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YINK Plotter YK-T00X

User Manual



Safety Warnings

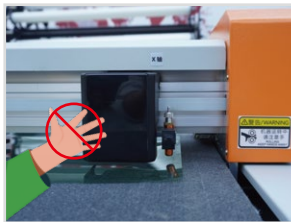
- Keep children away from the machine at all times.
- To ensure your safety, please read this manual carefully before operating the machine.
- Store this manual in a safe and accessible place for future reference.
- The following precautions are critical for personal and property safety; please follow them strictly.





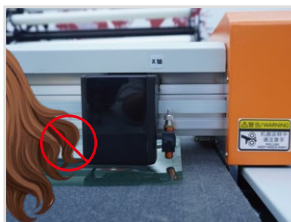
Handle the blades with care.

- Touching the blade tip or edge may cause injury.
- Do not touch the blades while the machine is in operation.



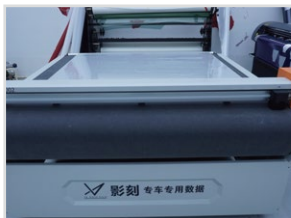
Avoid contact with the cutting carriage or any moving components while the machine is in operation.

- The cutting carriage holds the blade and moves continuously during cutting, and touching it may result in injury.



When the machine is stopped, keep hands, hair, clothing, jewelry, and other items away from the cutting carriage, belts, and other components, as the machine may receive data and start operating at any moment.

- Failing to do so may result in personal injury.



- Do not place any objects on the machine.
- This may cause the machine to malfunction.



- The machine must be grounded.
- Failure to do so may result in electric shock due to leakage.



- Do not disassemble, repair, or modify the machine without professional guidance.
- Improper handling may lead to electric shock or fire.
- Contact with high-voltage components inside the machine can cause electric shock.



- Use a power supply that meets the machine's requirements.
- Using the wrong power source may cause electric shock or fire.



- Do not use the machine in bathrooms, near water, or in areas exposed to rain.
- This could result in fire due to electric shock or leakage.



- If you notice smoke, excessive heat, or a strange odor, immediately turn off the power and unplug the machine.
- Continuing to use the machine in such conditions may lead to fire or electric shock.
- Contact the dealer or our service department for repairs.



- Keep the power connectors free of dust and metal objects.
- These could lead to fire or electric shock due to electrical leakage.



- Do not use the power cable if it is damaged.
- Using a damaged cable may result in fire or electric shock.
- Replace it with a new power cable immediately.



- Avoid placing or using the machine in direct sunlight or near heating or cooling vents.
- This can cause damage to the machine.



- Maintain a distance of at least 1 meter between the machine and any fluorescent or desk lamps.
- Close proximity to lighting may cause sensor malfunctions and errors in media detection.



- Avoid using the machine in dusty or humid environments.
- Such conditions can damage the machine.



- Do not operate the machine in areas with excessive vibration or electrical noise.
- This may cause damage to the machine.



- When unplugging the power or communication cables, always hold the connector firmly.
- Pulling on the cord itself may damage it, leading to fire or electric shock.



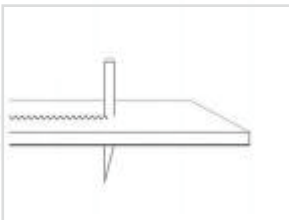
- Do not apply lubricants to the machine's components.



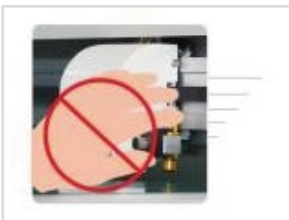
- Do not clean the machine with volatile oils like banana oil or benzene.



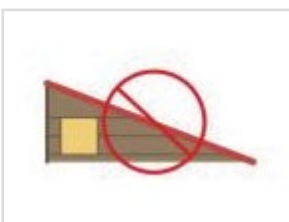
- Ensure there is sufficient space around the machine, and keep materials away from surrounding objects during operation.
- Failure to do so may result in collision or damage.
- It may also cause cutting or plotting errors.



- Be careful when using the blades, ensuring they do not extend too far.
- Overextending the blade may damage the cutting mat, affecting cutting quality.



