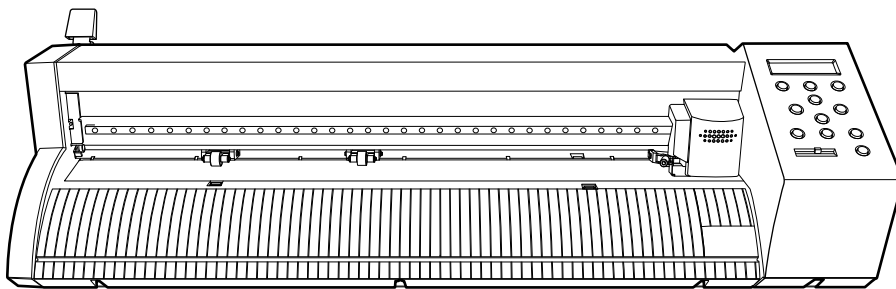


VersaSTUDIO ***GS2-24***

User's Manual



Thank you very much for purchasing this product.

- To ensure correct and safe usage with a full understanding of this product's performance, please be sure to read through this manual completely.
- Unauthorized copying or transferal, in whole or in part, of this manual is prohibited.
- The specifications of this product and the contents of this operation manual are subject to change without notice.
- The operation manual and the product have been prepared and tested as much as possible. If you find any misprints or errors, please inform us.
- Roland DG Corporation assumes no responsibility for any direct or indirect loss or damage that may occur through use of this product, regardless of any failure to perform on the part of this product.
- Roland DG Corporation assumes no responsibility for any direct or indirect loss or damage that may occur with respect to any article made using this product.

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Basic Handling Methods

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Getting Started

Important Notes on Handling and Use

- This machine is a precision device.
- Install the machine in a location having the specified temperature and relative humidity. For details, refer to [Specifications\(P. 163\)](#).
- Connect the AC adapter, USB, and Ethernet cables securely.
- When moving the machine, always support the bottom with your hands. If the machine is held elsewhere, it may be damaged when moved.

Usage Location/Usage Space

Install the machine in a level and stable location.

Never install the machine in any of the following locations. Doing so may result in a reduction in quality or malfunction.

- Locations subject to large fluctuations in temperature or humidity
- Locations subject to shaking or vibration
- Locations where the floor is tilted, not level, or unstable
- Dusty locations
- Locations exposed to direct sunlight
- Locations within 1 m of strong indoor lighting
- Locations near air-conditioning or heating equipment
- Locations exposed to water or moving air
- Locations exposed to considerable electrical or magnetic noise, or other forms of electromagnetic energy

Important

DGSHAPE Corporation assumes no liability for any loss of or damage to data resulting from computer malfunction or damage. (Always back up important data.)

Support

Support information made available via the DGSHAPE Corporation website is updated regularly to provide a useful reference in the event that problems occur. Before contacting us, please refer to the information on the website together with "[Troubleshooting Methods](#)."

IMPORTANT

Note that URLs contained in this manual are subject to change without notice.

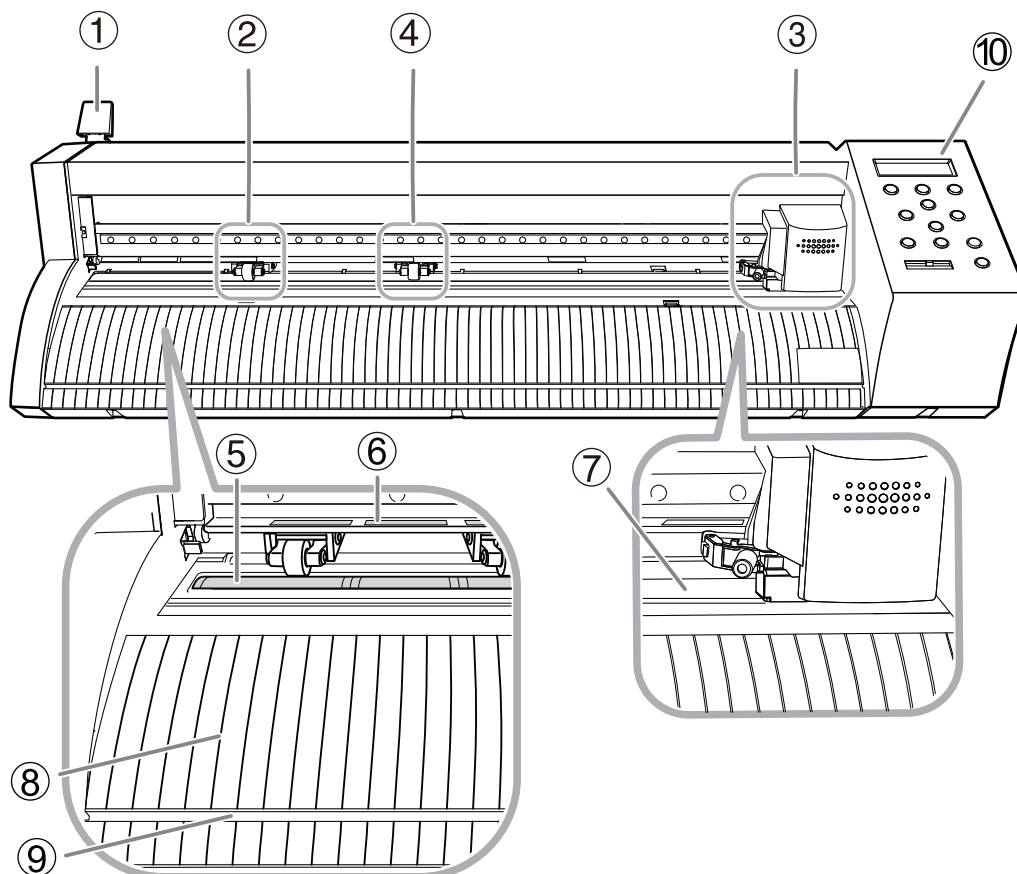
RELATED LINKS

- <https://www.rolanddg.com/>

Part Names and Functions

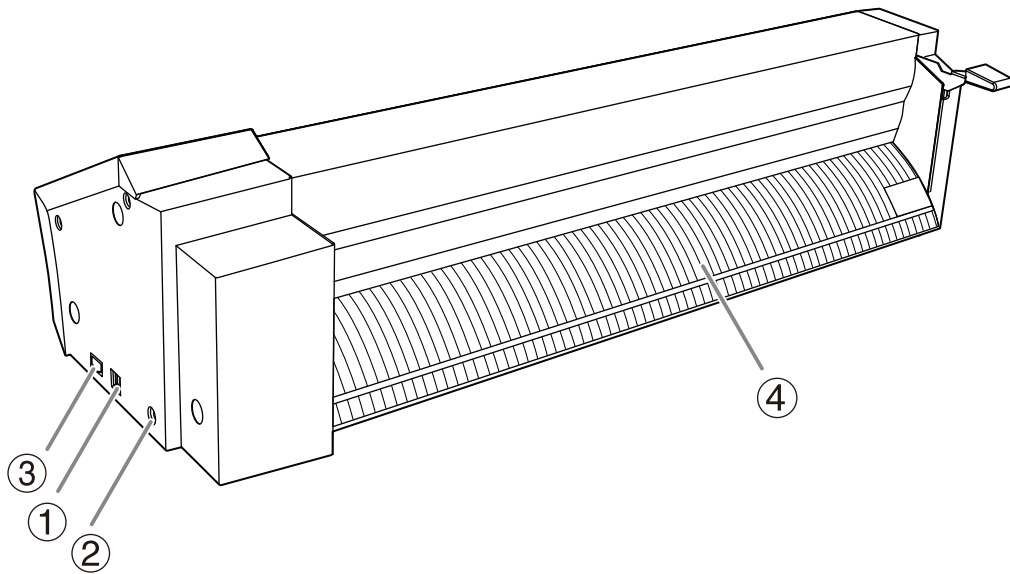
Cutting Machine Main Unit

Front



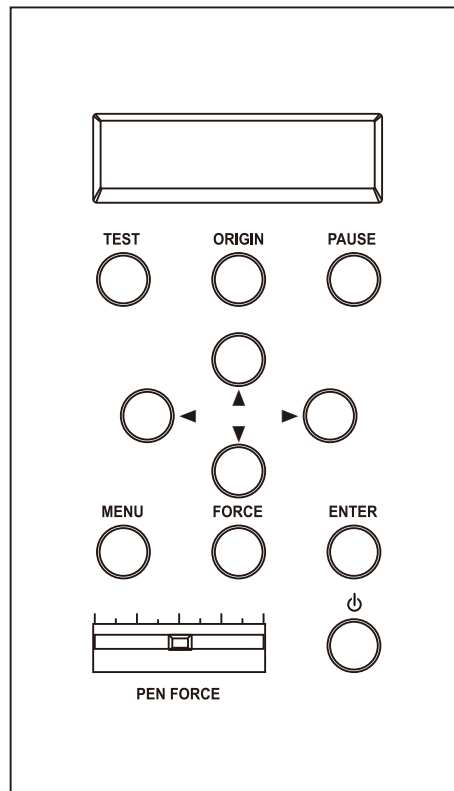
No.	Name	Functional overview
①	Loading lever	Use this when loading material.
②	Left pinch roller	Lift up the loading lever and then pinch the material with this. Set this at the left edge of the material.
③	Cutting carriage	Install the blade holder. This part moves to the left and right to cut the material.
④	Right pinch roller	Lift up the loading lever and then pinch the material with this. Set this at the right edge of the material.
⑤	Grit roller	This roller feeds out the material to the front or rear.
⑥	Grit pattern	These indicate the locations of the grit rollers. When loading the material, be sure to place the pinch rollers within the area indicated by each of these patterns.
⑦	Blade protector	This protects the tip of the blade during cutting.
⑧	Guide line	This is a guide for aligning the material when loading.
⑨	Knife guide	By inserting a blade, etc. and moving it along the guide, the material can be cut out without being unloaded.
⑩	Operation panel	You use this to perform various operations.

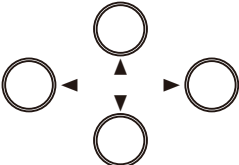
Back



No.	Name	Functional overview
①	USB connector	This is for connecting a USB cable.
②	Power cord connector	This is for supplying power to the machine.
③	Ethernet connector	This is for connecting an Ethernet cable.
④	Guide line	This is a guide for aligning the material when loading.

Operation Panel



Part	Name	Details	Notation used in this document
	Display	This displays various setting menus and other information.	—
	TEST Key	Hold this down for 1 second or longer to cut a pre-saved test pattern.	[TEST]
	ORIGIN key	Hold this for 1 second or longer to set the current blade position as the origin.	[ORIGIN]
	PAUSE key	This interrupts the operation. Press it again to restart the operation.	[PAUSE]
	Cursor keys	Use these keys to move the cutting carriage or the material, or to select or set menu items.	[▲] [▼] [◀] [▶]
	MENU key	The message on the display changes each time you press this key. • Cutting condition that is currently set • Menu mode • Width display, or material type display	[MENU]
	FORCE key	This displays the adjustment menu for the blade force.	[FORCE]

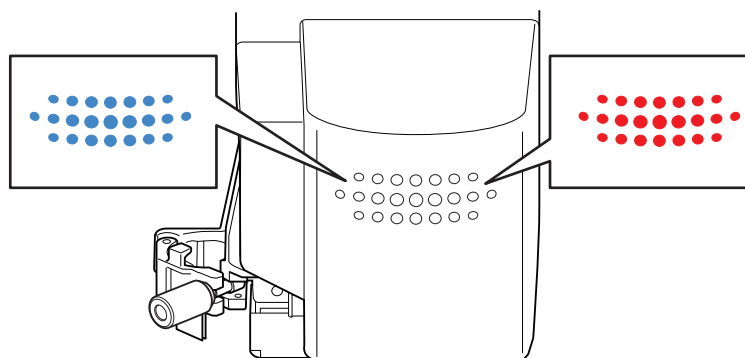
Part	Name	Details	Notation used in this document
ENTER 	ENTER key	This is used to select a menu item, and to finalize a setting.	[ENTER]
 PEN FORCE	PEN FORCE slider	Blade force can be fine-tuned. You can even perform this adjustment while cutting is in progress.	[PEN FORCE]
	POWER Button	Pressing this turns the power on, and this is lit in blue. Press this for 1 second or longer to turn off the power.	—

RELATED LINKS

- [P. 19 "CONDITION"](#)

Carriage LED Lamp

The machine statuses are indicated with LED lamp colors and their illumination patterns.



Machine state	LED state
Turning the Power Off	 Off
Turning the Power On	 Lit in blue
During unsetup (when the loading lever is lowered)	 Repeats illumination in bright blue and then dim blue
During setup (when the loading lever is raised)	 Lit in dim blue
During cutting	 Lit in blue
While paused	 Flashing in blue
When an abnormality occurs in the machine	 Flashing in red

RELATED LINKS

- [P. 153 Error Messages](#)

Starting Roland DG Connect Designer

Roland DG Connect Designer (hereinafter referred to as Designer) is a software package equipped with the functions required for efficient design production.

It also features functions that allow you to create graphics with intuitive operations and easily send cutting jobs to VersaWorks.

For full use of the cutting data creation functions, consider adding a Visual Communication module. For more information on the Visual Communication module, refer to [To Users of the Visual Communication Module](#).

Starting from Roland DG Connect Hub

Start Designer from Roland DG Connect Hub.

Procedure

1. Start [Roland DG Connect Hub].
 - Windows
Click the [Roland DG Connect Hub] icon in the notification area.
 - Mac
Click the [Roland DG Connect Hub] icon from the Dock.
2. In the main window, select the machine to use.
3. Click the Designer icon .
The sidebar is displayed on the right side of the window.
4. Click [Open].
Designer starts.

Starting from a Browser

Procedure

1. Access the following website.
<https://designer.rolanddg.com>
2. Log in.
3. Start Roland DG Connect Hub.
You have to start Roland DG Connect Hub before you can output data.

Material Used

Types of Materials

The two main types of materials used with this machine are shown below.

- Roll material
Media wound onto a paper tube
- Flat material
Media not wound onto a paper tube such as standard-size material

Various materials are selectable according to your purpose. For detailed information about each material, contact your material supplier.

MEMO

This manual may collectively refer to roll materials and flat materials as "media" or "material."

Conditions for Usable Materials

The conditions for materials that can be loaded in the machine are shown below.

Size	Width	50 to 700 mm (1.97 to 27.55 in.)
	Length ^{*1}	100 mm (3.94 in.) or more (flat material)
	Cuttable material thickness ^{*2}	0.3 mm (0.01 in.) or less (for loading, up to 1.0 mm (0.03 in.))
Weight	Max. weight of roll material	5 kg (11.02 lb.)

*1 There is no limit for roll material

*2 Includes the thickness of carrier paper (backing paper)

Materials That Cannot Be Used

On this machine, materials with any of the following characteristics cannot be used. Uncurl and straighten the shape of the material before loading.

- Strongly warped or bent
- Edges are not parallel

For Print & Cut, the following materials cannot be used in addition to the materials mentioned above.

- Transparent material
- Colored material

MEMO

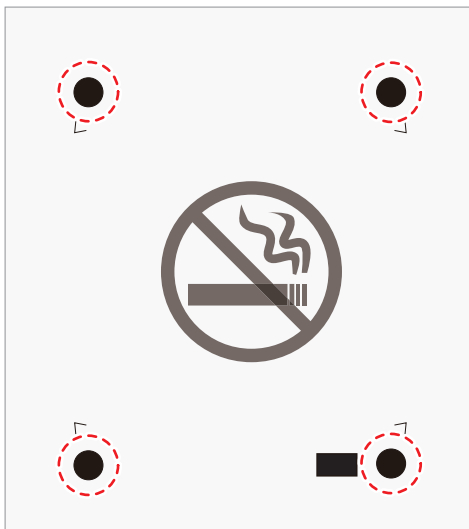
For printing and cutting, use white material with carrier paper that can be printed on using a laser or inkjet printer. Automatic detection of crop marks may not be possible for some materials, such as laminated or glossy materials.

- Types of materials that can be printed with laser printers
 - Fine paper
 - Coated paper
 - Art paper
 - PET
- Types of materials that can be printed with inkjet printers
 - Fine paper
 - Coated paper

Crop Marks

Crop Marks

Crop marks are used for alignment when cutting the material, which is printed from your printer, on this machine. Having the machine remember the positions of the crop marks, which are printed together with the image, makes it possible to correct cutting positions.



Readable crop marks

The sensor of the machine is only able to read crop marks like the circle shown below.

- Diameter: 10 mm (0.39 in.) to 12.5 mm (0.49 in.)
- Color: Black

MEMO

The machine may not be able to read printed crop marks correctly depending on the printer ink used.

RELATED LINKS

- [P. 161 Margins and the Distance between Crop Marks](#)

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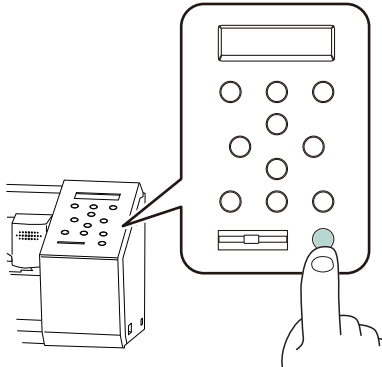
Power Supply Operations

Turning the Power On

Procedure

1. Press the power button.

The machine power is turned on, and the power lamp is lit.

