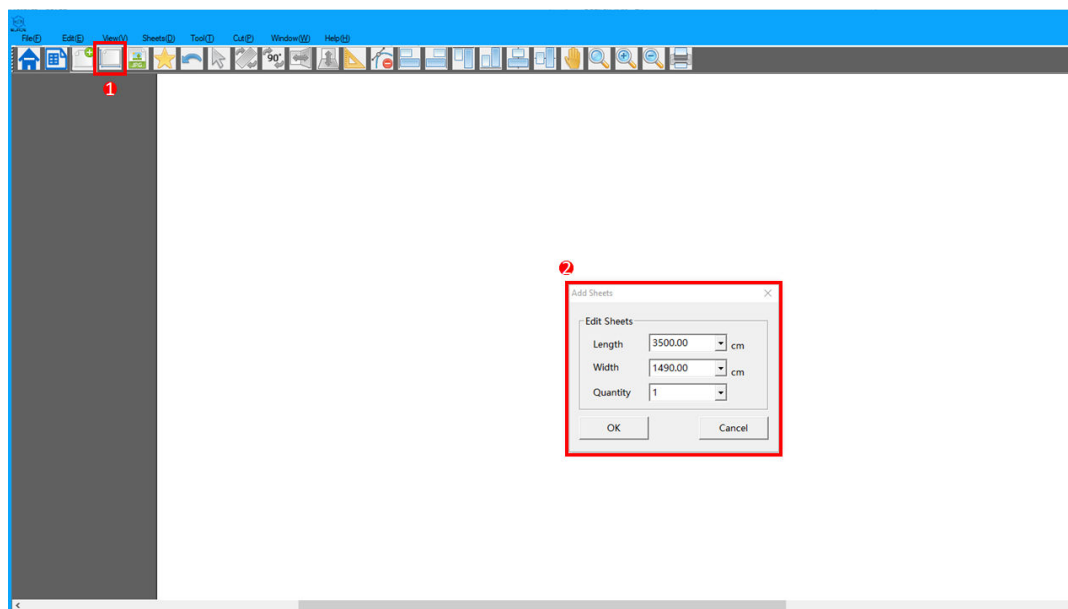
The sheet interface is an intuitive display of the layout boundary, which is not reflected in the cutting film. Adjust the sheet in order to edit conveniently.

1.3.1 Setting length and width

Recommendation: Edit the size of sheet before editing the kits. You can see it under the small sheet in preview area, or in the status bar.



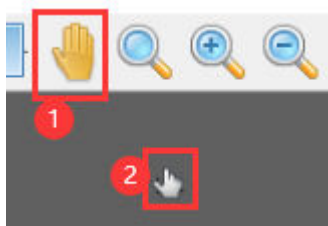
The sheet is set to be 3500 cm. long and 1490 cm. wide by default, as shown picture below (Notice: if multiple kits are added, the software will automatically extend the length of the sheet). Click "**resize**" to set it as required.



1.3.2 Move sheet

Moving the sheet to a suitable position for easy display does not change the size of the kits.

Hold down the **space bar** to drag the sheet directly; or click “**move sheet**” in the toolbar, and the mouse will turn into a small hand style. Press and hold the mouse to drag it.



You can also zoom in or out of the sheet by clicking **zoom in** or **zoom out**; you can also use Alt+ mouse wheel to enlarge or reduce the size of the sheet display.



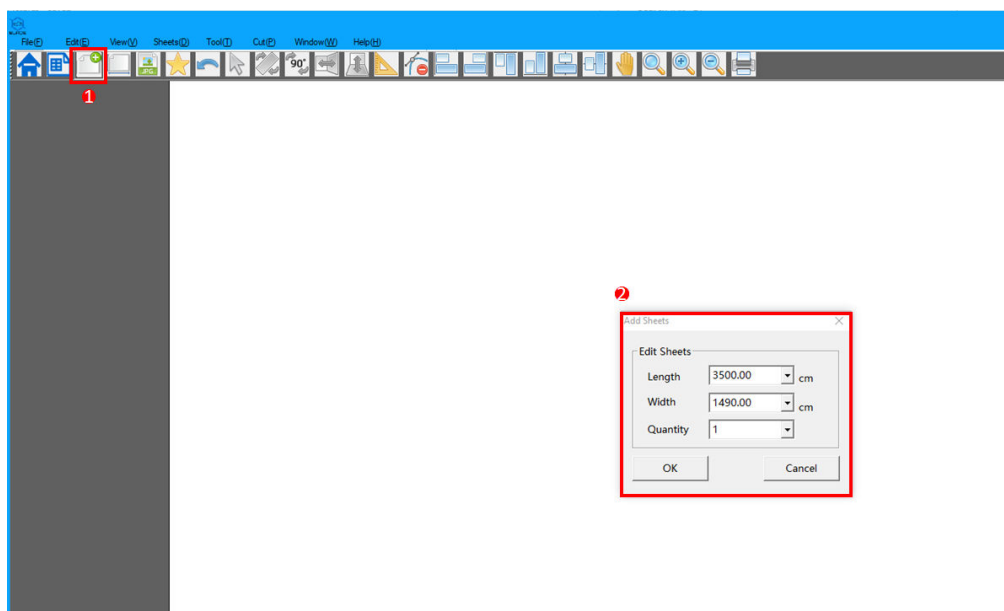
Click **reset zoom** to move the sheet to center quickly.