- When manually rotating the carriage while loading media, do so slowly.
- Rotating the carriage too quickly may cause malfunctions.



- Do not place the machine on an unstable or slanted surface.
- This could cause the machine to tip over and lead to injury or damage.



- Keep magnetic cards, floppy disks, and similar items away from the cutting carriage.
- This may cause data loss or corruption on these storage devices.



- Always perform a test cut on media when unsure about the cutting conditions.
- Using incorrect settings can put excessive stress on the blade or the machine, leading to blade damage or mechanical failure.

Preface

- Thank you for choosing the YINK series automatic feeding flatbed cutting machine. To achieve the best performance, we highly recommend reading this manual thoroughly before operating the machine.
- While we've made every effort to provide clear and comprehensive information, we understand that questions or uncertainties may still arise. If you have any feedback, suggestions, or require further clarification, please don't hesitate to reach out to us or our authorized dealers.
- Please be aware that YINK is not liable for any damage or loss resulting from improper setup or use of the machine that does not adhere to the guidelines outlined in this manual.
- Specifications and product details may change without prior notice.





YK-T00X

This manual serves as a quick-start guide for the YK-T00X. Before using the machine, please read this guide carefully, especially the safety precautions. If you have any questions, do not hesitate to contact YINK or your dealer. For more detailed information on machine operation, please refer to the full manual.

1

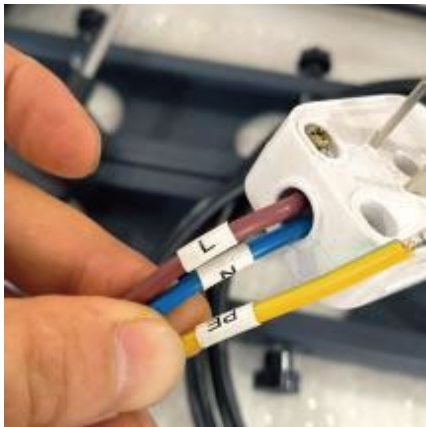
Inside the tool kit, you will find:

- 2 hex wrenches
- 4 material holder fixing screws
- 1 USB data transfer cable
- 2 blade holders
- 1 pen holder
- 1 box of blades (including 3 red cap blades and 2 blue blades)



220V Power Connection

The machine has a total power consumption of 3.7KW. It requires a 16A plug and socket, or it can be connected directly to a C32 air circuit breaker, ensuring proper grounding.



The machine comes with a 5-meter power cable, with the following connections:

(L)	Red wire	Connect to the live wire
(N)	Blue wire	Connect to the neutral wire
(PE)	Yellow wire	Connect to the ground wire

Air Pump Requirements

The customer needs to provide their own air pump with the following specifications:

Pressure	0.7 MPa
Capacity	50L air compressor
Air Hose	8mm diameter

Connect one end of the air hose to the air pump and the other end directly to the machine's air inlet.

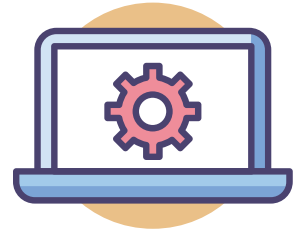


3

Computer Requirements

We recommend the following computer specifications, which can be met by most laptops. Ensure that the network connection is stable:

CPU	Intel i5-10400f with cooling
Memory (RAM)	16 GB
Storage	500 GB M.2 SSD
Graphics Card	GTX 1650 with 4 GB of memory