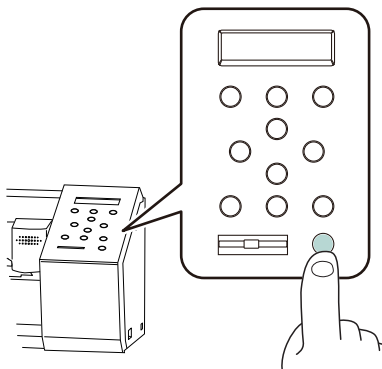


Turning the Power Off

Procedure

1. Hold down the power button for one second or longer.

The power is switched off.



2. Lower the loading lever and remove the material.

When not using the machine, keep the loading lever lowered even if the power is on.

RELATED LINKS

- [P. 133 The Power Cannot Be Switched Off](#)

Checking the Display Menu

Procedure

1. Press [MENU] several times to display the following screen.



MEMO

When the material is loaded, follow the following procedure to display the screen.

1. Press [MENU] several times to display the following screen.

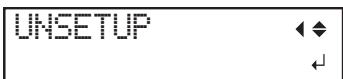
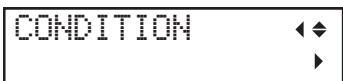


2. Press [▼].

2. Press [▲][▼] several times to display the menu you want to check.

The menus that can be displayed are shown below.

Click [▶] at each menu to check the detailed information or to change the setting.

	"UNSETUP" This appears when material is loaded. Pressing [ENTER] will unsetup the material.
	"CONDITION" Set the cutting conditions including blade force and cutting speed. The settings affect the cutting quality. Change the cutting conditions according to the material you are using. P. 19 "CONDITION"
	"SYSTEM INFO." Check the system information, including the firmware version, IP address, and subnet mask. P. 21 "SYSTEM INFO."
	"CROPMARK" Set the alignment method when cutting the material in which crop marks are printed. Normally use "SENSOR MODE".
	"OTHERS" You can set the display, or turn other settings on or off. P. 22 "OTHERS"
	"RELOT" Data received from the computer can be saved to the machine's memory, and that data can then be repeatedly used to cut (recut). P. 96 Cutting the Same Data Repetitively
	"MEMORY" To save the time spent on setting up cutting conditions for every material changeover, you can save the cutting conditions for frequently used materials onto the memory of the machine. P. 98 Saving Frequently-used Cutting Conditions

RELATED LINKS

- [P. 72 Optimizing Quality and Efficiency](#)

"CONDITION"

Here, cutting conditions including blade force and cutting speed are set and confirmed. The settings affect the cutting quality. Change the cutting conditions according to the material you are using.

- "FORCE"



The blade force can be set. If the design peels off or if the carrier paper is also cut together with the material, change the setting of "FORCE".

[P. 76 Setting the Blade Force](#)

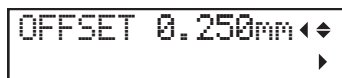
- "SPEED"



The cutting speed can be set. If the cutting line is distorted or if partial uncut areas remain, change the setting of "SPEED".

[P. 78 Setting the Cutting Speed](#)

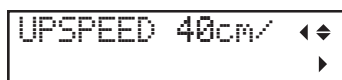
- "OFFSET"



The blade tip offset can be set. If the beginning of a cut deviates from the intended location or if the corners of a shape are not clean, change the setting of "OFFSET".

[P. 79 Setting the Blade Tip Offset Amount](#)

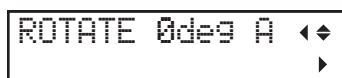
- "UPSPEED"



The speed for lifting the blade off the material and moving it to the next cutting position during cutting operation can be set. When cutting material that is thinner or thicker than the standard material, change the setting of "UPSPEED" to prevent problems such as material being lifted up.

[P. 84 Setting the Speed of the Blade During Cutting](#)

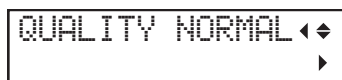
- "ROTATE"



Cutting coordinates can be rotated, and the cutting direction of the material can be set.

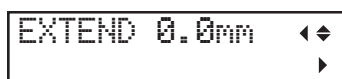
[P. 80 Set the Orientation of Cutting Coordinates](#)

- "QUALITY"



The cutting quality can be set. In cases such as using thick material, change the setting of "QUALITY".

- "EXTEND"



You can set whether to extend the cutting area compared to the normal setting or not. To maximize the use of material, change the setting of "EXTEND".

[P. 82 Extending the Cutting Area](#)

- "AREA"



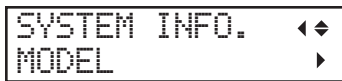
When using roll material, the length of the required material can be set. When setting up roll material, change the setting of "AREA".

[P. 37 Check Material Feeding](#)

"SYSTEM INFO."

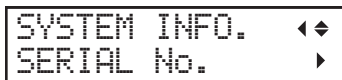
Check the system information, including the firmware version, IP address, and subnet mask.

- "MODEL"



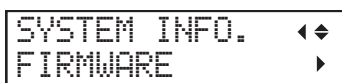
The model name can be checked.

- "SERIAL NO."



The serial number can be checked.

- "FIRMWARE"



The firmware version can be checked.

- "INTERFACE"



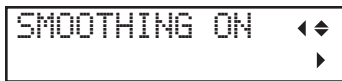
Connection setting with the computer can be checked.

To check network settings such as the IP address, press [▶] twice, use [▼] to select the information to display, and then press [▶].

"OTHERS"

You can set the display, or turn other settings on or off.

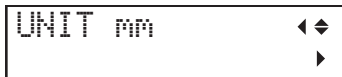
- "SMOOTHING"



You can set the curves in cutting data sent to this machine to be smooth.

[P. 85 Smoothly Cutting Arcs and Other Curves \(Smoothing\)](#)

- "UNIT"



You can set the unit for the display.

[P. 109 Changing the Unit of Length to Be Displayed](#)

- "FACTORYDEFAULT"



This procedure returns all settings to their factory default values. Any setting made to this point will be deleted. Keep a record of any necessary information such as cutting conditions.

[P. 112 Restoring Default Settings](#)

- "CONTRAST"



You can adjust the brightness of the display. Change the setting for the ease of looking at the display according to your environment.

[P. 111 Adjusting the Brightness of the Display](#)

- "VACUUMFAN"



Turn on the suction fan to hold the material in place during cutting so as to prevent the material from lifting up or moving out of place. When using materials that are thin and/or not firm, it is recommended to lower the air volume of the suction fan.

[P. 90 Using Thinner or Harder Material than Normal](#)

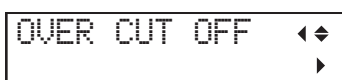
- "PRE-FEED"



Material is automatically fed before and during cutting in order to avoid misalignment of cutting positions. This setting is useful especially when cutting data that is 1 m (3.28 ft.) or larger.

[P. 91 Preventing Misaligned Cutting](#)

- "OVER CUT"



This function cuts extra at the start and the end of a cutting line. It is effective when you want to produce particularly sharp corners, for example when cutting thicker materials.

[P. 88 Cutting Corners Cleanly \(Over Cut\)](#)

- "OVERLAP"



Cutting is repeated several times at the same position with the same cut data. Use this setting for materials that cannot be cut through in a single pass, such as thick materials.

[P. 86 Cutting in the Same Position Repetitively \(Overlap\)](#)

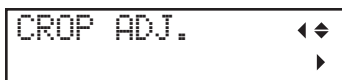
- "PERFORATE"



Perforated cutting can be used for cutting material without carrier paper or for making creases on the cut data. The cut area is separated after cutting to avoid material becoming jammed.

[P. 100 Separating the Cut Area Later](#)

- "CROP ADJ."



If the printing and cutting positions are not aligned, you can correct the issue by adjusting either the printing position or the cutting position.

[P. 93 Adjusting the Cutting Position](#)

Adjusting the Printing Position

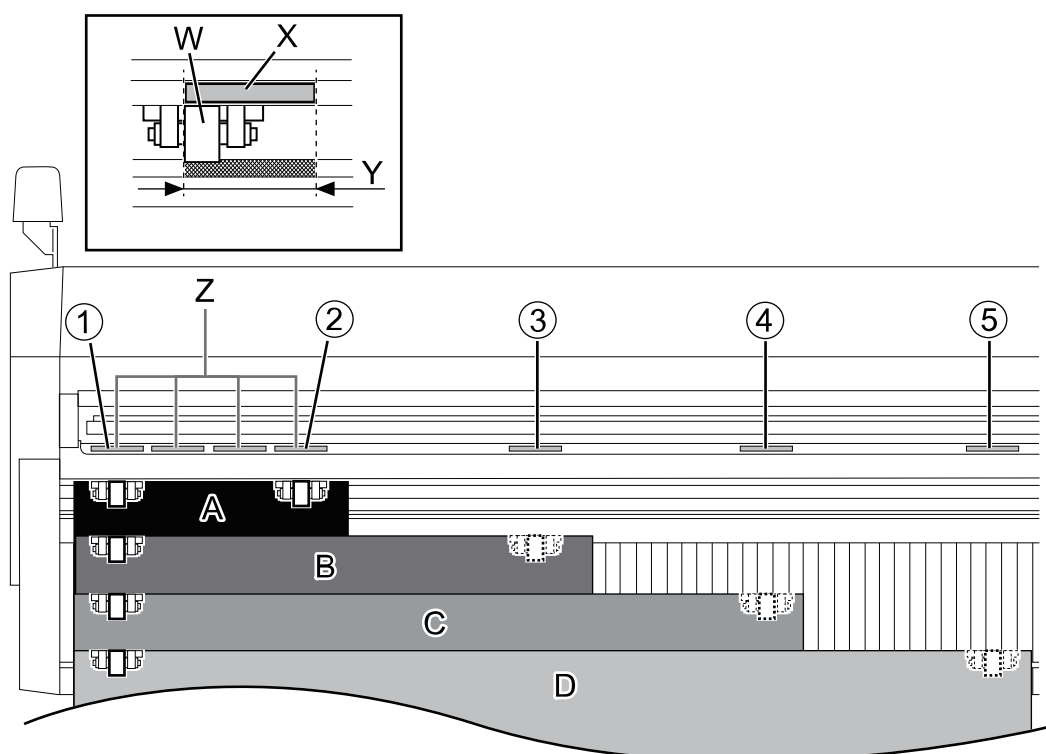
Setting Up Material

Loading Position of Material

Load the material so the left and right margins from the edges of the material to the pinch rollers are uniform. Load the material so the pinch roller (W) is within the range (Y) of the grit pattern (X).

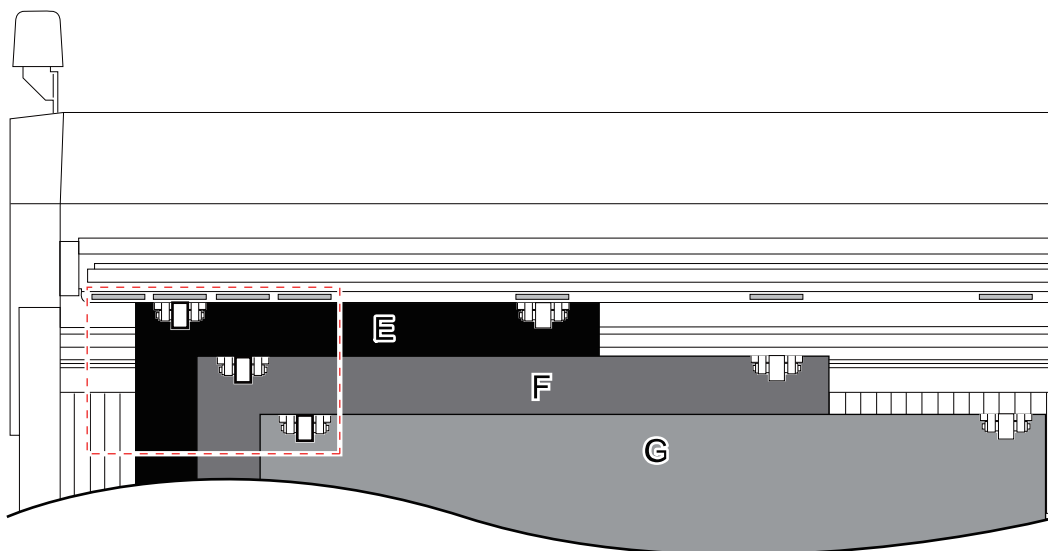
MEMO

Depending on the width of the material to load, the left and right margins may not be uniform, and the margin on the right edge of the material may be larger than the margin on the left edge.



Z	Usage position of left pinch roller
①	Usage range of the left pinch roller When loading material for which the width is other than A to D, move the left pinch roller.
②	Right pinch roller usage range with A material loaded
③	Right pinch roller usage range with B material loaded
④	Right pinch roller usage range with C material loaded
⑤	Right pinch roller usage range with D material loaded
A	Material with a width of approximately 150 mm (5.91 in.)
B	Material with a width of approximately 306 mm (12.05 in.)
C	Material with a width of approximately 457 mm (17.99 in.)
D	Material with a width of approximately 610 mm (24.02 in.)

When loading material other than those described above, change the position of the left pinch roller to match the width of the material.



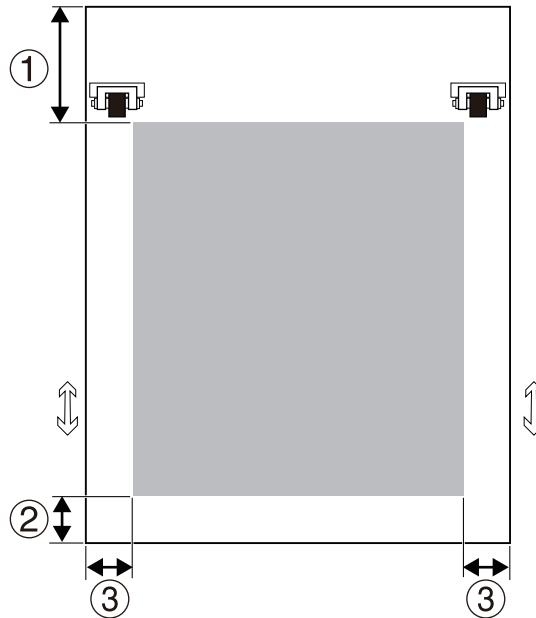
RELATED LINKS

- [P. 8 Front](#)

Setting Up Flat Material

If flat material is used, it must be at least 70 mm (2.76 in.) longer than the vertical size of the cut data. This is the length required for the grit roller to feed out the material to the front or rear.

Refer to the figure below and ensure that there are sufficient margins at the front and rear, the right and left of the material.



①	50 mm (1.97 in.) or more
②	15 mm (0.60 in.) or more
③	25 mm (0.99 in.) or more

IMPORTANT

Materials with any of the following characteristics cannot be used: Uncurl and straighten the shape of the material before loading.

- The material is curled upward.
- The leading edge of the material is bent or creased.

1. Loading Flat Material

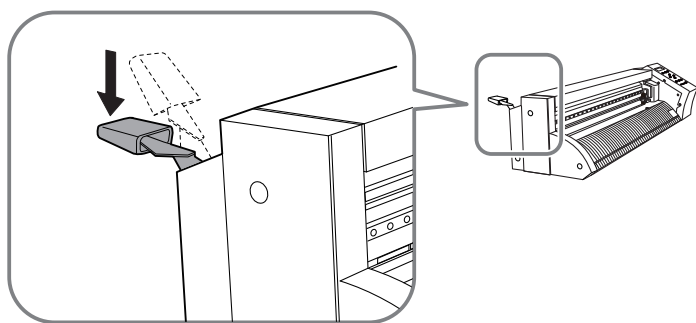
These instructions describe how to set A4 material.

Procedure

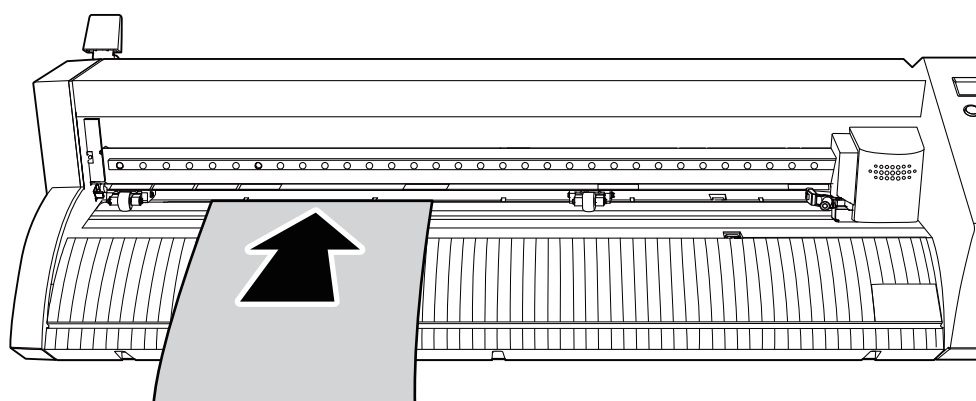
1. Lower the loading lever.