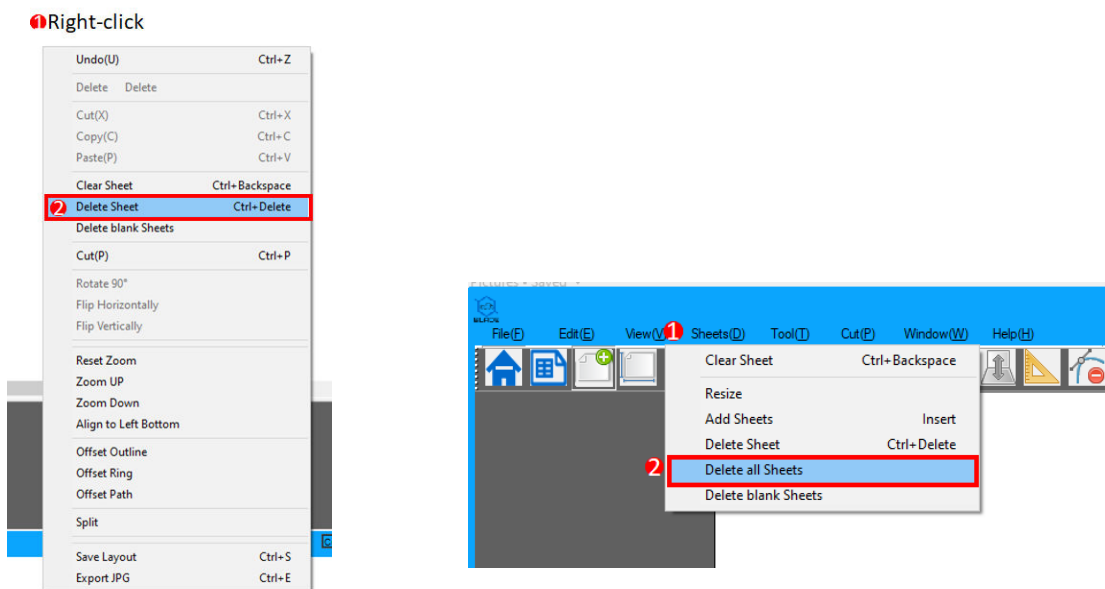
1.3.3 Add and delete sheets

① Click "**Add sheet**" to add one or more blank sheets. Set the length and width.

You can also use the shortcut key "Insert".

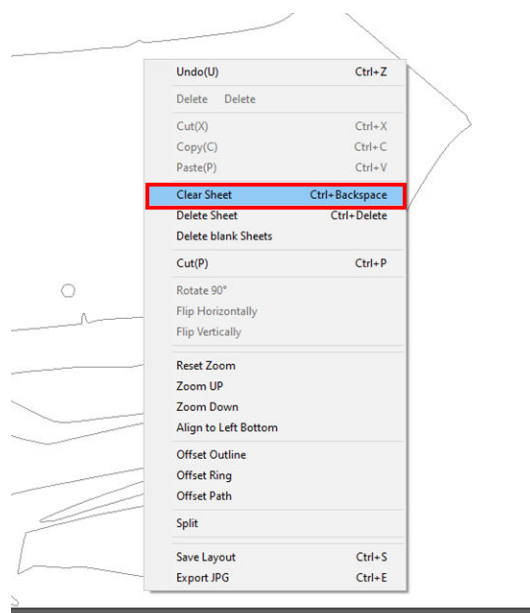


② Right-click the sheet and click "delete sheet" to delete the current sheet; or use the keyboard shortcut "Ctrl +Delete"; If you want to delete all sheets quickly, click "Sheets" on the menu bar to select. Of course, the above functions can be achieved in the menu bar.