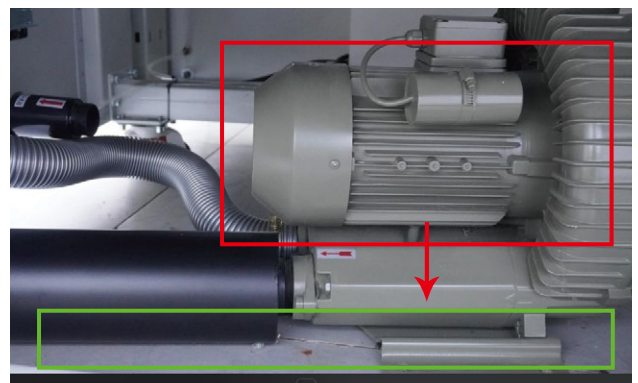
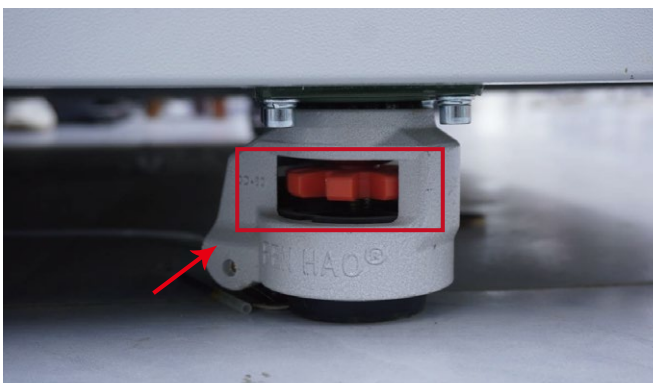


Once the computer is ready, use the USB data transfer cable to connect the computer to the machine.

Positioning the Machine

After positioning the plotter, turn the orange wheel on the underside of the machine counterclockwise to release the rubber pressure wheels, securing the machine in place.

Once the machine is locked in position, it is recommended to open the cabinet door and place the internal vacuum pump on the floor. This helps to prevent vibrations when the vacuum pump is activated, ensuring stable cutting performance.





II

Operating the YK-T00X

1

Installing the Blade

Installing the Red Cap Blade

1

Fully unscrew the blade holder and remove the red cap.

2

Insert the blade handle into the silver blade clamp, pushing it all the way in.

3

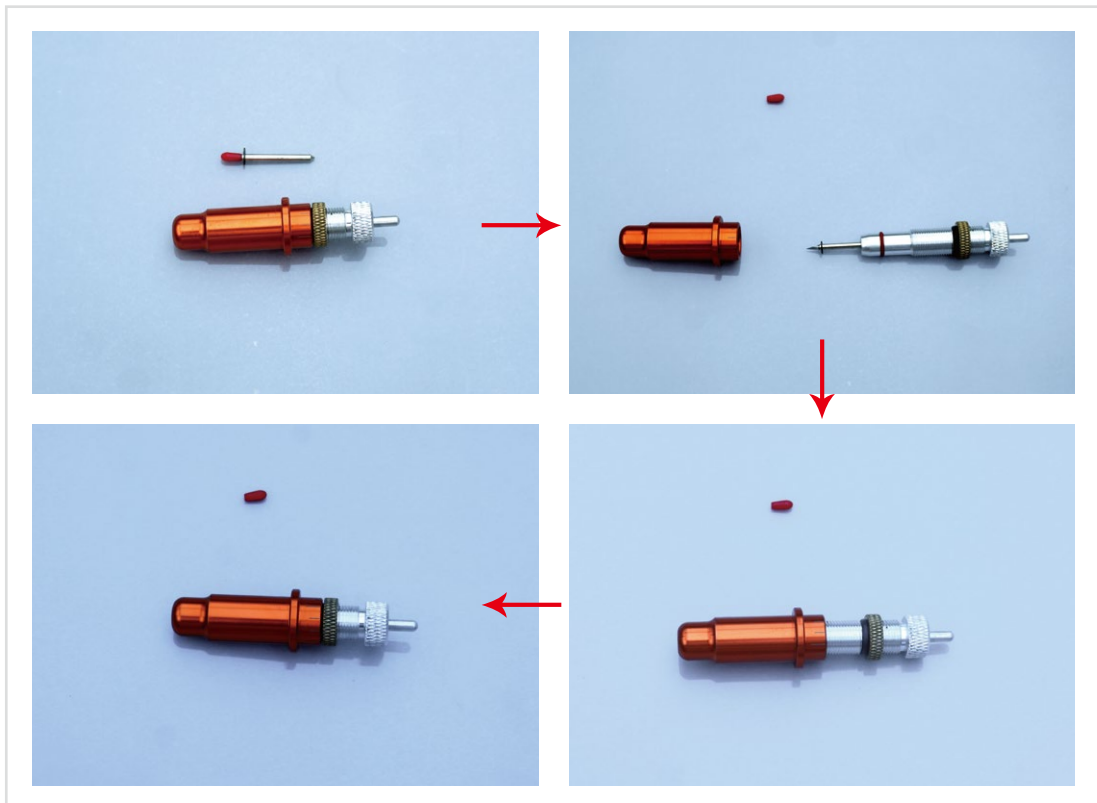
Reattach the blade holder casing.