IMPORTANT

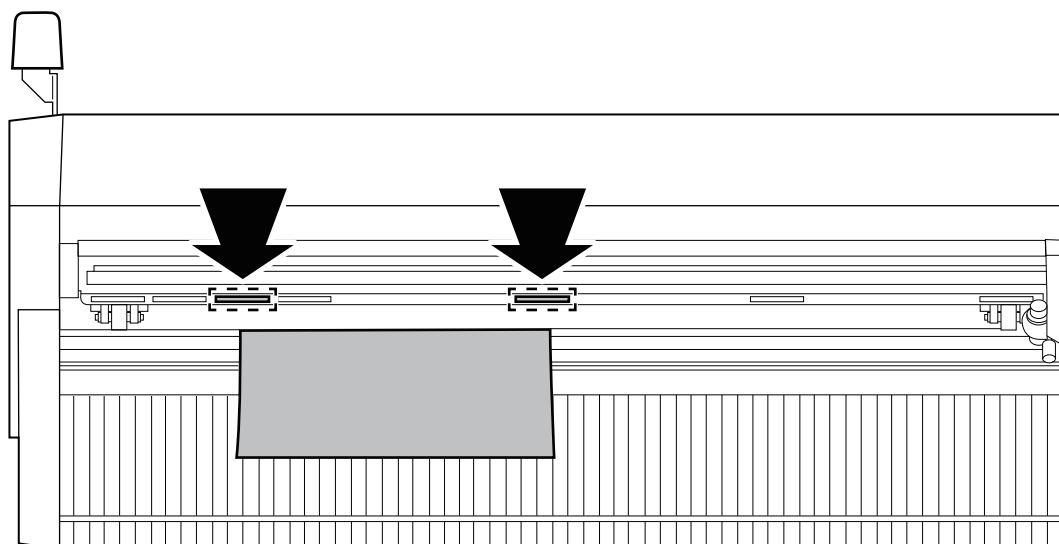
Do not use excessive force when moving the loading lever. Doing so may damage it.



2. Insert the material from the front of the machine.



3. Set the material in the position shown in the figure below.
The setting position differs according to the size of the material to be loaded.

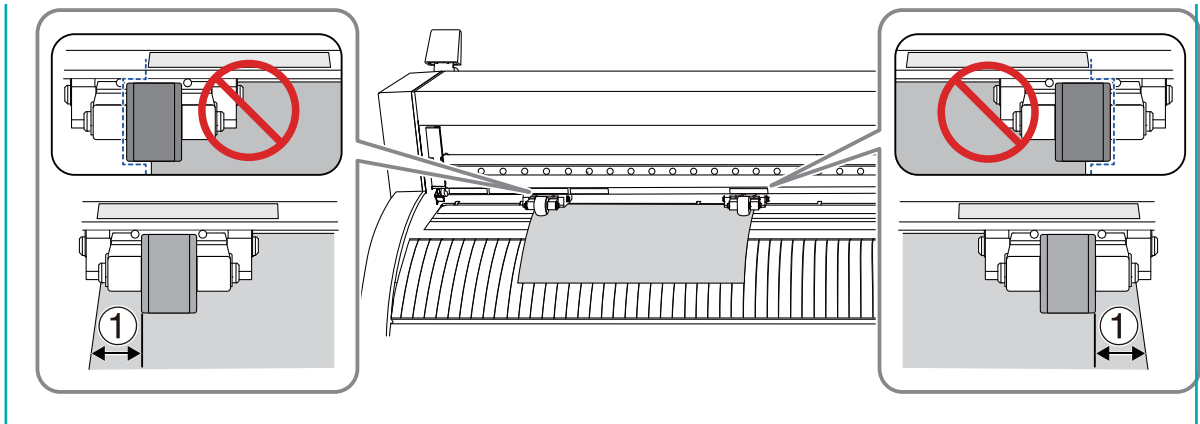


4. Move the pinch rollers to the edges of the material so that each one is within the grit patterns.

Set the material so the left and right margins (①) from the edges of the material to the pinch rollers are uniform.

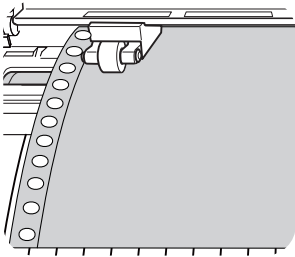
MEMO

When using material with a large amount of feed (long material), set the left and right margins to approximately 25 mm (0.98 in.).



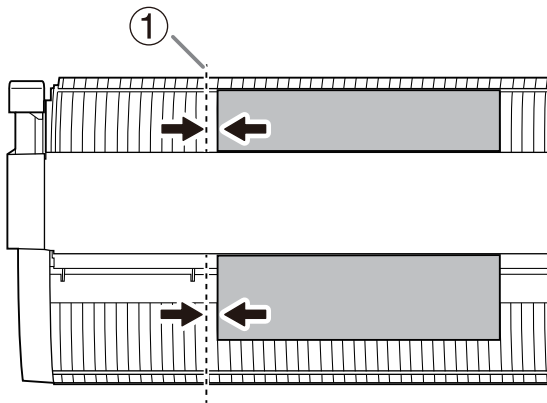
MEMO

Sprocket-fed perforated material has perforations along each edge for material feeding. If the pinch rollers are positioned over the perforations, the material cannot be fed correctly. When using this material with the machine, place the pinch rollers away from the perforations.

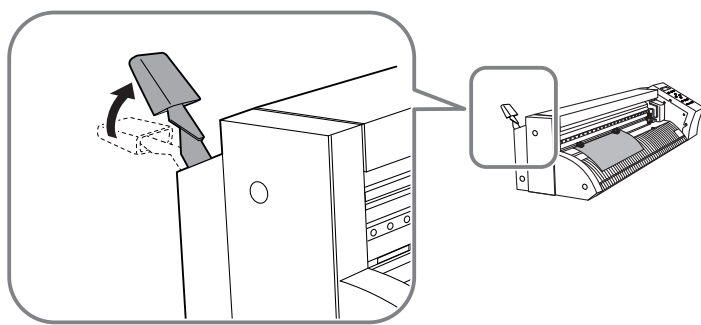


5. Align the left edge of the material so that it lies approximately parallel to the guide line (①).

View from above the Machine



6. Raise the loading lever.
The material is secured in place.

**MEMO**

Use the following link to view a reference video for this procedure.

[Loading Flat Material](#)

**RELATED LINKS**

- [P. 14 Conditions for Usable Materials](#)
- [P. 24 Loading Position of Material](#)
- [P. 160 Cutting area](#)

2. Check the Loaded Material

Procedure

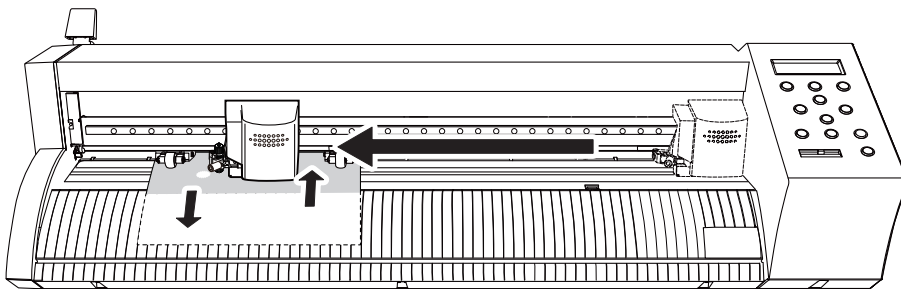
1. Turn on the machine.
2. Press [▼] several times to select the "PIECE".

```

SELECT SHEET  ▲
*PIECE        ▼
    
```

3. Press [ENTER].

The cutting carriage moves to the left pinch roller position, and the material moves forward and backward.



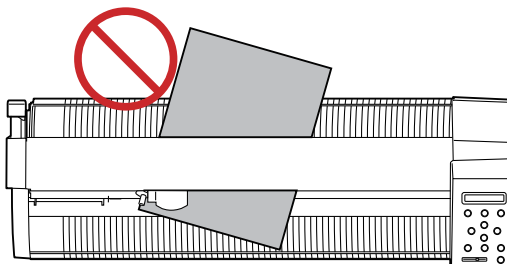
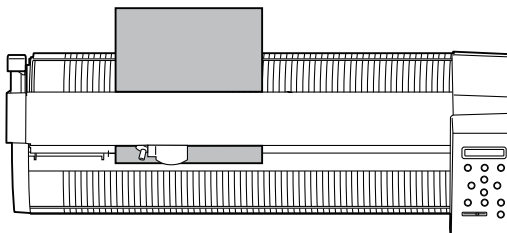
When initialization ends, the cuttable width and length are displayed on the display.

```

W: *****
L: *****
    
```

4. After operation stops, check the following items.
 - Left edge of the material is not inclined towards the guide line
 - Pinch rollers are not off the material

View from above the Machine



MEMO

When the material is inclined or when pinch rollers are off the material, the material cannot be set up correctly. Perform the following procedure, and restart material setup from the beginning.

- a. Unsetup the material, and return the cutting carriage to the stand-by position.

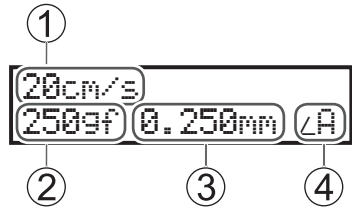
[P. 68 Removing the Material](#)

- b. Press the power button for 1 second or longer to turn off the power.

5. Press [MENU].

Make sure the values for the items are displayed.

The value of the following figure is a reference example.



①	Cutting Speed
②	Cutting force
③	Blade tip offset
④	Orientation of cutting coordinates

IMPORTANT

If flat material longer than 1.6 m (5.25 ft.) is loaded, the machine recognizes it as a roll.
If this is the case, feed the material forward and confirm that material can be fed normally.
If you start cutting without confirming the material feeding, the material may slip during cutting, or the cut quality may be degraded with improper feeding.

[P. 37 Check Material Feeding](#)

RELATED LINKS

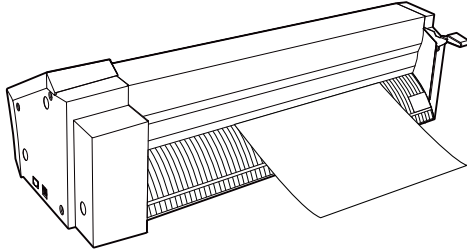
- [P. 76 Setting the Blade Force](#)
- [P. 79 Setting the Blade Tip Offset Amount](#)
- [P. 80 Set the Orientation of Cutting Coordinates](#)
- [P. 78 Setting the Cutting Speed](#)

Setting Up Roll Material

MEMO

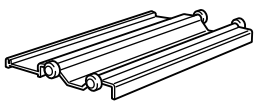
When not using the roller base, cut off the amount needed for the cutting from the roll beforehand, and load it as flat material.

[P. 26 Setting Up Flat Material](#)



1. Loading Roll Material

Load the roll material to the machine by using the roller base.

Required item

Roller base

⚠ CAUTION

Load the roll media correctly.

Otherwise the media may fall and cause injury.

⚠ CAUTION

The roll media is approximately 5 kg (11.02 lb.).

To avoid injury, handle the roll media with care.

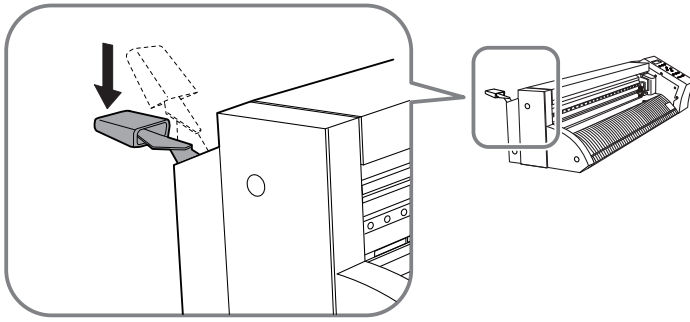
⚠ CAUTION

Never load media that weighs over 5 kg (11.02 lb.).

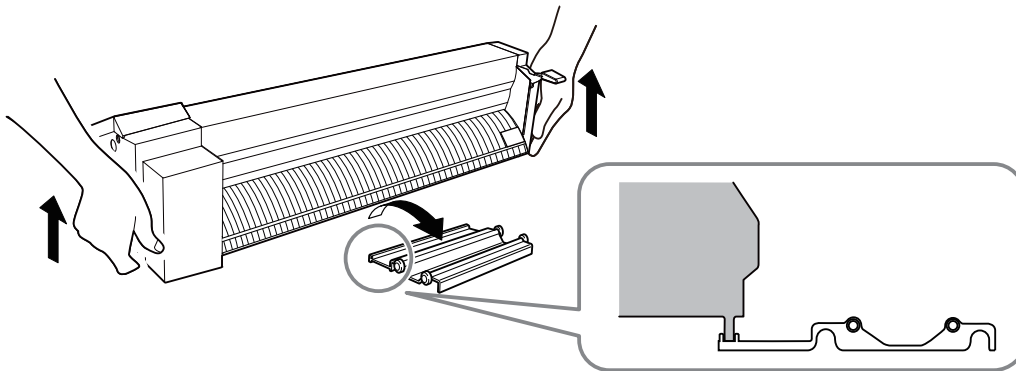
The machine may fail to withstand the weight and tip over or cause the media to fall.

Procedure

1. Check that the loading lever is lowered.



2. Attach the roller base onto the machine.
Hold the end of the machine when lifting.

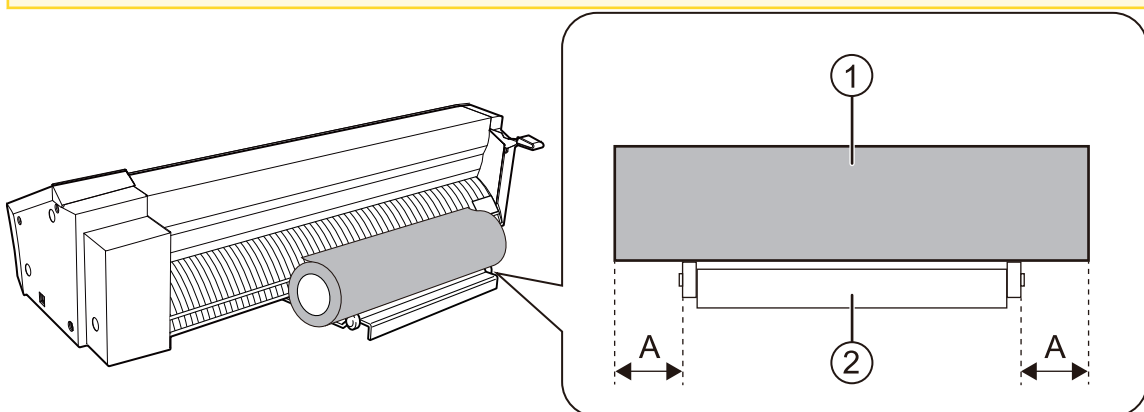


3. Place roll material on the roller base.

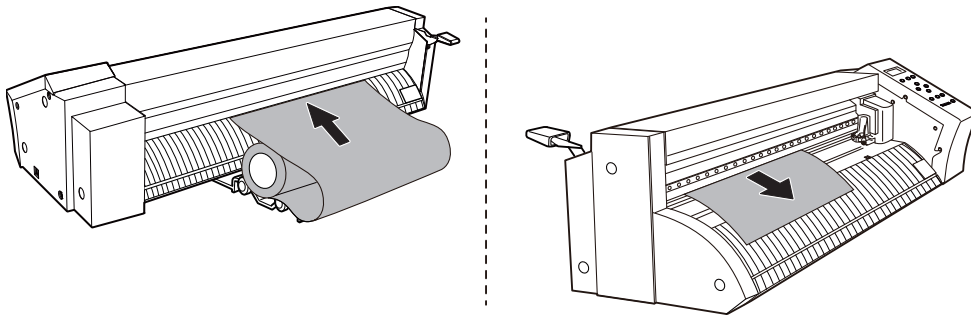
Load the roll material (①) so that the portions (A) extending beyond the left and right edges of the roller base (②) are uniform.

⚠ CAUTION

Load the roll media correctly.
Otherwise the media may fall and cause injury.

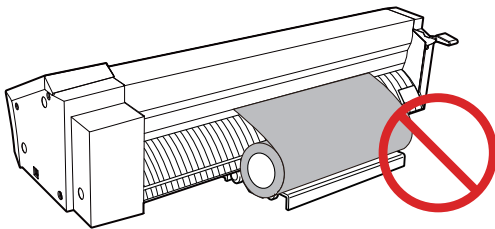


4. From the roll, pull out the material a little longer than the amount to be used, and insert it from the back to the front of the machine.



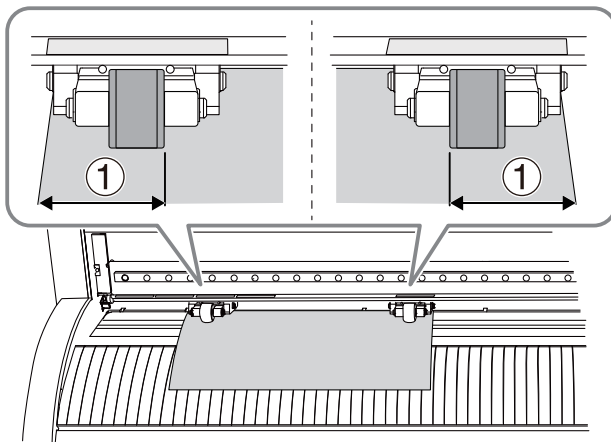
IMPORTANT

Leave some slack in the pulled out material. If you load the material without creating some slack, the material cannot be fed correctly.