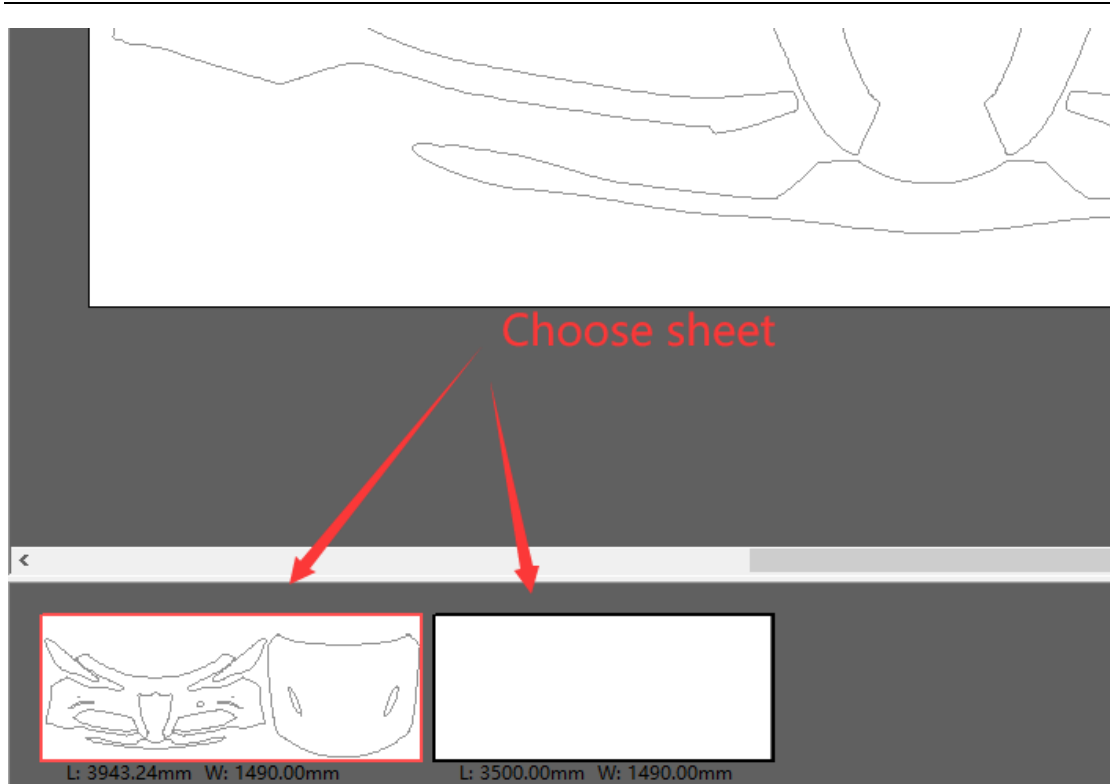
1.3.4 Clear sheet

If you want to clear the sheet, you can right-click on the sheet and click “**clear sheet**” or use the shortcut “Ctrl +Backspace”.



1.3.5 Switch sheets

Click sheet in “sheet preview area” to switch to the corresponding sheet and then edit it.

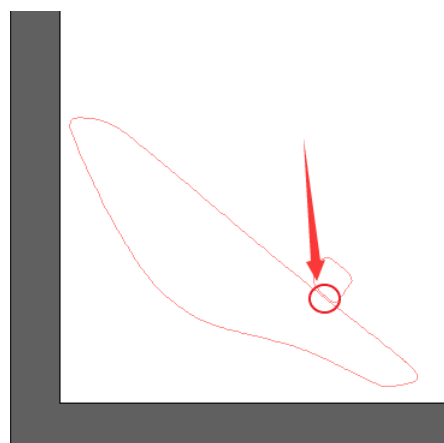


1.4 Edit the Layout

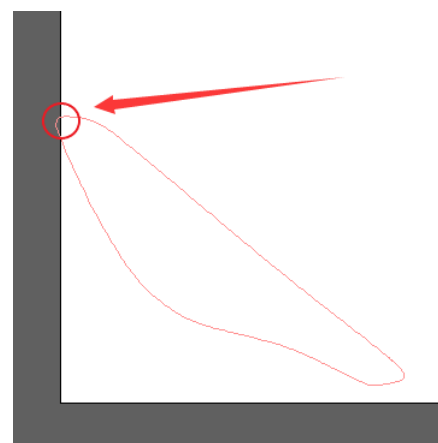
You may need to modify and combine kits to fit the layout.

1.4.1 Kits status

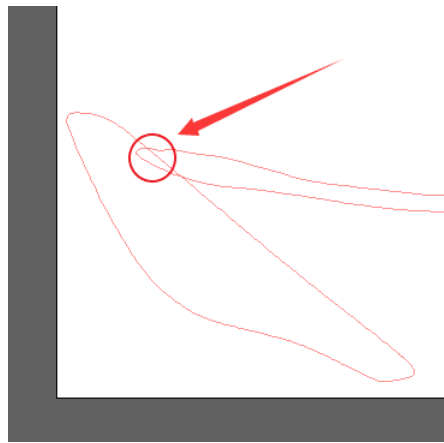
For the parts in the sheet, red indicates that the part is beyond the boundary (a), infinitely close to, (b) outside plotter area, or (c), overlapping. This will not allow quality cuts and will need to be adjusted. Black indicates normal cutting (d). The image will need to be manually adjusted before plotting.