4

Adjust the blade tip length using the silver ring.

5

Once the desired length is set, tighten the golden ring to secure it in place.



Installing the Blue Cap Blade

1

Remove the blue cap from the blade.

2

Insert the blade handle directly into the blade holder, pushing it all the way in.

3

Adjust the blade tip length using the silver ring.

4

Once the desired length is set, tighten the golden ring to secure it in place.



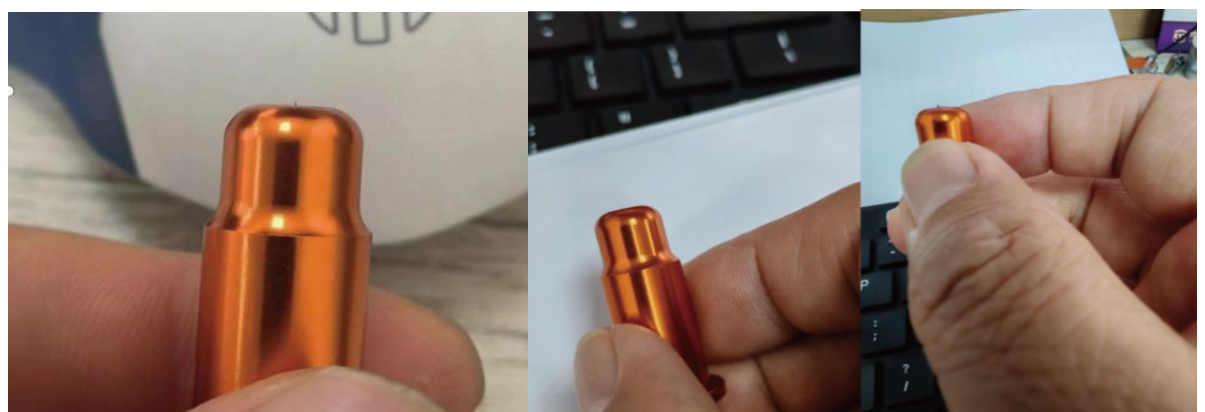
Adjusting the Blade Tip Length

1

The blade tip should extend slightly beyond the thickness of your material. Typically, the blade should protrude only about 0.3-0.5mm.

2

For the best results, keep the blade as short as possible while still ensuring it can cut through the material completely.