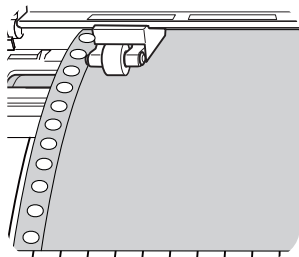
5. Move the pinch rollers to the edges of the material and within the grit patterns.

Position the pinch rollers so that each one is 25 mm (0.99 in.) or more (①) inward from the respective left or right edge of the material.



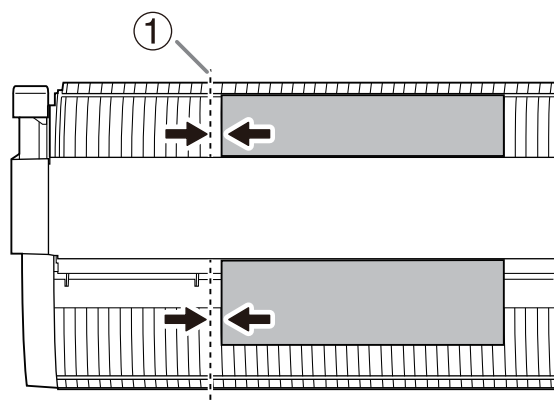
MEMO

Sprocket-fed perforated material has perforations along each edge for material feeding. If the pinch rollers are positioned over the perforations, the material cannot be fed correctly. When using this material with the machine, place the pinch rollers away from the perforations.



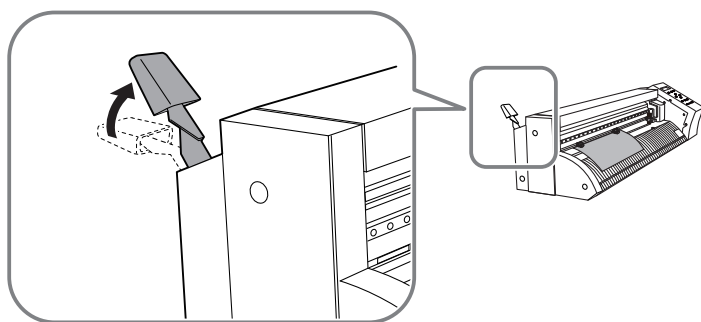
6. Align the left edge of the material so that it lies approximately parallel to the guide line (①).

View from above the Machine



7. Raise the loading lever.

The material is secured in place.



MEMO

Use the following link to view a reference video for this procedure.

[Loading Roll Material](#)



RELATED LINKS

- [P. 14 Conditions for Usable Materials](#)
- [P. 24 Loading Position of Material](#)

2. Select the Material Type

Select the type of material to be loaded to the machine.

Procedure

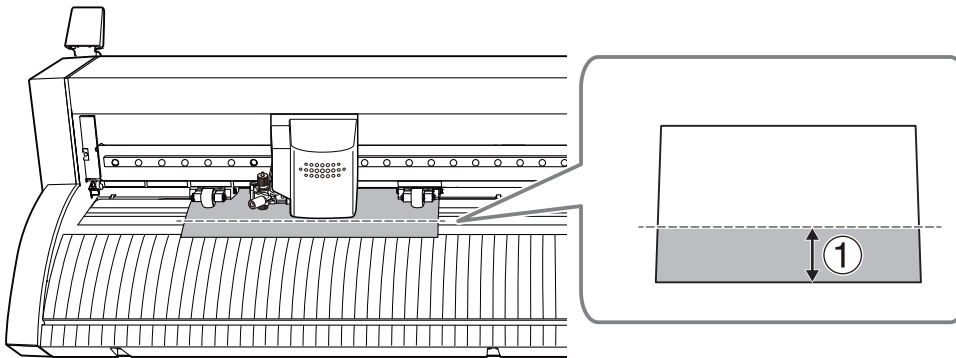
1. Turn on the machine.

The screen shown in the following figure is displayed.



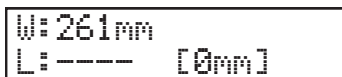
2. Press [▲] or [▼] to select "ROLL" or "EDGE".

If "EDGE" is selected and set, approximately 15 mm (0.59 in.) (①) from the top edge of the material is reserved for the margin. If "ROLL" is selected and set, no margin is reserved.



3. Press [ENTER].

The cutting carriage moves to the left edge. The cuttable width then appears on the display.



RELATED LINKS

- [P. 32 Loading Roll Material](#)

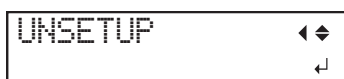
3. Check Material Feeding

Before cutting, feed the material forward and confirm that material can be fed normally.

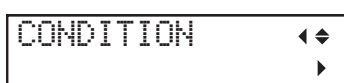
If you start cutting without confirming the material feeding, the material may slip during cutting, or the cut quality may be degraded with improper feeding.

Procedure

1. Press [MENU] several times to display the following screen.



2. Press [▼] to display the following screen.



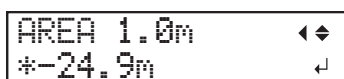
3. Press [▶], then [▲] to display the screen shown below.
The screen shown in the figure below is displayed.



4. Press [▶].

5. Press [▲][▼] to set the material length required for the cut data.

For the grit roller to feed material forward, margins have to be left at the start and end of the cutting area. It is a good idea to set a value that is about 0.2 m (7.87 in.) longer than the required material length.



6. Press [ENTER].

The set length of the material moves out to the front, then is immediately pulled back and taken up again.

If the material slips away from the pinch rollers, press [PAUSE] to stop operation.

Lower the loading lever, take out the material, and perform the setup again from the beginning.

7. Press [MENU] to return to the original screen.

RELATED LINKS

- [P. 14 Material Used](#)
- [P. 26 Loading Flat Material](#)
- [P. 32 Loading Roll Material](#)

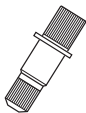
Preparations for Cutting Output

Step 1: Prepare the Blade

⚠ CAUTION

Never touch the tip of the knife.

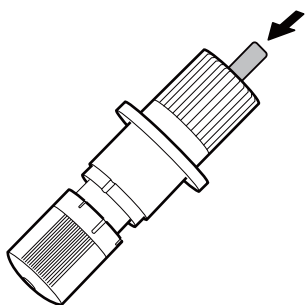
Doing so may result in injury. The cutting performance of the blade will also be impaired.

Required items (included items)		
		
Blade Holder	Blade	Pin *1

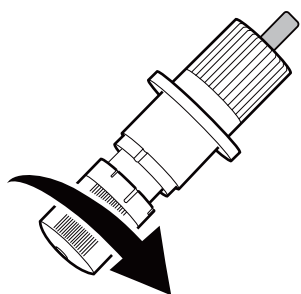
*1 The pin is inserted into the holder.

Procedure

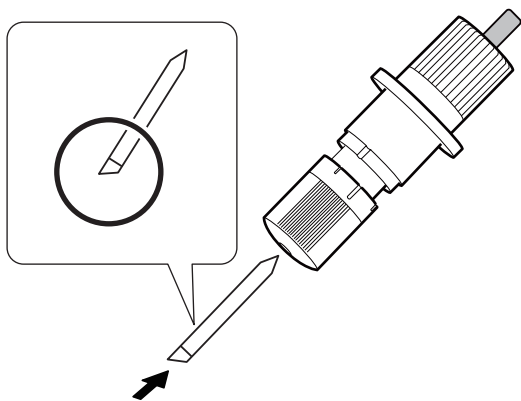
1. If the pin has been removed from the blade holder, insert the pin into the blade holder.



2. Turn the blade holder cap clockwise, and tighten it until it stops rotating.



3. Insert the blade.

**IMPORTANT**

Cutting conditions, such as the cutting-in amount, cutting speed, blade force, etc., must be adjusted to match the material type.

Make sure to carry out cutting tests with the material to be used, and adjust the cutting conditions.

RELATED LINKS

- [P. 74 General Guide Regarding Cutting Conditions](#)
- [P. 75 Adjusting the Cut Setting](#)

Step 2: Install the Blade Holder

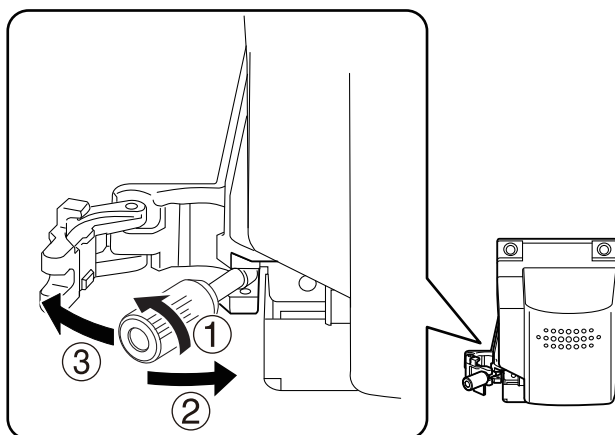
⚠ CAUTION

Never touch the tip of the knife.

Doing so may result in injury. The cutting performance of the blade will also be impaired.

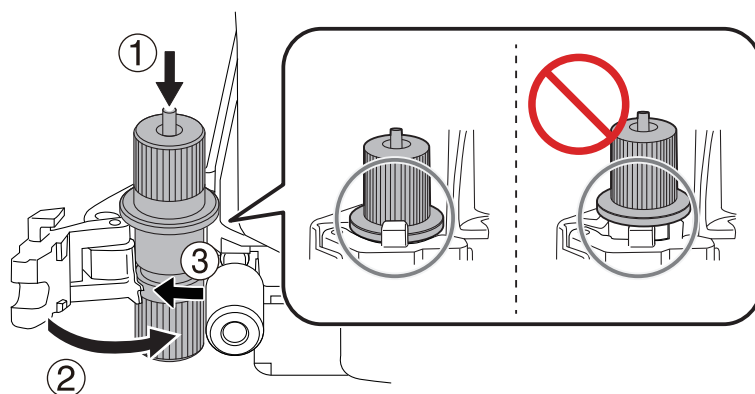
Procedure

1. Loosen the cutting carriage screw.

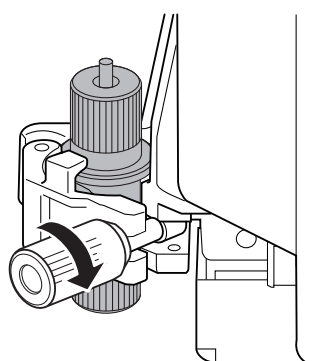


2. Insert the blade holder.

Confirm that the blade holder and the cutting carriage are engaged.



3. Fully tighten the cutting carriage screw.



MEMO

Use the following link to view a reference video for this procedure.

[Preparing the Blade](#)

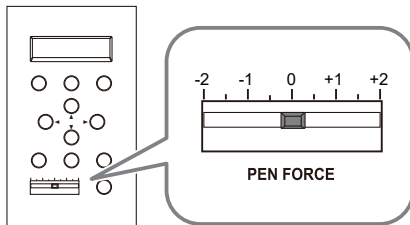


Step 3: Perform Test Cutting

Adjust the cutting conditions according to the types of material and the cleanness of the cut. To obtain high-quality cutting results, carry out a cutting test to check the cutting quality for the material before you perform the actual cutting.

Procedure

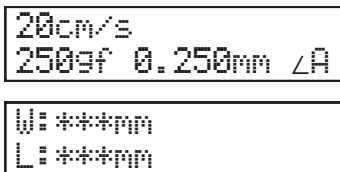
1. Check that the PEN FORCE slider is at the center position (at "0" on the scale).



2. Press [▲][▼][◀][▶] to move the cutting carriage.
Move the cutting carriage so that the blade tip points the start position of the cutting.

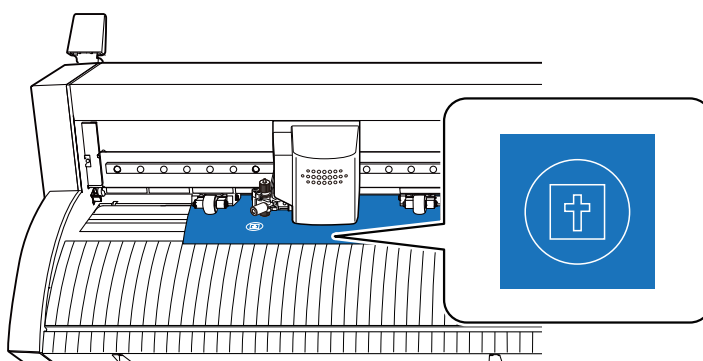
MEMO

To move the material or the cutting carriage fast, press [ENTER] together with one of [▲][▼][◀][▶] while one of the following screens is shown.

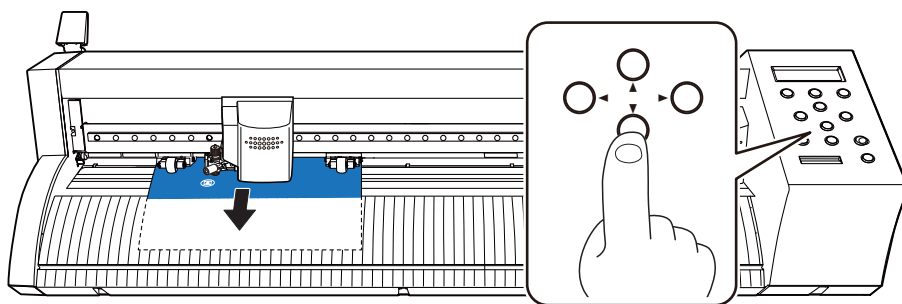


3. Hold down [TEST] for one second or longer.

Cutting of the test pattern will start at the blade position where [TEST] is pressed.



4. Once the cutting is completed, press [▼] to feed the material forward.



5. Peel off the cut shape using a pair of tweezers, etc. to verify the cutting quality.

The following conditions are signs of good quality.

- When the circle part is peeled, only the circle part comes off
- When the square part is peeled, a faint blade trace is left on the carrier paper



If any of the following conditions is present, set the blade force or the cutting speed. After the setting, perform a cutting test again. Repeat this process until good quality is obtained.

Check item	Result	Setting item	Adjustment
Check the shape.	The cut shape is distorted.	Cutting Speed	Reduce
Peel off the circle.	Other shapes come off together	Cutting force	Increase
	Carrier paper is also cut		Reduce
	Some uncut areas remain.	Cutting Speed	Reduce
Peel off the square.	Blade trace cannot be seen	Cutting force	Increase
	Blade trace is too deep		Reduce

IMPORTANT

When using hard material or thin carrier paper, changing the blade force may not lead to good quality. Adjust the amount of blade tip extension, and accurately adjust the cutting-in amount.

MEMO

Use the following link to view a reference video for this procedure.

[Cutting Test](#)



RELATED LINKS

- [P. 74 General Guide Regarding Cutting Conditions](#)
- [P. 76 Setting the Blade Force](#)
- [P. 78 Setting the Cutting Speed](#)

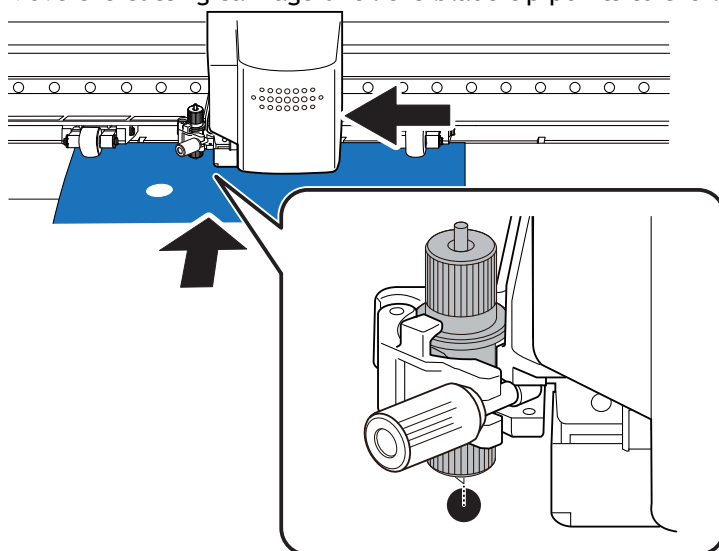
- [P. 75 Adjusting the Cutting-in Amount](#)

Step 4: Setting the Output-start Location

Before cutting, set the output-start location to a location where adequate cutting area can be secured. Output the actual cutting to an area that does not overlap with the area used for cutting tests.

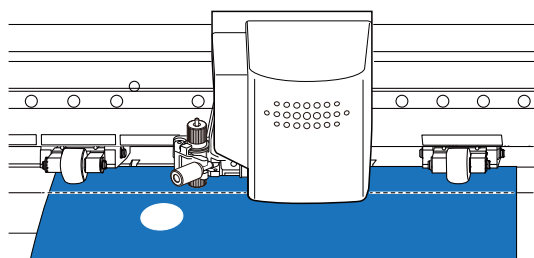
Procedure

1. Press [$\blacktriangleleft$][$\blacktriangleup$] to move the cutting carriage to the location you want to set as the origin.
Move the cutting carriage until the blade tip points to the location you want to set as the origin.



2. Press [$\blacktriangleup$] to move the material backward, and ensure that the cutting test traces are in front of the blade protector.

The blade moves over the blade protector. When the origin is set, the area behind the blade protector is set as the cutting area.



3. Hold down [ORIGIN] for one second or longer.
The display flashes, and the location of the blade tip is set as the origin.