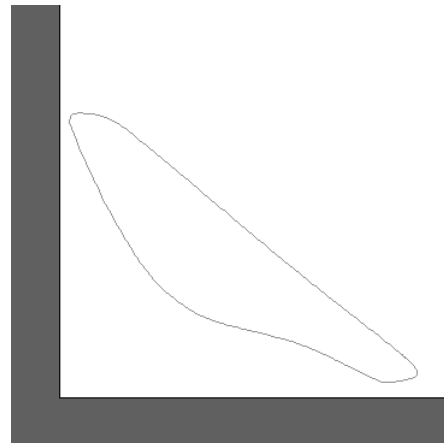
(a)



(b)



(c)

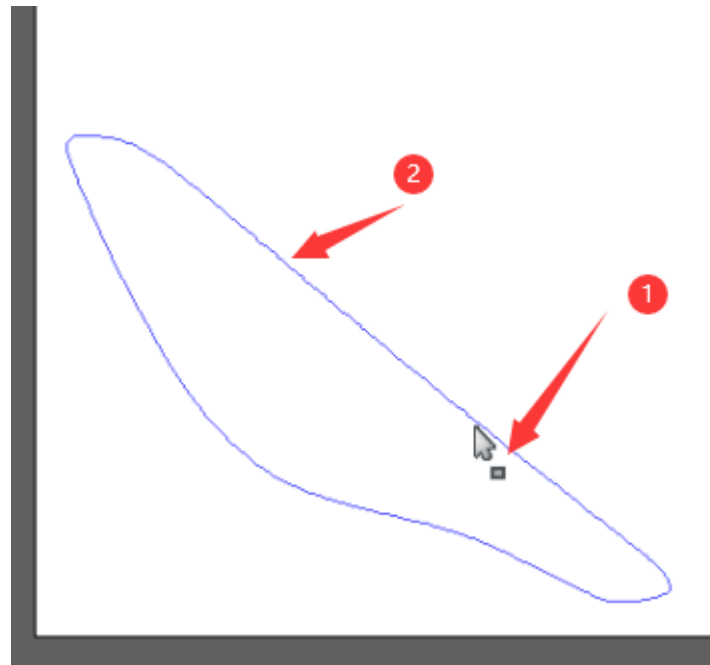


(d)

1.4.2 Select

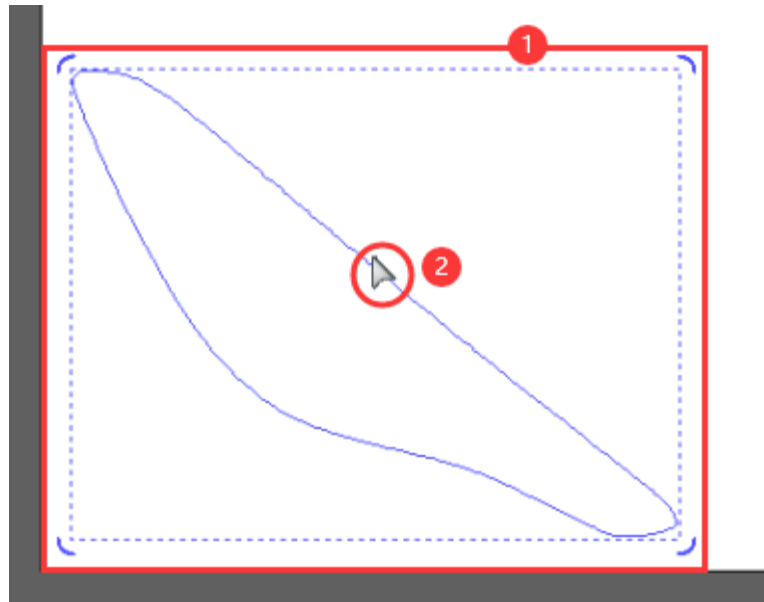
Click the select button to enter the **edit mode** and the mouse will turn into the arrow style (Figure 1). Move the mouse over the part and the part will turn blue (Figure 2). Click to select the current part for editing. You can also select multiple parts by dragging mouse or holding down “Ctrl” to select multiple parts.

Note: In other modes (note the mouse state), you need to click the select button to go back to edit mode to click the widget.



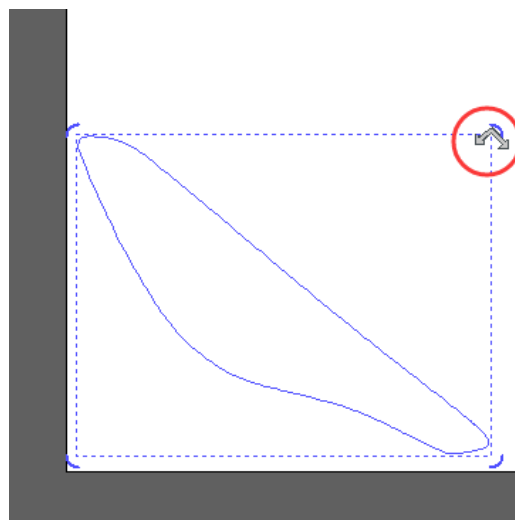
1.4.3 Move

After select the part (Figure 1), move the mouse to the part until the cursor becomes a small triangle (Figure 2), then drag, or use the keyboard arrow $\uparrow \downarrow \leftarrow \rightarrow$ for accurateness;