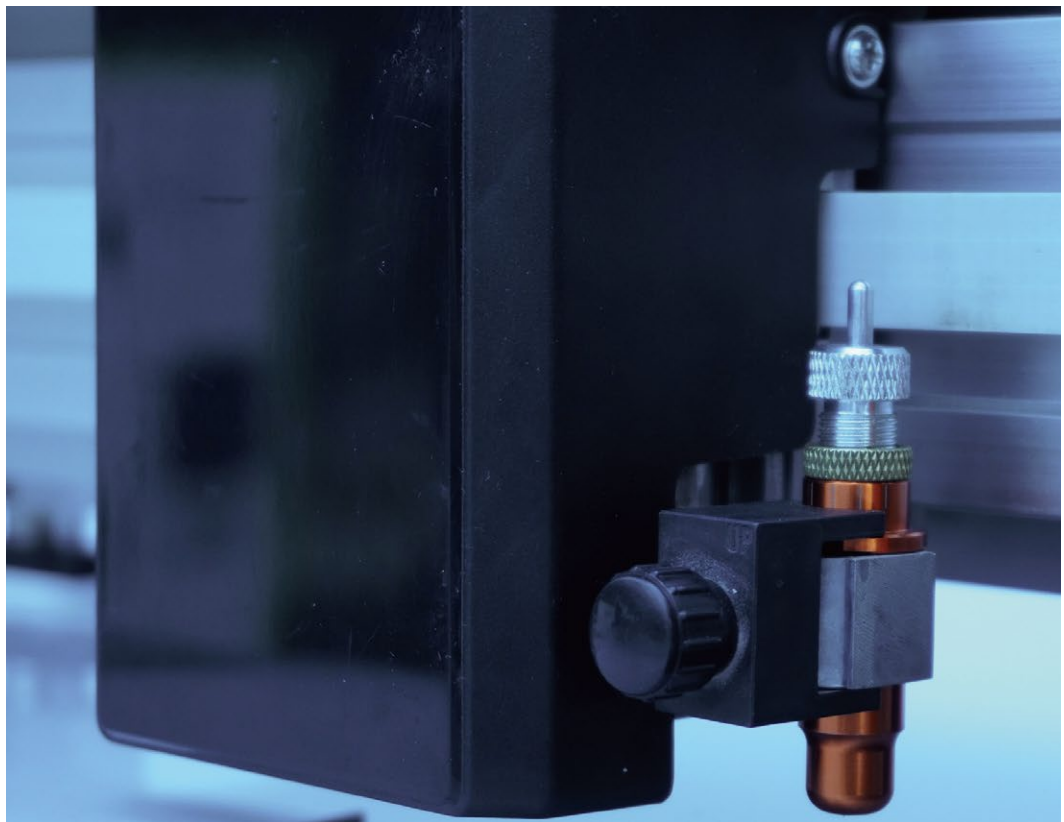


2

Installing the Blade Holder

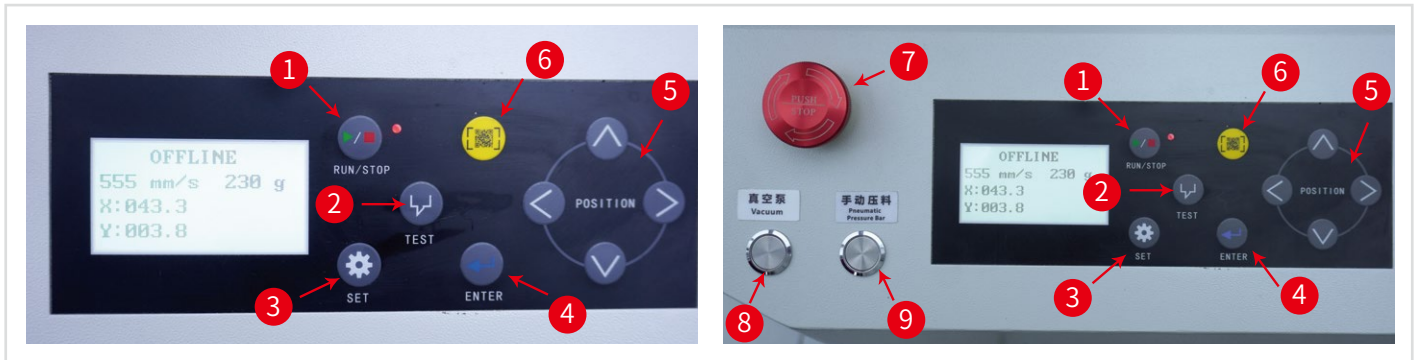
Once the blade is installed and the blade tip is properly adjusted, place the blade holder into the machine's blade clamp.

Ensure that the blade holder is fully seated at the bottom, then tighten the black screw to secure it in place.