Output Method

Creating Cutting Data in Designer

- Cutting Method48
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- Printing and Cutting Method53
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 - Step 2: Setting Crop Marks.....56
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 - Step 4: Configure the Setting to Perform Automatic Aligning.....62
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 - Step 6: Performing Cutting64

Cutting Method

Step 1: Creating Cutting Data

Enter text and shapes, and create cut data. This section explains how to create cut data containing "SALE," and to add a "weed line," which facilitates peeling afterwards.

Procedure

1. Start Designer.

[P. 13 Starting Roland DG Connect Designer](#)

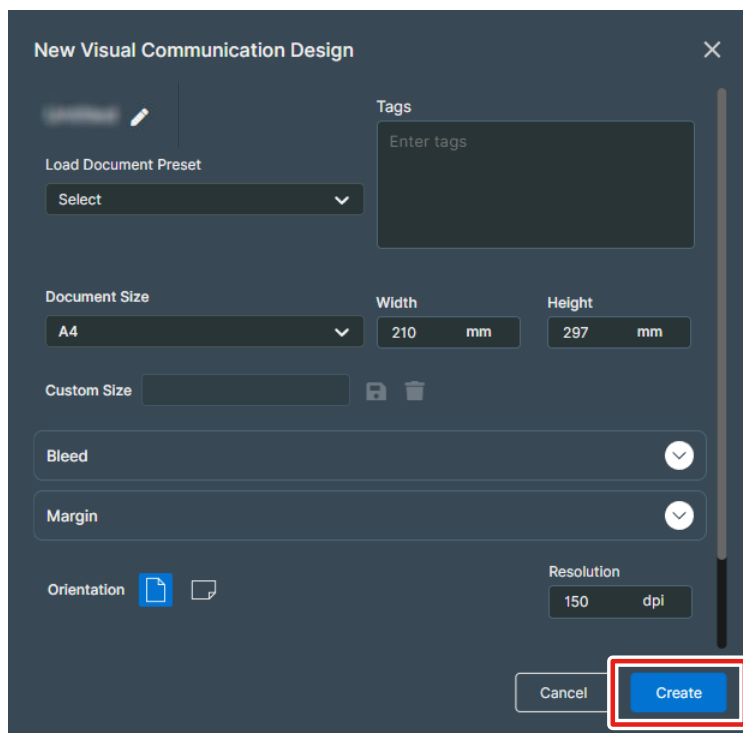
2. From the dashboard, click [New Design].

3. Click [Visual Communication Design].

4. Specify the design setting, and then click [Create].

Create a new design by changing the design name, setting the size, and configuring initial settings such as vertical or horizontal orientation.

You can also change the settings later.



5. On the design toolbar, click **T** [Text].

6. Click [Add Text].

7. Enter "SALE."

8. Select the entered text and change items such as the font, font style, and font size.

9. On the function toolbar, click **X** [Contour].

The operation panel is displayed on the right side of the window.

10. Click [Cut Contour].

The contour of the text becomes a cutting line.

11. Add a weeding line.

- **[Weed Border]**

Adds a weeding line that is a rectangle around the object. Use **[Offset]** to specify the weeding line frame from the object.

- **[Horizontal]**

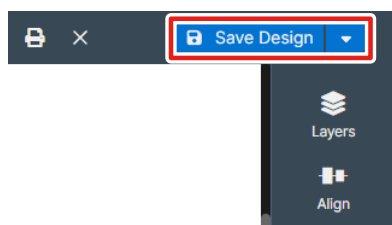
Adds a horizontal weeding line inside the frame when **[Weed Border]** is on. Specify the **[Segment]** or **[Space]**.

- **[Vertical]**

Adds a vertical weeding line inside the frame when **[Weed Border]** is on. Specify the **[Segment]** or **[Space]**.

12. Click [Save Design] in the upper-right corner of the window.

The input window for the file attributes to be saved is displayed.

**13. If necessary, enter the file attributes.**

To change the file name, use **[Title]**.

MEMO

It is a good idea to enter keywords that you can use to identify the design you have created in **[Tags]**. This will help you manage the design more efficiently. These will function as search keywords for when you are searching for designs from the dashboard.

14. Click [OK] to save.

Design files are stored in a storage area (cloud storage) assigned to the individual Roland DG Connect account. You can re-open and load the saved design files from **[Open Recent]** on the dashboard.

Step 2: Setting the Cutting Conditions

Procedure

1. If Roland DG Connect Hub and VersaWorks are not running, start them.

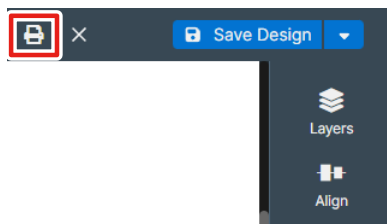
2. Check that the material has been properly loaded and set up.

[P. 24 Setting Up Material](#)

3. Click  [Print] in the upper-right corner of the window.

The [Send To VersaWorks] window appears.

If editing of the design is in progress, perform the operation after saving the design file.



4. On the [Settings] tab, set the following items.

- [Local User]
- [Printer Name]

When you enter values in these two locations, the other items are automatically set. Change them as necessary.

5. Set [Action incoming jobs] under [Job Management].

- [Do Nothing]

The job is sent to queue A of the model set in VersaWorks.

- [RIP]

The job is sent to queue A of the model set in VersaWorks and is processed by the RIP according to the settings of queue A.

- [RIP and Print]

The job is sent to queue A of the model set in VersaWorks and is processed by the RIP and is printed according to the settings of queue A.

6. On the [Controls] tab, set the following items.

- [Cut Controls]

[Operation Mode]: [cut only] is selected. You cannot change this setting.

- [Cut all paths]

Off

- [Cut image boundaries]

Off

- [Return to origin after print]

Off

- [Number of Cuts]

1, however, if it is difficult to cut the media, set a larger number to cut multiple times.

- [Execute PREFEED Operation]

Off

- [Cutting conditions]

The values of [Cutting speed], [Cutting force], and [Blade offset] vary depending on the media. For more information on the settings, refer to [Cutting Conditions\(P. 74\)](#).

- [Perforated cut conditions]

The values of [PerfCut image boundaries], [Perforated length], [Perforated force], [Half cut length], and [Half cut force] vary depending on the media. For more information on the settings, refer to [Separating the Cut Area Later\(P. 100\)](#).

Step 3: Performing Cutting

Send the cut data to the machine, and cut the material.

WARNING

Never touch the cutting carriage while output is in progress.

The cutting carriage moves at high speed. Coming into contact with the moving carriage may cause injury.

IMPORTANT

If the material comes off or the machine operates abnormally, press [PAUSE] to cancel the output.

Lower the loading lever, take out the material, and perform the setup again from the beginning.

Procedure

1. Click [Send To VersaWorks].

- When [RIP and Print] is selected

The job is added to VersaWorks queue A with the specified cutting settings, and cutting output is performed.

- When [Do Nothing] or [RIP] is selected

The job is added to VersaWorks queue A with the specified cutting settings. Proceed to Step 2.

VersaWorks operation

2. Check the job settings.

Double-click the added job to change items such as the number of copies to print, the scaling, and the printing position. For details, refer to the [VersaWorks Master Guide](#).

3. Output the printing data.

RELATED LINKS

- [P. 71 Pausing and Canceling Output](#)
- [P. 24 Setting Up Material](#)

Printing and Cutting Method

The flow of printing and cutting using the machine is as follows.

1. Create Print & Cut data using Designer.
2. Print with crop marks.
3. Load the printed material in the machine.
4. Send cutting data.

When printing on a printer that cannot print directly from Designer, download the Print & Cut data in PDF format and print it.

Step 1: Create Print & Cut Data

1. Place the Print Data

Procedure

1. Start Designer.
[P. 13 Starting Roland DG Connect Designer](#)

2. From the dashboard, click [New Design].

3. Click [Visual Communication Design].

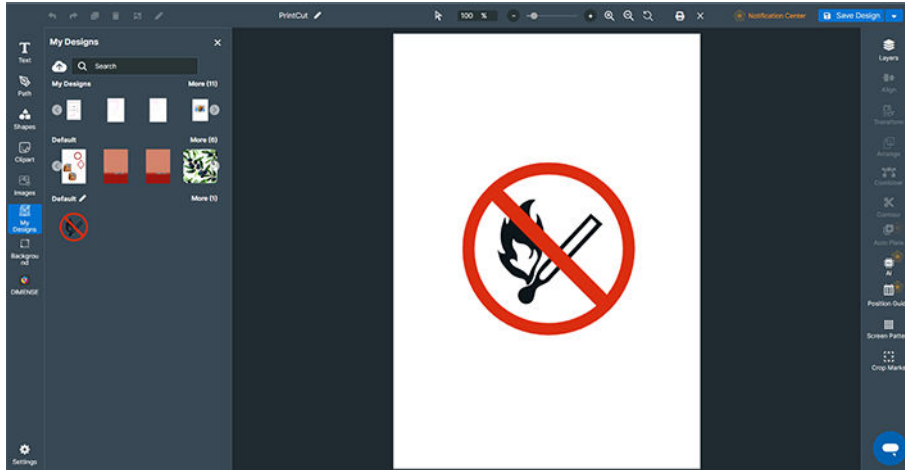
4. Specify the design setting, and then click [Create].

Create a new design by changing the design name, setting the size, and configuring initial settings such as vertical or horizontal orientation.

You can also change the settings later from the design window.

The screenshot shows the 'New Visual Communication Design' dialog box. It includes a 'Tags' field at the top right. Below it is a 'Load Document Preset' section with a 'Select' dropdown. The 'Document Size' section shows 'A4' selected, with 'Width' set to '210 mm' and 'Height' set to '297 mm'. There is a 'Custom Size' section with a text input field and icons for saving and deleting. Below that are 'Bleed' and 'Margin' sections, each with a dropdown arrow. The 'Orientation' section shows two icons: a vertical one (selected) and a horizontal one. The 'Resolution' section shows '150 dpi'. At the bottom, there are 'Cancel' and 'Create' buttons. The 'Create' button is highlighted with a red rectangle.

5. On the design toolbar, click  [My Designs].
6. Click  [Upload File] and upload a file from your computer.
7. Click the image uploaded.
The specified image appears on the canvas.
8. Adjust the position and size of the image.



2. Add Cutting Lines to the Print Data

Add cutting lines to the print data, which has been read into Designer, and create Print & Cut data. Cutting lines are added to the layer for cutting.

Procedure

1. On the function toolbar, click  [Layers].
2. Click [Add Layer]>[Cut Layer].
3. Select the cutting layer.
4. On the design toolbar, click  [Path].
5. Select [Ellipse], and draw the cutting lines.
Here, a cutting line is drawn around the print data.
6. Click [Stroke Color], and then select the magenta icon ([CutContour]) under [Roland Contour Colors].
The drawn circle (A) becomes magenta to use for cutting.



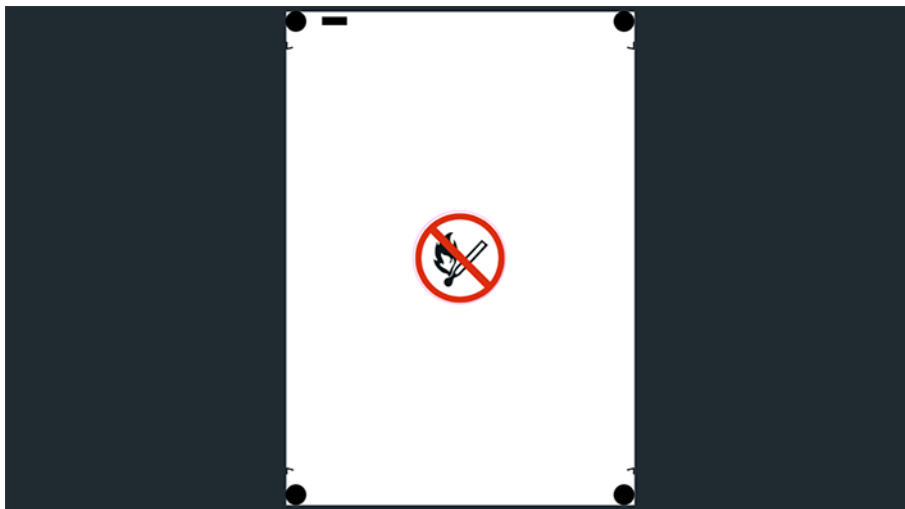
7. Click [Save Design].

Step 2: Setting Crop Marks

Set the crop marks.

Procedure

1. Select the cutting line, and then click  [Crop Marks] on the function toolbar.
Crop marks will be added to the four corners of the print data.



2. Click [Save Design].
The Print & Cut data will be saved.

Step 3: Output the Print & Cut Data

1. Print the Print & Cut Data

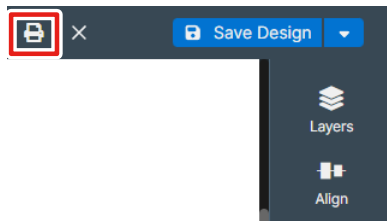
Send print data from Designer to the printer, and print the Print & Cut data.

MEMO

If you cannot output data from Designer, download the print data (pdf), and then print it.

Procedure

1. If Roland DG Connect Hub and VersaWorks are not running, start them.
2. Set up the media in the printer.
For details on how to set up the media, refer to the printer's documentation.
3. Hide the cutting layer of the print data.
 - (1) On the function toolbar, click  [Layers].
 - (2) Click  for the cutting layer to hide it.
4. Click  [Print] in the upper-right corner of the window.
The [Send To VersaWorks] window appears.
If editing of the design is in progress, perform the operation after saving the design file.



5. On the [Settings] tab, set the following items.
 - [Local User]
 - [Printer Name]
 - When you enter values in these two locations, the other items are automatically set. Change them as necessary.
6. Set [Action incoming jobs] under [Job Management].
 - [Do Nothing]
The job is sent to queue A of the model set in VersaWorks.
 - [RIP]
The job is sent to queue A of the model set in VersaWorks and is processed by the RIP according to the settings of queue A.
 - [RIP and Print]
The job is sent to queue A of the model set in VersaWorks and is processed by the RIP and is printed according to the settings of queue A.

7. Click [Send To VersaWorks].

- When **[RIP and Print]** is selected

The job is added to VersaWorks queue A with the specified settings, and output is performed.

- When **[Do Nothing]** or **[RIP]** is selected

The job is added to VersaWorks queue A with the specified settings. Proceed to Step 8.

VersaWorks operation

8. Check the job settings.

Double-click the added job to change items such as the number of copies to print, the scaling, and the printing position. For details, refer to the [VersaWorks Master Guide](#).

9. Perform printing.

2. Load the printed material

Load the material printed from a printer to the machine.

IMPORTANT

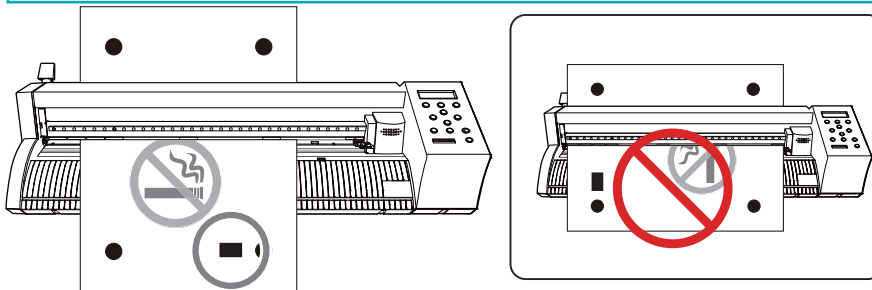
Curled material cannot be used, as crop marks may not be readable. If material curls when printed, straighten it out before loading it onto the machine.

Procedure

1. Set the material on the machine with the square mark in the lower-right corner.

IMPORTANT

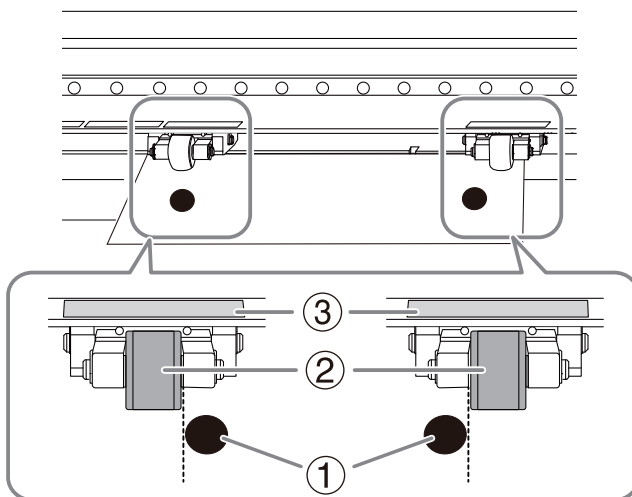
If the material is loaded in an incorrect direction, the machine will not be able to read the crop marks.



2. Position the pinch rollers.

Note the following points when positioning the pinch rollers.