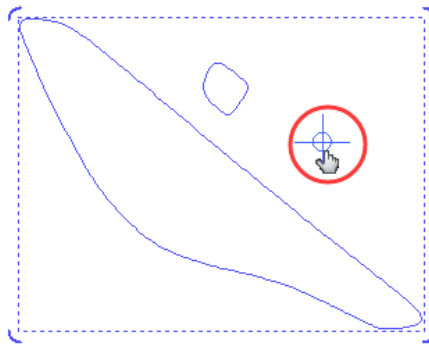


1.4.4 Transform

Move the mouse to the four corners of the edit box and turn the cursor into a double arrow.



If more or larger parts are selected, a rotation center shown and can be adjusted. The initial center is the cross style, and the rotation point can be dragged to other areas for rotation adjustment.

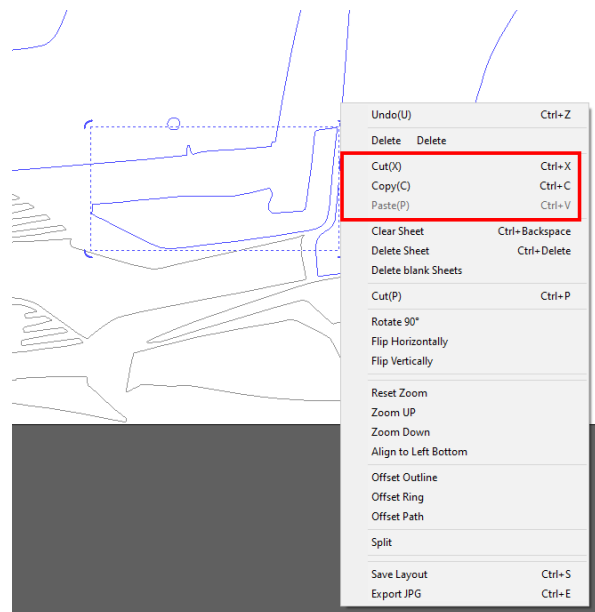


Use the adjustment button in the toolbar to rotate, symmetry, align, and adjust to the desired effect.



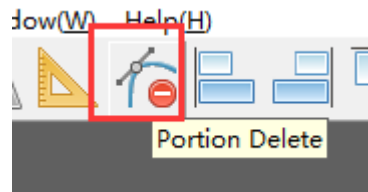
1.4.5 Cut Copy Paste

Use cut, copy, and paste to integrate typography from different sheets into one sheet. For the part to be edited, click on the part to [select](#), then right click on the part to select the corresponding operation, and then move to the desired position for the steps. Or use shortcuts to be quickly: cut "Ctrl +X", copy "Ctrl +C", paste "Ctrl +V".

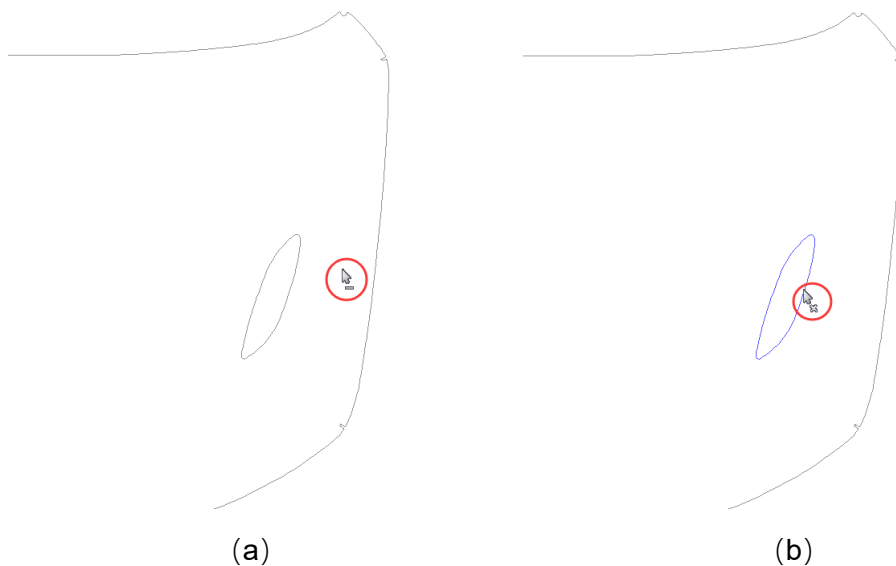


1.4.6 Portion delete

For unwanted parts, you can use “portion delete”.