3

Control Panel Functions Overview



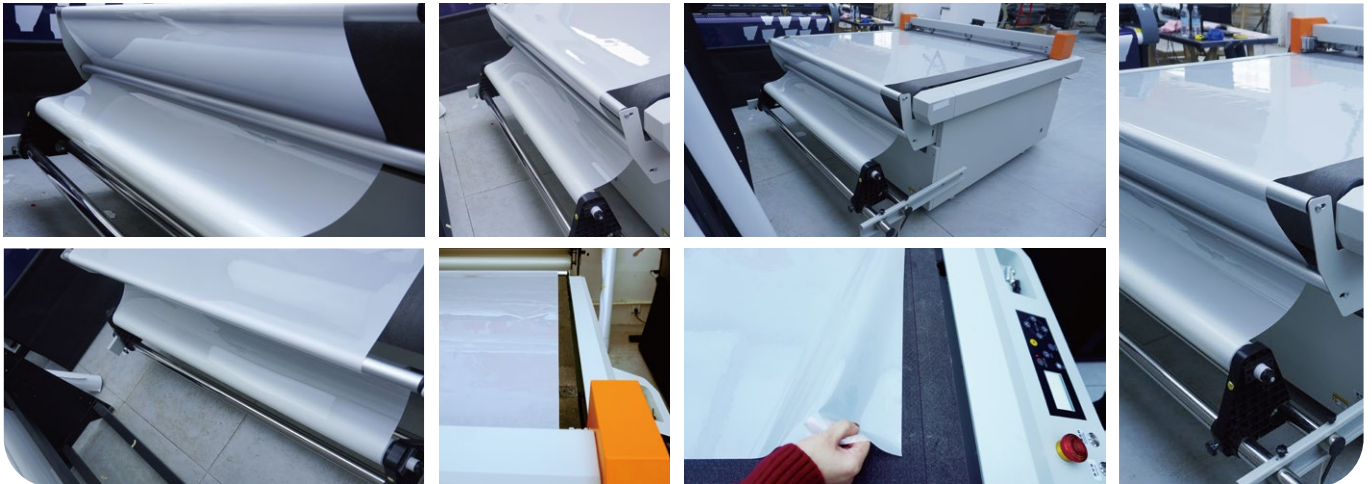
- 1 Run/Stop Button** → This multifunction button can be used to connect/disconnect the machine, pause cutting, or resume cutting after a pause.
- 2 Test Button** → Used to test the blade pressure.
- 3 SET Button** → Adjusts settings such as blade pressure, cutting speed, and corner compensation.
- 4 Enter Button** → Saves the modified parameters.
- 5 Position Button** → Controls the movement of the cutting head in all directions (forward, backward, left, and right).
- 6 Scan Button** → Moves the blade head to the factory default position with a single press.
- 7 Emergency Stop Button** → Quickly cuts off the machine's power supply in case of an emergency.
- 8 Vacuum Pump Button** → Manually starts or stops the vacuum pump.
- 9 Manual Feeding Button** → Activates the cylinder to press the material and felt for manual feeding, allowing front and back material adjustment.

4

Loading the Material

Place the film on the material holder, then thread the film through the rods as shown in the image.

Pull the film forward onto the felt surface, aligning the edges of the film with the guide line on the felt mat to ensure proper positioning.



5

Testing the Blade Pressure

1 Use the arrow keys to move the cutting head over the material.

2 Press the **"TEST"** button to initiate a blade pressure test. The machine will automatically start the vacuum pump and cut a square with a triangle inside it.

3 Check if the film has been completely cut through. If the film is fully penetrated, the blade pressure and tip length are correctly set.

- If the film is not fully cut through, increase the blade pressure and run the test again until the film is properly penetrated.

- If the blade pressure exceeds 300g and the material still isn't fully cut through, it's likely that the blade tip is not long enough. In this case, adjust the blade tip to a longer length and repeat the blade pressure test.



Adjusting the Blade Pressure

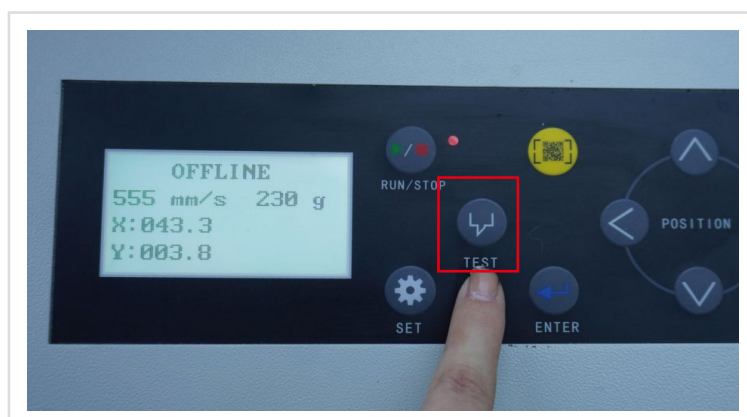
Press the **"SET"** button, and the display screen will show the settings menu.