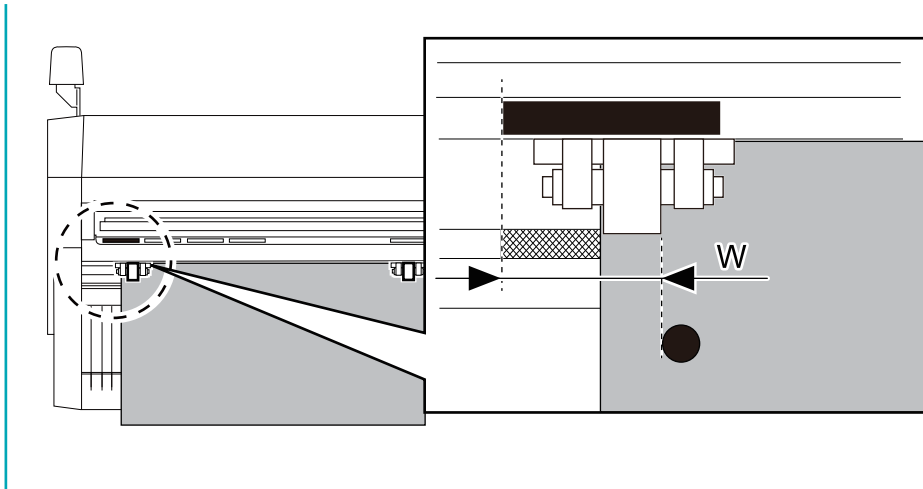
- Position the pinch rollers (②) to the outside of the crop marks (①)
- Make sure the pinch rollers (②) are set within the range of the grit patterns (③)



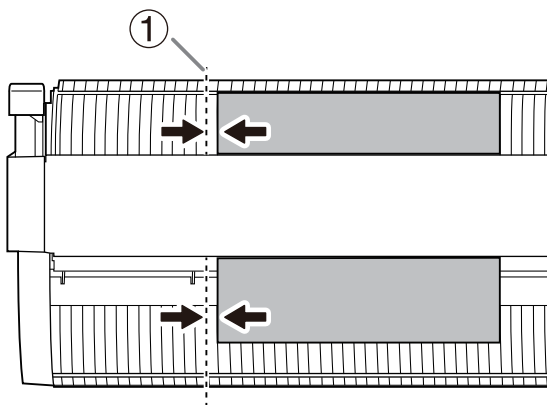
MEMO

Set the crop mark positions manually. Note the following points when using material in sizes other than A3, A4, or B4.

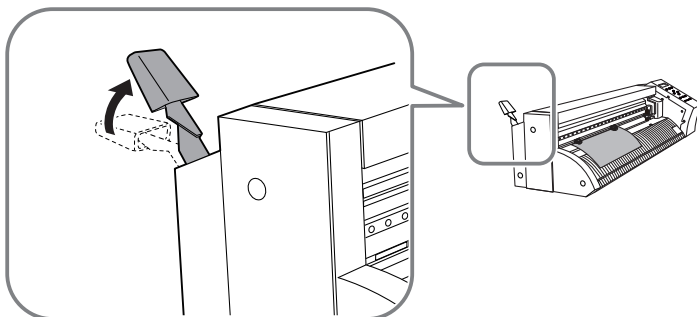
- When using a pinch roller within the leftmost grit pattern, make sure to leave at least 30 mm (1.19 in.) (W) from the left end of the grit pattern to the crop mark. If the cleared distance is less than 30 mm (1.19 in.), the crop mark cannot be read.



3. Align the left edge of the material so that it lies approximately parallel to the guide line (①).
View from above the Machine



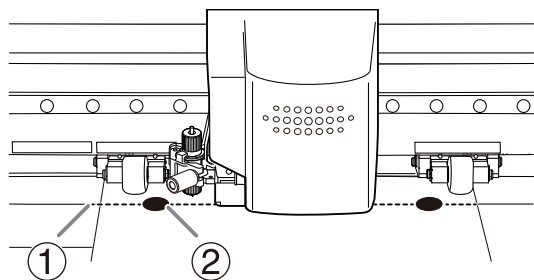
4. Raise the loading lever.
The material is secured in place.



5. Turn on the machine.
6. Select [PIECE] as the type of material.
7. Press [ENTER].
The cuttable width and length are displayed.

```
W: ****mm
L: ****mm
```

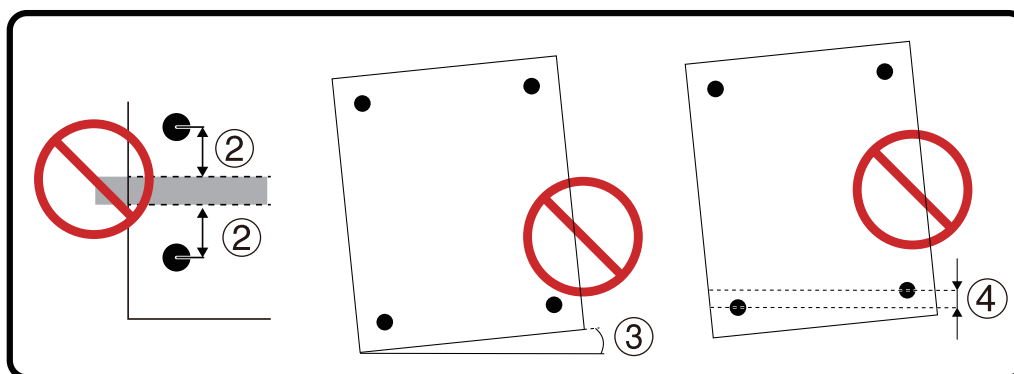
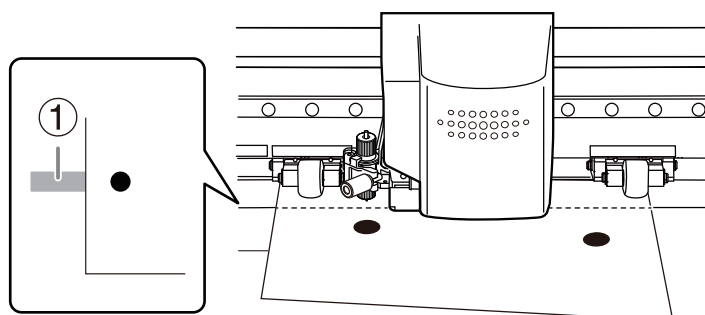
8. Press [$\blacktriangle$][$\blacktriangledown$] to move the material and position the crop mark (2) above the blade protector (1).



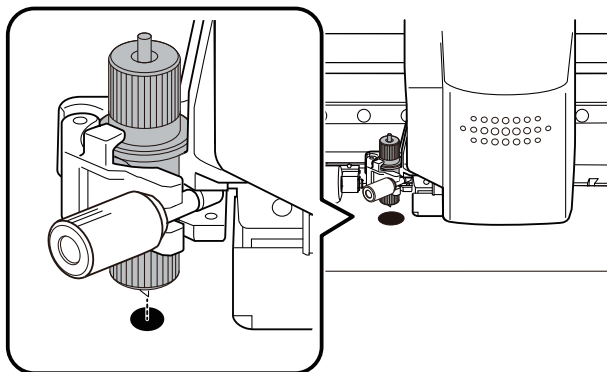
IMPORTANT

Crop marks cannot be read in the situations indicated below. Remove the material once, and then reload it.

- The crop marks are separated from the blade protector (1) by a distance of 15 mm (0.60 in.) or more (2)
- The left and right crop marks are slanted by 5 degrees or more (3) with respect to the moving direction of the cutting carriage
- The left and right crop marks deviate by 20 mm (0.79 in.) or more (4) in the material-feed direction



9. Press [$\blacktriangleleft$][$\blacktriangleright$] to move the cutting carriage so that the tip of the blade comes over the center of the lower-left crop mark.



Step 4: Configure the Setting to Perform Automatic Aligning

Position the crop marks automatically using the machine's integrated sensor.

Procedure

1. Press [MENU] several times to display the following screen.



2. Press [▼] several times to display the following screen.



3. Press [▶].

4. Press [▲] or [▼] to select "SENSOR MODE".



5. Press [ENTER] to select the setting.
6. Press [MENU] to return to the original screen.

Step 5: Setting the Cutting Conditions

Procedure

1. Check that the material has been properly loaded and set up.
[P. 24 Setting Up Material](#)
2. If Roland DG Connect Hub and VersaWorks are not running, start them.
3. Open the created Print & Cut data.
To access Designer again, click  on the right of the corresponding data under [Open Recent].
4. Display the cutting layer of the print data.
 - (1) On the function toolbar, click  [Layers].
 - (2) Click  for the cutting layer to display it.

Step 6: Performing Cutting

Send Print & Cut data to the machine, and start cutting.

⚠ WARNING

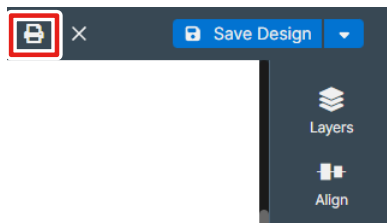
Never touch the cutting carriage while output is in progress.

The cutting carriage moves at high speed. Coming into contact with the moving carriage may cause injury.

Procedure

1. If Roland DG Connect Hub and VersaWorks are not running, start them.

2. Click  [Print] in the upper-right corner of the window.
The [Send To VersaWorks] window appears.



3. Select the [Crop Marks (Print & Cut Alignment)] checkbox under [Job Management].

4. Click [Send To VersaWorks].

- When [RIP and Print] is selected

The job is added to VersaWorks queue A with the specified cutting settings, the crop marks are read, and cutting output is performed.

- When [Do Nothing] or [RIP] is selected

The job is added to VersaWorks queue A with the specified cutting settings. Proceed to step 5.

VersaWorks operation

5. Double-click the added job and check the job settings.

6. Output the printing data.

The crop marks are read, and cutting output is performed.

Creating Cutting Data with a Design Tool

Creating and Outputting Cutting Data with a Design Tool66

Creating and Outputting Cutting Data with a Design Tool

If you have created cutting data with a design tool such as Adobe Illustrator and CorelDraw, follow the procedure below to cut the data.

1. Create the cutting data with a design tool.
Save the data as a PDF file.
2. Add the cutting data (PDF) to the VersaWorks queue folder.
3. Configure the job settings and output the data.

For information on how to operate VersaWorks, refer to the [VersaWorks Master Guide](#).

Procedures after Output

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- Pausing and Canceling Output71
 - Pausing the Output.....71
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Unloading/Cutting Off Material

After outputting, unload or cut off the material from the machine.

Removing the Material

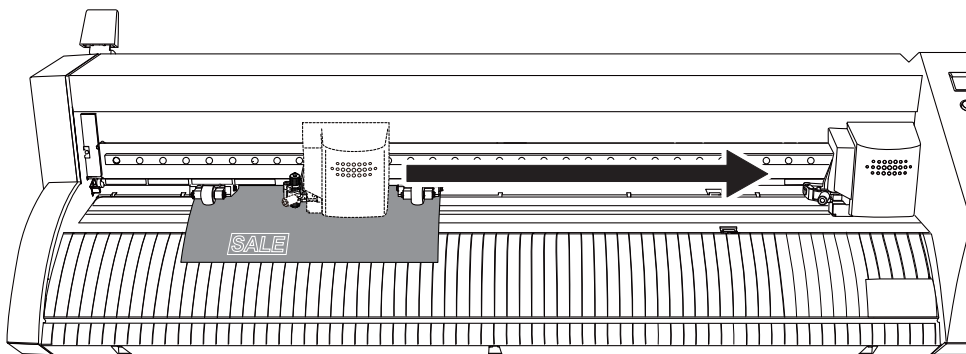
When cutting is finished, remove the material.

Procedure

1. Press [MENU] several times to display the following screen.



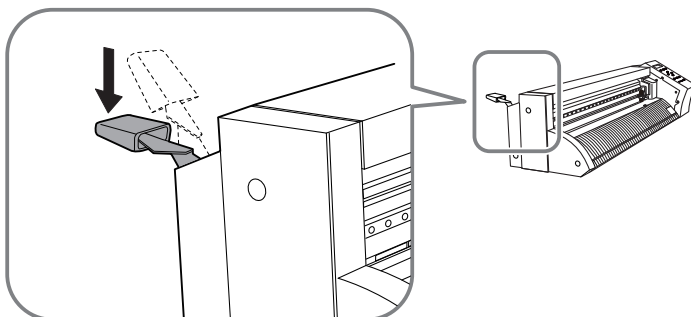
2. Press [ENTER].
The cutting carriage returns to the home position.



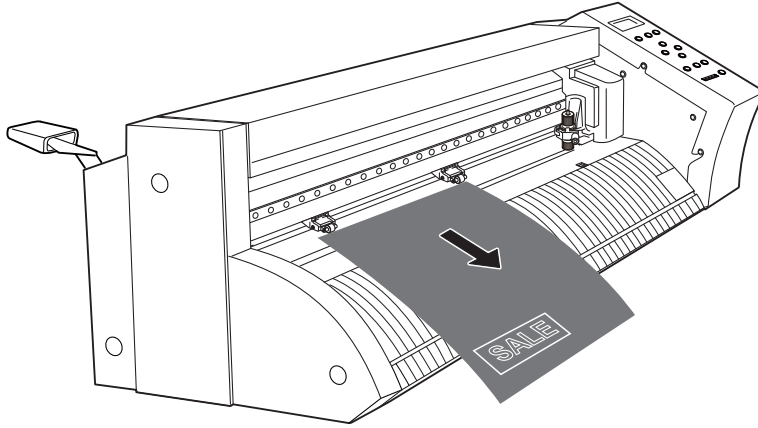
3. Lower the loading lever.

IMPORTANT

Do not use excessive force when moving the loading lever.
Doing so may damage it.



4. Remove the material.

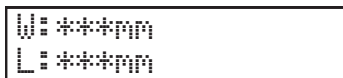


Cutting off Material

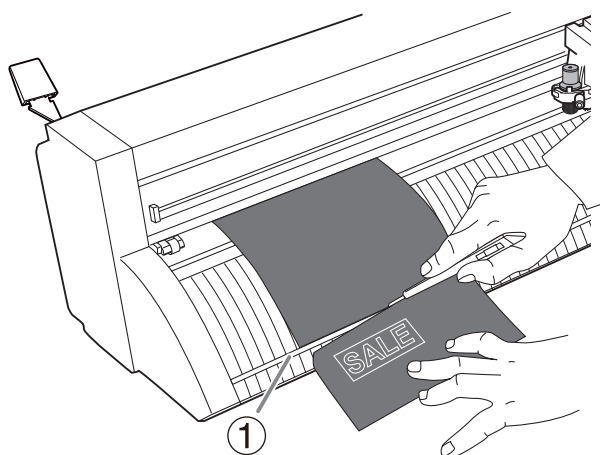
After outputting, cut off the material as required.

Procedure

1. Press [MENU] several times to display the following screen.



2. Press [▲][▼] to feed the material until the cut-off line exceeds the knife guide (①) position.
3. Cut the material using a blade, etc. along the knife guide on the machine's front surface.



Pausing and Canceling Output

Pausing the Output

An ongoing cutting process can be paused, and the paused cutting output can be resumed.

MEMO

This operation may compromise cutting quality. Whenever possible, avoid pausing.

Procedure

1. Press [PAUSE] before printing finishes.
Cutting output pauses.
2. Press [PAUSE] again.
The printing operation resumes.

Canceling Output

Perform the following operation to terminate cutting output while the cutting process is ongoing.

MEMO

This operation cancels the output data and will not allow the cut output to be resumed.

Procedure

1. Press [PAUSE] before printing finishes.
Cutting output pauses.
2. Hold down [ENTER] for one second or longer.
The output data is canceled. Start the cut output again.

Optimizing Quality and Efficiency

Optimizing Cutting Quality

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Cutting Conditions

General Guide Regarding Cutting Conditions

The three cutting conditions are blade force, cutting speed, and blade tip offset.

A general guide for cutting conditions and the service life of the blade for different combinations of materials and blades is given below.

Note that optimal cutting is not necessarily obtained simply by conforming to the conditions below. Before cutting, be sure to perform a cutting test with a suitable blade for the sheet material.

IMPORTANT

Certain blades are suitable for certain sheet materials. Cutting materials that are not specified as suitable may cause the blade to break.

Blade	Material	Cutting force(gf)	Cutting speed (cm/sec) (in./sec) ^{*1}	Blade tip offset (mm) (in.)	Service life (m) (ft.) ^{*2}
ZEC-U5032	General signage vinyl	30 to 100	20 or less	0.25	4.000
ZEC-U5025	General signage vinyl	40 to 100	20 or less	0.25	4.000
	Fluorescent vinyl	120 to 200	10 or less		2.500

*1 The faster the cutting speed is, the worse the image quality gets. Adjust the speed to match the required image quality.

*2 Service life is a general guide in the case where the same type of materials has been cut.

MEMO

When uncut areas remain even when the blade force is increased to a value that is 50 to 60 gf higher than the values shown in this chart, replace the blade.

RELATED LINKS

- [P. 42 Perform Test Cutting](#)
- [P. 75 Adjusting the Cut Setting](#)
- [P. 118 Replacing the Blade](#)

Adjusting the Cut Setting

Perform a cutting test before adjusting the cut setting. Adjust the cutting condition after checking the cutting test result. You can change the blade force, cutting speed, and the offset of the blade tip from the printer driver's [Print Setting] window (or Designer/VersaWorks).