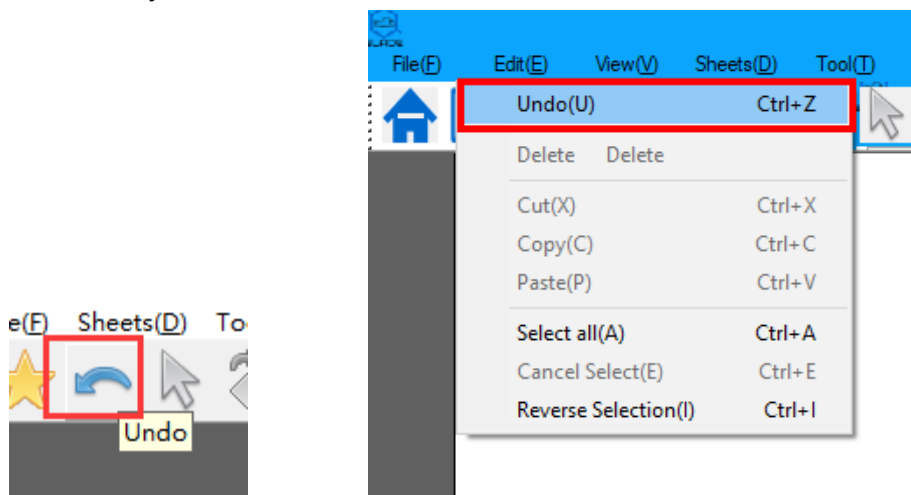


Click **portion delete** to enter the delete mode, and then the mouse will turn into this (Figure a). Then move the mouse to the unwanted line until it turns blue (Figure b), then click to delete.



1.4.7 Undo

If you make a mistake, you can revert to the previous operation, using the undo command. Click the Undo(U) icon, select edit/undo from the menu drop down bar, use the keyboard shortcut “Ctrl + Z”.



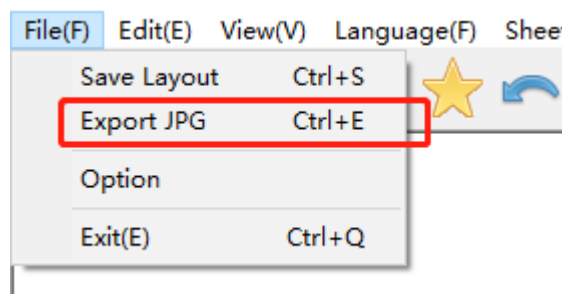
1.5 Convenient functions

1.5.1 Export pictures

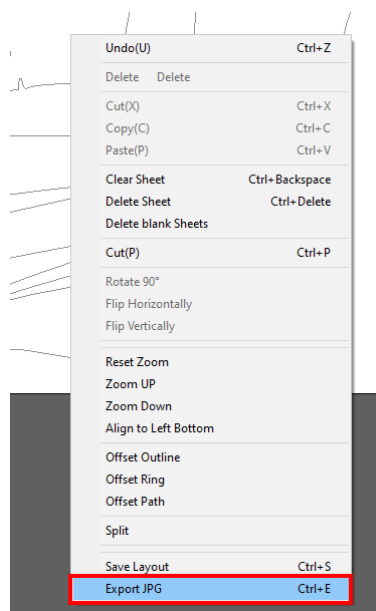
This feature makes it easy to save the finished layout as picture for print reference.

Here are three ways to do it:

- ① Click on the menu bar “file” and click on “export JPG”;

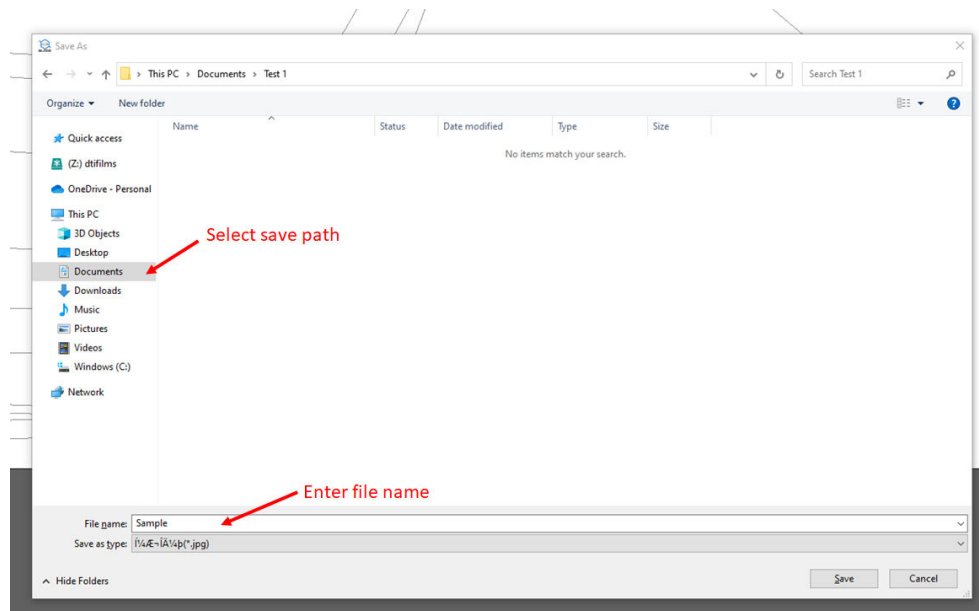


- ② Right-click on the sheet and click Export JPG;