Use the left and right arrow keys to navigate to the pressure setting option.

Then, use the up and down arrow keys to increase or decrease the blade pressure.

Once you've set the desired blade pressure, press the **"Enter"** button to save the new parameters.



Adjusting the Cutting Speed

We recommend setting the cutting speed of the plotter to **"300mm/s"** and the idle (non-cutting) speed to **"500mm/s"**.



Blade Selection

We typically provide three red cap ring blades and two blue cap blades. The red cap blades are generally used for cutting paint protection film (PPF), while the blue cap blades are suitable for cutting window tint film.

For corner compensation, set the red cap ring blade to **"0.75"** and the blue cap blade to **"0.53"**.



Please note that the corner compensation values differ between the two blade types.



6

Setting the Cutting Start Point

When setting the cutting start point, the movement of the carriage left and right is along the **"X-axis"**, while the front-to-back movement of the cutting bed is along the **"Y-axis"**.

After aligning the film's edge with the guide line on the felt mat, move the blade inward by 10mm.

At this point, the X-axis value should be around **"40"**.

The typical X-axis value should range between **"40-45"**, but it must not exceed 45.

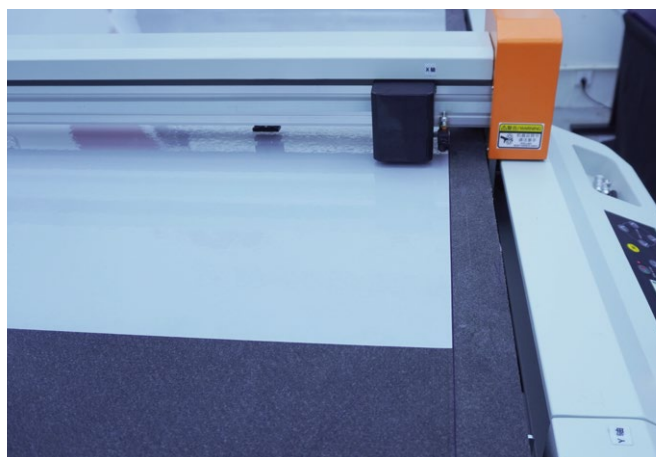
For the Y-axis, the typical value is between **"80-85"**.

Once the starting point is set, before each cut, press and hold the **"Enter"** button until a new screen appears.

Press **"SET"** to confirm the new starting point.

This ensures that in case of a power outage, you can return to the starting point and resume cutting.

After setting the starting point, press the **"Run/Stop"** button to put the machine into operational mode.





III

Transferring Cutting Data
and Operating the Machine

Transferring Cutting Data and Operating the Machine

Once the blade pressure is adjusted and the cutting start point is set, turn on the vacuum pump by pressing the vacuum pump button.

Then, press the **"RUN/STOP"** button to connect the machine.

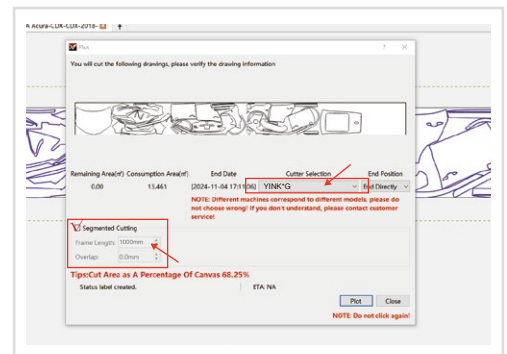
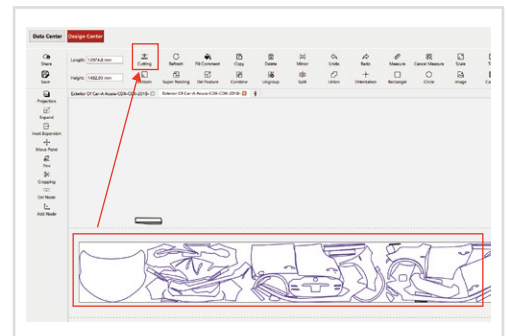
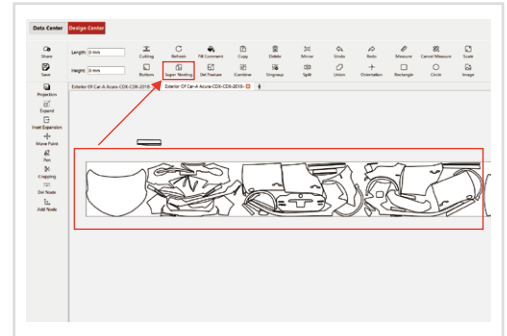
On your computer, open the YINK software.