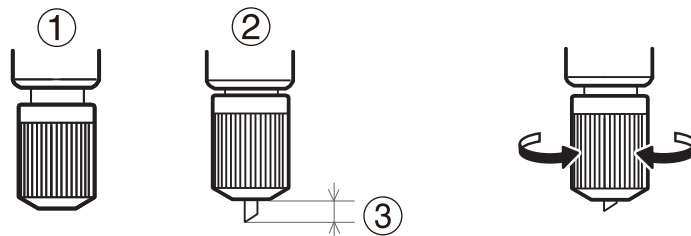
RELATED LINKS

- [P. 42 Perform Test Cutting](#)

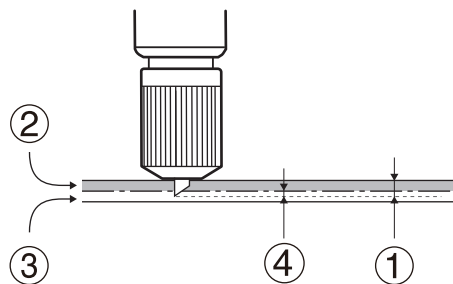
Adjusting the Cutting-in Amount

When you want to perform accurate and fine adjustment of the cutting-in amount, such as when cutting material with thin carrier paper, you can obtain good results by adjusting the amount of blade extension. Turn the cap portion of the blade holder to adjust the amount of blade extension.

The amount of blade extension (③) is 0 mm (①) at minimum and 2.5 mm (98.42 mil) (②) at maximum. An adjustment of 0.5 mm (0.02 in.) can be made by rotating the cap one full turn.

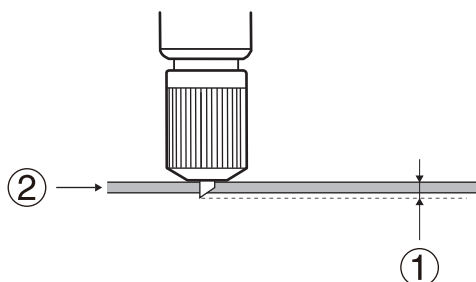


Set the amount of blade extension (①) to an amount that is the sum of the thickness of the material portion (②) and half (④) the thickness of the carrier paper (③).



MEMO

If you are cutting perforated lines in material without carrier paper, set the amount of blade extension (①) so that when the cutter pierces the material (②), the blade extends slightly. Pushing the blade out too far will damage the blade and blade protector and hasten their deterioration, so exercise caution.

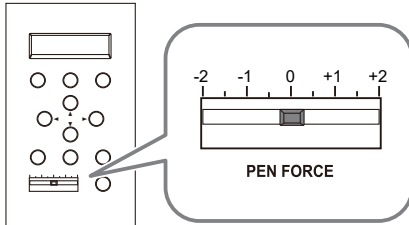


Setting the Blade Force

If the design peels off or if the carrier paper is also cut with the material, change the blade force.

Procedure

1. Check that the PEN FORCE slider [PEN FORCE] is at the center position (at "0" on the scale).



2. Press [FORCE].

The current blade force is displayed.



3. Press [▲] or [▼] to select a value.
4. Press [ENTER] to select the setting.

MEMO

- Factory default setting: 50 gf
- Setting range: 30 to 500 gf (can be changed in 10 gf steps)

RELATED LINKS

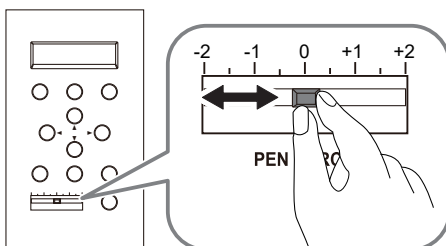
- [P. 74 General Guide Regarding Cutting Conditions](#)

Fine-tuning the Blade Force

After you set the blade force using the "FORCE" menu, you can further fine-tune the blade force using the PEN FORCE slider. "FORCE" Use this operation when you want to make the blade force slightly larger or smaller than the setting made using the menu.

Procedure

1. Adjust the blade force with the PEN FORCE slider.



- Adjustable range: $\pm$ Approximately 30 gf

MEMO

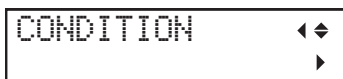
The value adjusted here is only a rough guide. The accuracy of this value is not guaranteed.

Setting the Cutting Speed

Set the cutting speed.

Procedure

1. Press [MENU] several times to display the following screen.



MEMO

When the material is loaded, follow the following procedure to display the screen.

1. Press [MENU] several times to display the following screen.



2. Press [▼].

2. Press [▶].

3. Press [▲][▼] to display the following screen.



4. Press [▶].

5. Press [▲] or [▼] to select a value.



6. Press [ENTER] to select the setting.

7. Press [MENU] to return to the original screen.

MEMO

- Factory default setting: 20 cm/s
- Setting range: 1 to 85 cm/s (0.40 to 33.46 in./s) (1 cm/s (0.39 in./s) steps)

RELATED LINKS

- [P. 74 General Guide Regarding Cutting Conditions](#)

Setting the Blade Tip Offset Amount

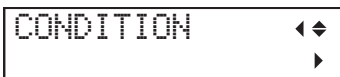
This setting lets you set the offset for the tip of the blade. Enter the listed offset value for the blade. When using the included blade, cutting can be performed using the factory-default settings.

MEMO

If the beginning of a cut deviates from the intended location or if the corners of a shape are not clean, adjust the offset value.

Procedure

1. Press [MENU] several times to display the following screen.



MEMO

When the material is loaded, follow the following procedure to display the screen.

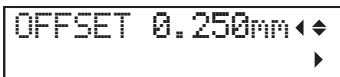
1. Press [MENU] several times to display the following screen.



2. Press [▼].

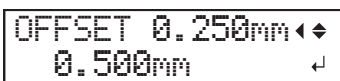
2. Press [▶].

3. Press [▲][▼] to display the following screen.



4. Press [▶].

5. Press [▲] or [▼] to select a value.



6. Press [ENTER] to select the setting.

7. Press [MENU] to return to the original screen.

MEMO

- Factory default setting: 0.250 mm
- Setting range: 0.000 to 1.000 mm (0.000 to 0.039 in.) (in 0.025 mm (in 0.001 in.) steps)

RELATED LINKS

- [P. 74 General Guide Regarding Cutting Conditions](#)

Set the Orientation of Cutting Coordinates

Rotate the cutting coordinates, and decide which direction to cut the material.

Procedure

1. Press [MENU] several times to display the following screen.

CONDITION ◀▶
▶

MEMO

When the material is loaded, follow the following procedure to display the screen.

1. Press [MENU] several times to display the following screen.

UNSETUP ◀▶
↵

2. Press [▼].

2. Press [▶].

3. Press [▲][▼] to display the following screen.

ROTATE 0deg A ◀▶
▶

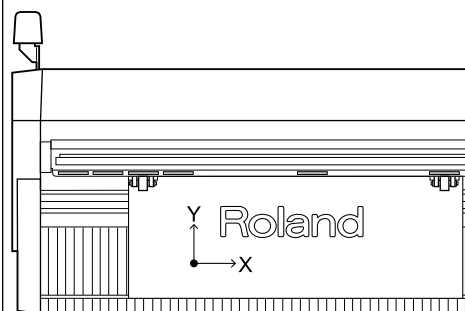
4. Press [▶].

5. Press [▲] or [▼] to select a setting.

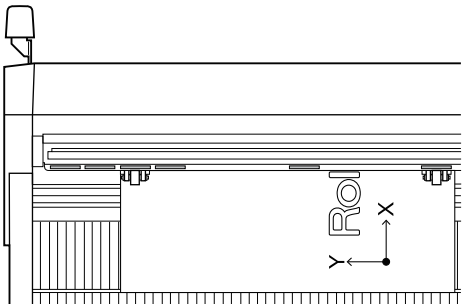
ROTATE 0deg A ◀▶
*0deg A ↵

"0deg"

The arrows in the following figures indicate the positive directions of the X and Y axes respectively.



- Origin point: Bottom left
- Coordinate axis:
Vertical direction: Y axis
Horizontal direction: X axis

"90deg"	The arrows in the following figures indicate the positive directions of the X and Y axes respectively. 	• Origin point: Bottom right • Coordinate axis: Vertical direction: X axis Horizontal direction: Y axis
----------------	---	--

6. Press [ENTER] to select the setting.

MEMO

- Factory default setting: "0deg"

You can also confirm the setting value by pressing MENU several times to display the following screen.

- When set to "0deg"

20cm/s
250gf 0.250mm (L A)

- When set to "90deg"

20cm/s
250gf 0.250mm (L C)

7. Press [MENU] to return to the original screen.

RELATED LINKS

- [P. 74 General Guide Regarding Cutting Conditions](#)

Extending the Cutting Area

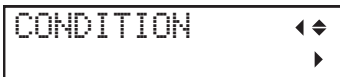
Extending the cutting area allows for maximum material usage.

MEMO

Depending on the design to be cut, the pinch rollers may pass over the top of the cutting line.

Procedure

1. Press [MENU] several times to display the following screen.



MEMO

When the material is loaded, follow the following procedure to display the screen.

1. Press [MENU] several times to display the following screen.



2. Press [▼].

2. Press [▶].

3. Press [▲][▼] to display the following screen.



4. Press [▶].

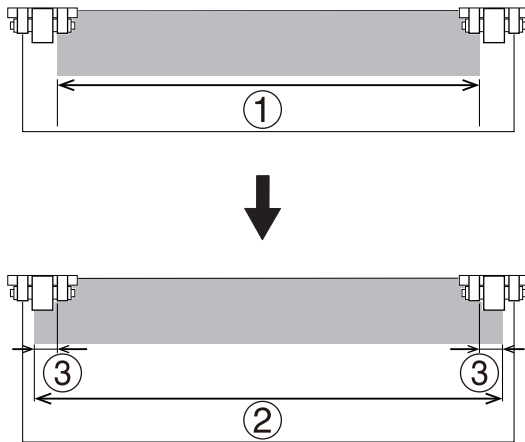
5. Press [▲] or [▼] to select a value.



IMPORTANT

- The set value is applied to both ends of the cutting area.
- If "EXTEND" is set after loading material, the "W" value displayed on the operation panel will differ from the actual cut width.

Example: When setting from 0 mm (0 in.) to 10.0 mm (0.39 in.)



①	200 mm
②	220 mm (8.66 in.)
③	10 mm

6. Press [ENTER] to select the setting.

7. Press [MENU] to return to the original screen.

MEMO

- Factory default setting: 0.0 mm
- Setting range: 0.0 to 10.0 mm (0.0 to 0.39 in.)

RELATED LINKS

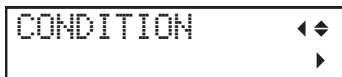
- [P. 36 Select the Material Type](#)

Setting the Speed of the Blade During Cutting

This setting lets you set the speed for moving the blade to the next cutting position with the blade lifted off the material during cutting operation. When cutting material that is thinner or thicker than the standard material, it may be better to decrease the speed to prevent problems such as the material being lifted up.

Procedure

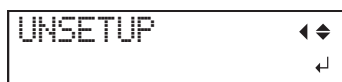
1. Press [MENU] several times to display the following screen.



MEMO

When the material is loaded, follow the following procedure to display the screen.

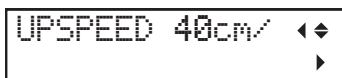
1. Press [MENU] several times to display the following screen.



2. Press [▼].

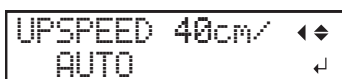
2. Press [▶].

3. Press [▲][▼] to display the following screen.



4. Press [▶].

5. Press [▲] or [▼] to select a value.



When "AUTO" is set, it moves at the speed set in "SPEED". Increasing "UPSPEED" shortens the cutting time.

6. Press [ENTER] to select the setting.

7. Press [MENU] to return to the original screen.

MEMO

- Factory default setting: "AUTO"
- Setting range: 10 to 85 cm/s (3.94 to 33.46 in./s) (5 cm/s (1.97 in./s) steps), "AUTO"

RELATED LINKS

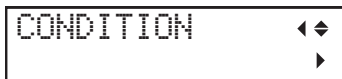
- [P. 74 General Guide Regarding Cutting Conditions](#)

Smoothly Cutting Arcs and Other Curves (Smoothing)

You can set the curves in cutting data sent to this machine to be smooth. Normally set the height-adjustment lever to "ON". If corner cuts are too round when cutting small text or intricate shapes, set this to "OFF". We recommend that you also set this to "OFF" when you need to increase productivity regardless of quality.

Procedure

1. Press [MENU] several times to display the following screen.

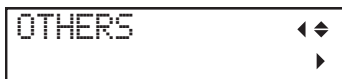


MEMO

When the material is loaded, press [MENU] several times to display the following screen.

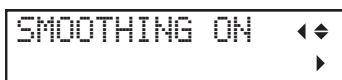


2. Press [▼] several times to display the following screen.



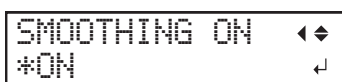
3. Press [▶].

4. Press [▲][▼] to display the following screen.



5. Press [▶].

6. Press [▲] or [▼] to select "ON" or "OFF".



7. Press [ENTER] to select the setting.

8. Press [MENU] to return to the original screen.

MEMO

- Factory default setting: "ON"

Cutting in the Same Position Repetitively (Overlap)

Cutting is repeated several times at the same position with the same cut data. Use this setting for materials that cannot be cut through in a single pass, such as thick materials.

Procedure

1. Press [MENU] several times to display the following screen.

CONDITION ◀▶
▶

MEMO

When the material is loaded, press [MENU] several times to display the following screen.

UNSETUP ◀▶
↵

2. Press [▼] several times to display the following screen.

OTHERS ◀▶
▶

3. Press [▶].

4. Press [▲][▼] to display the following screen.

OVERLAP OFF ◀▶
▶

5. Press [▶].

6. Press [▲] or [▼] to select a value.

OVERLAP OFF ◀▶
*OFF ↵

MEMO

In addition to the normal cut, cutting is performed a number of times equal to the set value.

7. Press [ENTER] to select the setting.
8. Press [MENU] to return to the original screen.

MEMO

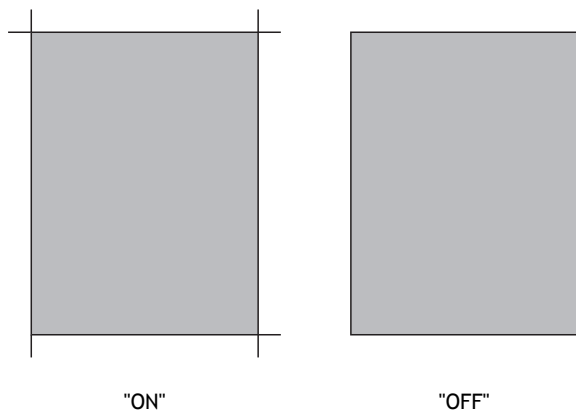
- Factory default setting: "OFF"
- Setting range: "OFF", 1 to 10

RELATED LINKS

- [P. 64 Performing Cutting](#)

Cutting Corners Cleanly (Over Cut)

This function cuts extra at the start and the end of a cutting line. It is effective when you want to produce particularly sharp corners, for example when cutting thicker materials. When cutting small characters or complex shapes, this function is normally set to "OFF" to avoid cutting necessary parts of the material.



Procedure

1. Press [MENU] several times to display the following screen.

CONDITION ◀▶
▶

MEMO

When the material is loaded, press [MENU] several times to display the following screen.

UNSETUP ◀▶
↵

2. Press [▼] several times to display the following screen.

OTHERS ◀▶
▶

3. Press [▶].

4. Press [▲][▼] to display the following screen.

OVER CUT OFF ◀▶
▶

5. Press [▶].

6. Press [▲] or [▼] to select "ON" or "OFF".

OVER CUT OFF ◀▶
*OFF ↵

7. Press [ENTER] to select the setting.

8. Press [MENU] to return to the original screen.

MEMO

- Factory default setting: "OFF"

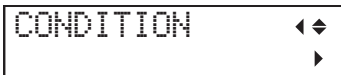
Preventing and Correcting Misaligned Cutting

Using Thinner or Harder Material than Normal

Turn on the suction fan to hold the material in place during cutting so as to prevent the material from lifting up or moving out of place. Normally use "AUTO" as is. However, the air volume of the suction fan should be lowered when using materials that are thin and/or not firm.

Procedure

1. Press [MENU] several times to display the following screen.



CONDITION ◀▶

MEMO

When the material is loaded, press [MENU] several times to display the following screen.



UNSETUP ◀▶
↵

2. Press [▼] several times to display the following screen.



OTHERS ◀▶

3. Press [▶].

4. Press [▲][▼] to display the following screen.



VACUUMFAN AUTO ◀▶

5. Press [▶].

6. Press [▲] or [▼] to select a value.

Use a weaker air volume when using thin material.



VACUUMFAN AUTO ◀▶
*AUTO ↵

7. Press [ENTER] to select the setting.

8. Press [MENU] to return to the original screen.

MEMO

- Factory default setting: "AUTO"
- Setting range: 1 to 5, "AUTO"

Preventing Misaligned Cutting

Material is automatically fed before and during cutting in order to avoid misalignment of cutting positions. If this is set as "ON", the material is automatically fed forward for 1 m (3.28 ft.) whenever the computer sends out cut data (depending on the data, the material may be fed out 1 m (3.28 ft.) or more), then the cutting starts.

MEMO

If material has already been fed out using the "AREA" function, the material will not be fed out automatically for the amount that has already been fed out, even if "PRE-FEED" is set to "ON".

Procedure

1. Press [MENU] several times to display the following screen.

CONDITION ◀▶
▶

MEMO

When the material is loaded, press [MENU] several times to display the following screen.