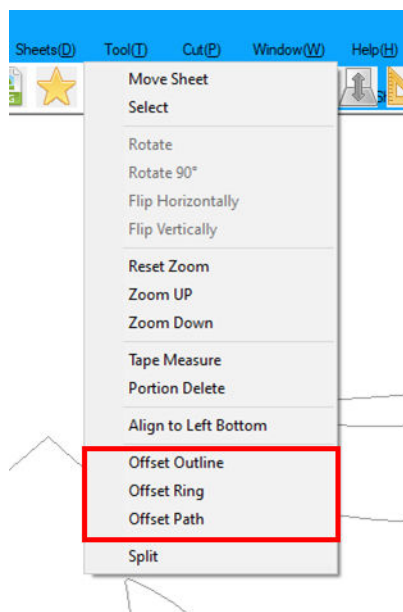
- ③ Shortcut “Ctrl + E”

After clicking "Ctrl + E", the save window pops up. Enter file name, select save path, (default to "My Documents") click “save”, and then you can view it in the corresponding folder.



1.5.2 Offset

Click the menu bar tool to select the package edge; or right-click on the sheet to choose.

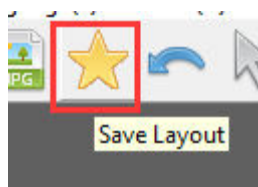


For the use of the wrapping edge, please refer to the following. For the specific operation process, please refer to the video:

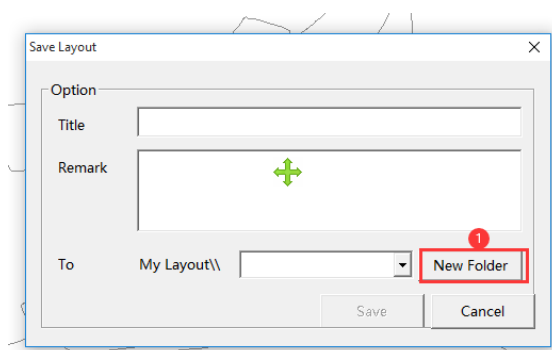
	The range	How to use it	Note
①Offset outline	All outline	Right-click to select the outline package edge. The red line is the wrap edge range, the upper right corner is needed to set the package edge width. Here set to 10mm, select the part has a corresponding preview, and then click the package edge.	Individual parts can be selected to wrap the entire sheet directly
②Offset ring	All line (include inside and outside)	Select offset ring on the same side; then select the required line	Only one line can be selected at a time
③Offset path	Segment	Select offset path on the same side, click select two endpoints; then click on the segment that you need	

1.5.3 Save layout

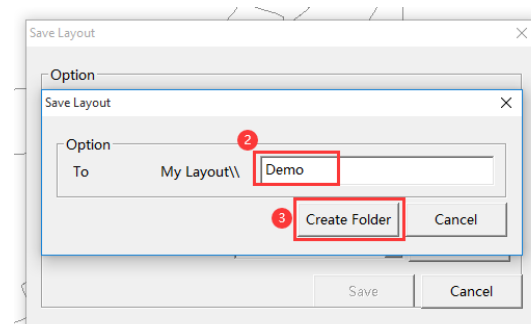
If you have adjusted the layout and wish to keep it, you can save it.



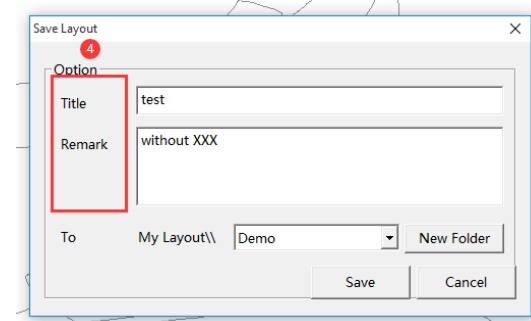
Click “**save layout**”, or use the shortcut “Ctrl+ S”. Select “save”, if there is no folder, select “new folder” (Figure 1);



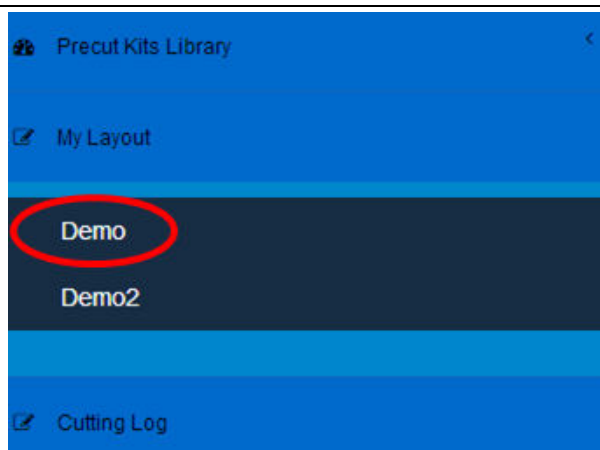
Input the folder name (Figure 2), create a new folder (Figure 3);



Input name and remark (Figure 4) to save.