Make sure to review the YINK software **"Cutting Tutorial"** before proceeding.

After reviewing, select the **"Cutting"** function.

Be sure to choose the "YINK*G" machine option. Select **"Segmented Cutting"**, and we recommend setting the **"Frame Length"** to **"1000mm"**, although this can be adjusted according to your needs.

Once everything is set, click **"Plot"** to begin the cutting process for automotive film.



If using different software, please refer to the specific cutting tutorial.
The YINK-T00X is identified as "YINK*G" in the software, so be sure to select the correct option.



IV

YK-T00X Operating Precautions

01

Align the film with the center guideline on the felt surface.
After activating the vacuum pump for suction, secure the film roll on the material holder with both ends even and ensure equal tension on both sides when rewinding the film.

02

Position the blade tip 15mm away from the material's edge, not exceeding 20mm. Set the coordinates to "**X=40-45mm**" and "**Y=80-100mm**". Press and hold the "**ENTER**" key for 3 seconds, then press the "**SET**" key to save the position.

03

Different materials require different pressure, speed, and blade settings. Refer to the data table for the specific settings. Keep in mind that film thickness and elasticity vary between brands.

Blade Length Guideline:

04

For partial cuts (half-cuts), the blade should leave a slight mark on the backing film. For full cuts, the blade should be just slightly longer than the material thickness. Avoid excessive blade length. It's recommended to peel off the top layer of the film before processing.

05

Do not set the cutting speed higher than "**400mm/s**". A faster speed may cause the blade rotation to fall behind, resulting in poor cutting quality and uneven or rough edges.

06

After arranging the Super nesting for paint protection film (PPF) cutting, always click "**Bottom**" first.

07

In the "**Sending**" interface, make sure to select "**Segmented Cutting**" with a segment value of "**1000mm**".

08

On the machine display, adjust the current pressure and speed values according to the reference data in the table. Ensure that the "**X**" and "**Y**" values are within the recommended range.

09

Machine Model Selection: Always choose **"YINK*G"**.

10

Before starting the cutting process, check the pressure gauge. The left-side gauge should read above **"0.6"** and the right-side gauge should be between **"0.2-0.3"**. Ensure the air pump and valves are turned on.

11

During cutting, use the **"Pause Button (Run/Stop)"** to temporarily stop the machine if needed.
(Press **"Run/Stop"** once to pause and press again to resume.)
Check the cutting quality, and if the film isn't fully cut, increase the pressure and continue.
For half-cuts, ensure the backing film has light cut marks or that the film can be easily peeled off, then press **"Run/Stop"** to continue.

12

After the first sheet is cut and the second sheet starts, closely monitor the cut alignment.
If there are alignment issues, immediately pause the machine and investigate the problem or contact technical support.

13

If wrinkles occur when changing material rolls, press the **"Pause (Run/Stop)"** button, locate the wrinkled area, hold the material in place, and carefully adjust the wrinkles step by step.
Once properly aligned, press the **"Confirm"** button to continue.

14

As cutting nears completion, monitor the remaining film.
Prepare to separate the film from the core before running out, and peel it off the core in advance.

15

After cutting, do not use a utility knife to cut the film directly from the roll. Instead, use scissors to separate the film, ensuring the felt mat remains undamaged.