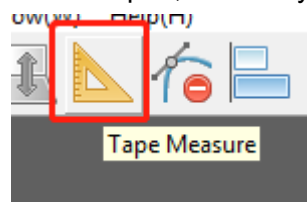


At this point in the homepage data query area "My layout" can be seen.



1.5.4 Tape measure

If you want to measure the size of the parts, you can use the tape measure tool; Click “tape measure” in the toolbar and enter the measuring mode. When the mouse changes icon to a pen, it is ready for measuring.

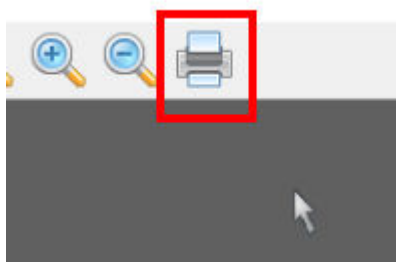


After clicking, hold down the mouse from the start point to the end point to measure the distance between the two points. The data is accurate to 0.01mm



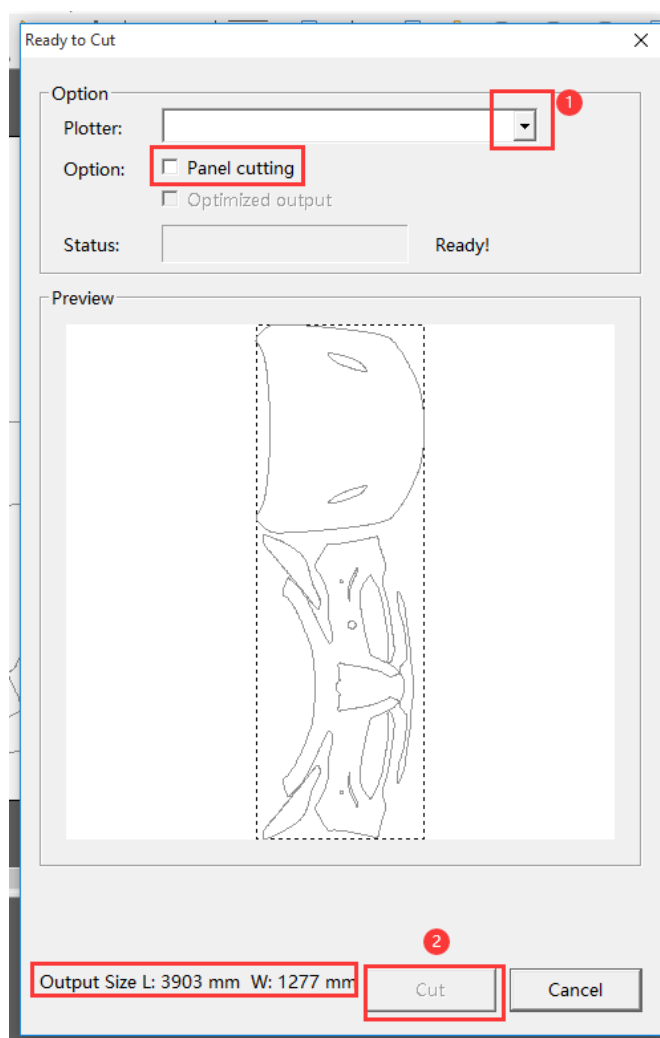
1.6 Cutting

After adjusting a layout, it can be sent to the plotter for cutting. Click “cut” (Printer icon) in the toolbar, or use the shortcut “Ctrl +P”;



Use the drop down box and select the corresponding plotter in the drop-down bar (Figure 1). Check “panel cutting” to reduce the risk of long cutting and the loss caused by mis-cutting. The output size information of the cut portion is displayed below.

Confirm that the output size is smaller than the size of the film, and click “Cut” (Figure 2).



The data will be

1.7 Shortcut

Space + Left mouse click	Move sheet
Alt + Scroll	Zoom in and zoom out
Ctrl + Scroll	Move left and right
Insert	Add sheet
Ctrl + Back Space	Clear sheet
Ctrl + Delete	Delete sheet
Ctrl + A	Select all
Ctrl + Left mouse click	Select
Ctrl +C	Copy
Ctrl +V	Paste
Ctrl +Z	Undo
Ctrl +X	Cut
Ctrl +E	Export .JPG
Ctrl +S	Save layout
Ctrl +P	Cut (Print)
Ctrl +H	Switch to Home
Ctrl +D	Switch to Sheet
Ctrl +Q	Exit