UNSETUP ◀▶
↵

2. Press [▼] several times to display the following screen.

OTHERS ◀▶
▶

3. Press [▶].

4. Press [▲][▼] to display the following screen.

PRE-FEED OFF ◀▶
▶

5. Press [▶].

6. Press [▲] or [▼] to select "ON" or "OFF".

PRE-FEED OFF ◀▶
*OFF ↵

7. Press [ENTER] to select the setting.

8. When "ON" is selected, set the material feeding speed.

- (1) Press [▶] twice to display the screen shown below.

SPEED 40cm/s ◀▶
▶

- (2) Press [▶].

(3) Press [▲] or [▼] to select a value.

(4) Press [ENTER] to select the setting.

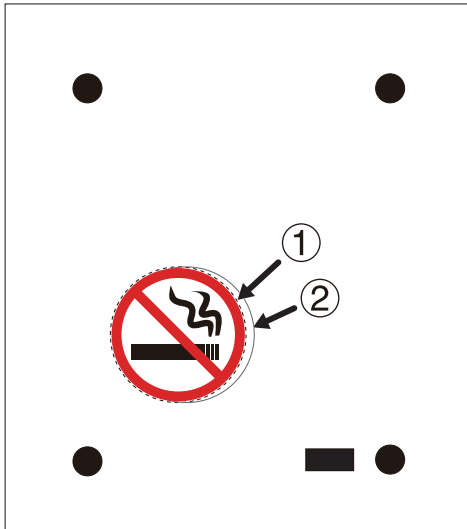
9. Press [MENU] to return to the original screen.

MEMO

- Factory default setting: "OFF"
- Setting range: "ON" (1 to 10 cm/s) (0.40 to 3.93 in./s), "OFF"

Adjusting the Cutting Position

If the printing position and the cutting position are offset as shown in the following figure, you can correct the issue by adjusting either the printing position or the cutting position. This example shows the procedure for adjusting the cutting position.



①: Intended cutting line

②: Actual cutting line

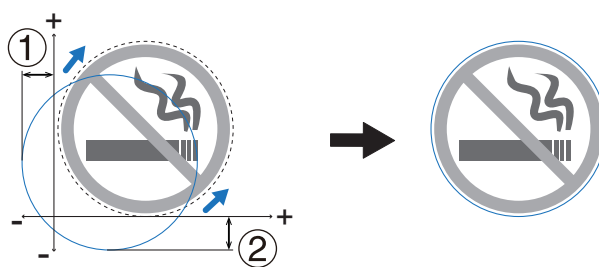
Procedure

1. Check that the material has been loaded.

2. Check the correction values based on the cutting status.

"CROP-L" indicates the feed direction of the material, and "CROP-W" indicates the moving direction of the cutting carriage.

Example: To move the cutting line 0.5 mm (0.02 in.) to the right (①) and 0.7 mm (0.03 in.) up (②)



- CROP-W: Set to +0.500
- CROP-L: Set to +0.700

3. Press [MENU] several times to display the following screen.



4. Press [▼] to display the following screen.

OTHERS

5. Press [▶].

6. Press [▲][▼] to display the following screen.

CROP ADJ.

7. Set the correction values for CROP-L and CROP-W.

(1) Press [▶] twice to display the screen shown below.

CROP-L 0.000
*0.000mm

(2) Press [▲][▼] to set the correction value for CROP-L.

(3) Press [ENTER] to select the setting.

(4) Press "▼", then "▶" to display the screen shown below.

CROP-W 0.000
*0.000mm

(5) Press [▲][▼] to set the correction value for CROP-W.

(6) Press [ENTER] to select the setting.

8. Press [MENU] to return to the original screen.

9. Perform cutting again.

If misalignment of the cutting line is corrected, adjustment is complete. If further adjustment is needed, repeat the process.

MEMO

- Default setting:
"CROP-L": (Material feed direction) 0.000
"CROP-W": (Cutting carriage moving direction) 0.000
- Setting range: -25.000 mm (-0.985 in.) to +25.000 mm (+0.984 in.)

Optimizing Work Efficiency

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Cutting the Same Data Repetitively

"REPLOTT"

Data received from the computer can be saved to the machine's memory, and that data can then be repeatedly used to cut (recut). To recut, use "REPLOTT" in the display menu.

- All the data received from the time the machine is put in the setup condition to the time the setup condition is canceled is saved.
- The data is not cleared even when the setup condition is canceled.
- If the setup condition is canceled and the machine is then put back in the setup condition again, any data that was saved is overwritten with the new data that is sent from the computer.
- All data is cleared when the power is turned off.
- If the data stored in the machine memory exceeds 2 MB, recutting cannot be performed until the data is cleared. If "REPLOTT" is carried out under this condition, "DATA OVERFLOW" appears. If no data is stored in the machine's memory, "NO DATA" appears when "REPLOTT" is selected from the menu.

Step 1: Prepare the Data for Recutting

Clear all data remaining in the machine's memory, and then send new data so that only the required data is stored in the machine's memory.

Procedure

1. Check that the material has been loaded.
2. Press [MENU] several times to display the following screen.

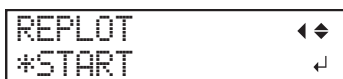
A screenshot of a monochrome LCD screen showing the text "UNSETUP" in a large, pixelated font. To the right of the text are two small, vertically aligned arrow icons (left and right). Below the text is a small icon of a left arrow pointing to a right arrow.

3. Press [▼] several times to display the following screen.

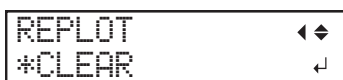
A screenshot of a monochrome LCD screen showing the text "REPLOTT" on the first line and "<DATA EXISTS>" on the second line, both in a pixelated font. To the right of the text are two small, vertically aligned arrow icons (left and right). Below the text is a small icon of a left arrow pointing to a right arrow.

If "NO DATA" is displayed, proceed to Step 6.

4. Press [▶].

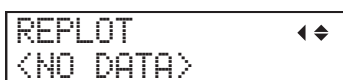
A screenshot of a monochrome LCD screen showing the text "REPLOTT" on the first line and "*START" on the second line, both in a pixelated font. To the right of the text are two small, vertically aligned arrow icons (left and right). Below the text is a small icon of a left arrow pointing to a right arrow.

5. Press [▼] to select "CLEAR".

A screenshot of a monochrome LCD screen showing the text "REPLOTT" on the first line and "*CLEAR" on the second line, both in a pixelated font. To the right of the text are two small, vertically aligned arrow icons (left and right). Below the text is a small icon of a left arrow pointing to a right arrow.

6. Press [ENTER].

The data is cleared.

A screenshot of a monochrome LCD screen showing the text "REPLOTT" on the first line and "<NO DATA>" on the second line, both in a pixelated font. To the right of the text are two small, vertically aligned arrow icons (left and right). Below the text is a small icon of a left arrow pointing to a right arrow.

7. Send data from the computer.

Step 2: Recutting

Procedure

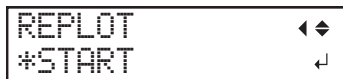
1. Press [MENU] several times to display the following screen.

A screenshot of a screen displaying the text "UNSETUP" in a monospaced font. To the right of the text are two small diamond-shaped navigation icons (left and right arrows) and a small square icon with a right arrow below it.

2. Press [▼] several times to display the following screen.

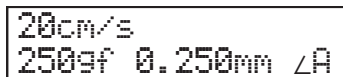
A screenshot of a screen displaying the text "REPLOT" on the first line and "<DATA EXISTS>" on the second line. To the right of the text are two small diamond-shaped navigation icons (left and right arrows) and a small square icon with a right arrow below it.

3. Press [▶].

A screenshot of a screen displaying the text "REPLOT" on the first line and "*START" on the second line. To the right of the text are two small diamond-shaped navigation icons (left and right arrows) and a small square icon with a right arrow below it.

4. Press [ENTER].

The display goes back to the one shown below, and the cutting, which has been saved in the memory, is performed.

A screenshot of a screen displaying cutting parameters. The first line shows "20cm/s" and the second line shows "250gf 0.250mm /A".

Saving Frequently-used Cutting Conditions

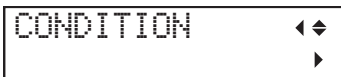
Saving the Cutting Conditions

To save the time spent on setting up cutting conditions for every material changeover, you can save the cutting conditions of frequently-used materials in the memory. The next time you use the same material, you can change the settings to those suitable for the material simply by loading the memory you saved.

Eight sets of settings can be saved to the USER 1 through USER 8 memories. Overwriting a memory deletes any old cutting conditions it contains.

Procedure

1. Press [MENU] several times to display the following screen.

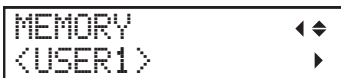
A screenshot of a screen with the word "CONDITION" on the left and two arrow keys (left and right) on the right.

MEMO

When the material is loaded, press [MENU] several times to display the following screen.

A screenshot of a screen with the word "UNSETUP" on the left and two arrow keys (left and right) on the right.

2. Press [▼] several times to display the following screen.

A screenshot of a screen with the word "MEMORY" on the left and two arrow keys (left and right) on the right. Below "MEMORY" is the text "<USER1>".

3. Press [▶], [▼], then [▶].

A screenshot of a screen with the text "SAVE USER1" on the left and two arrow keys (left and right) on the right. Below "SAVE USER1" is the text "50-20-0.250".

The display shows the values of the "FORCE", "SPEED", and "OFFSET" menus from the left.

4. Press [▲][▼] to select the memory number you wish to save cutting conditions to.

5. Press [ENTER].

The screen shown below appears.

A screenshot of a screen with the text "SAVE USER2" on the left and two arrow keys (left and right) on the right.

6. Press [MENU] to return to the original screen.

MEMO

Though not shown on the display, the UPSPEED (the speed at which the blade moves when not cutting) and cut quality are also saved.

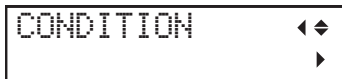
Loading Cutting Conditions

Select a saved memory, and apply that to the operation panel.

You can select a memory from USER 1 to USER 8. Note that loading cutting conditions from memory erases any cutting conditions that have not been saved.

Procedure

1. Press [MENU] several times to display the following screen.

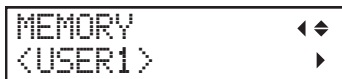


MEMO

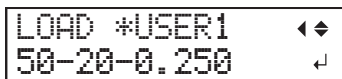
When the material is loaded, press [MENU] several times to display the following screen.



2. Press [▼] several times to display the following screen.



3. Press [▶] twice.

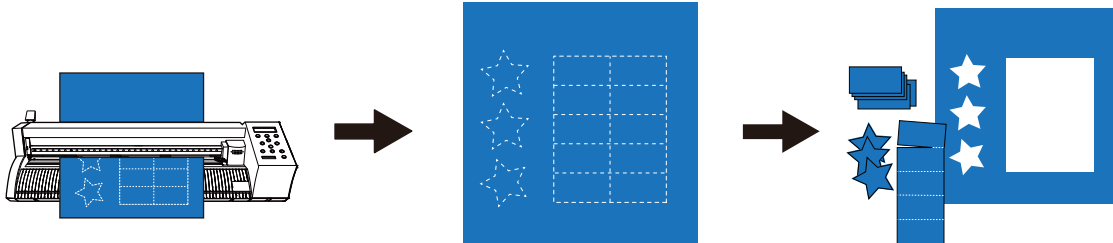


4. Press [▲][▼] to select the memory number you wish to load.
5. Press [ENTER] to execute.
6. Press [MENU] to return to the original screen.

Separating the Cut Area Later

Perforated cutting can be used for cutting material without carrier paper or for making creases on the cut data.

The cut area is separated after cutting to avoid material becoming jammed.



RELATED LINKS

- [P. 24 Setting Up Material](#)
- [P. 38 Preparations for Cutting Output](#)
- [P. 63 Setting the Cutting Conditions](#)
- [P. 56 Setting Crop Marks](#)

Creating Perforated Cut Data Using Designer

1. Create Perforated Cut Data

Load material to the machine beforehand, and finish preparing the cut output.

[P. 24 Setting Up Material](#)

[P. 38 Preparations for Cutting Output](#)

Procedure

1. Start Designer.

[P. 13 Starting Roland DG Connect Designer](#)

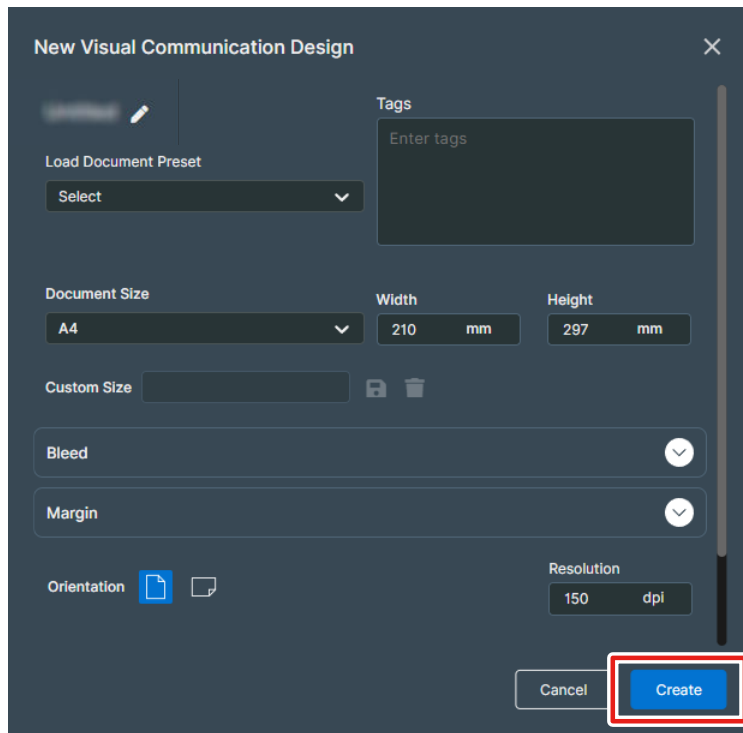
2. From the dashboard, click [New Design].

3. Click [Visual Communication Design].

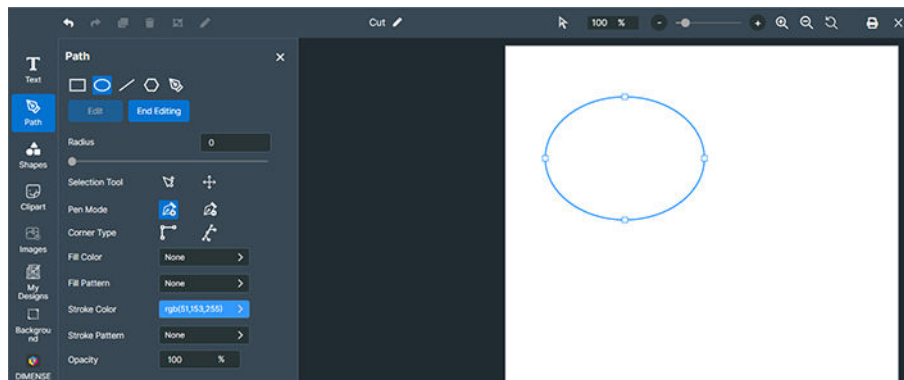
4. Specify the design setting, and then click [Create].

Create a new design by changing the design name, setting the size, and configuring initial settings such as vertical or horizontal orientation.

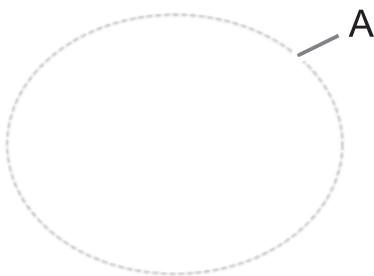
You can also change the settings later from the design window.



- On the design toolbar, click [Path] to draw the shape.
In this example, you will create the design shown in the figure below.



- Click [Stroke Color], and then select the gray icon ([PerfCutContour]) under [Roland Contour Colors].
The drawn circle (A) becomes a gray dotted line to use as a perforated cut.



- Click [Save Design].

2. Set Perforated Cutting Conditions

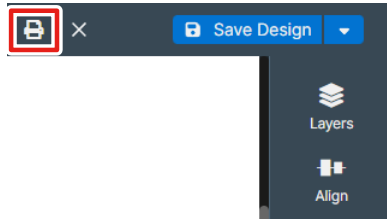
Procedure

1. If Roland DG Connect Hub and VersaWorks are not running, start them.

2. Click  [Print] in the upper-right corner of the window.

The [Send To VersaWorks] window appears.

If editing of the design is in progress, perform the operation after saving the design file.



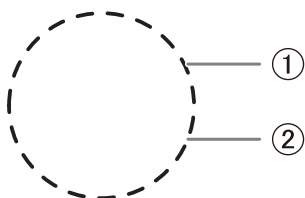
3. On the [Settings] tab, set the following items.

- [Local User]
- [Printer Name]
- When you enter values in these two locations, the other items are automatically set. Change them as necessary.

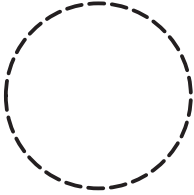
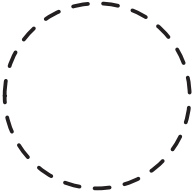
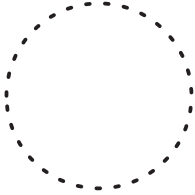
4. Set [Action incoming jobs] under [Job Management].

- [Do Nothing]
The job is sent to queue A of the model set in VersaWorks.
- [RIP]
The job is sent to queue A of the model set in VersaWorks and is processed by the RIP according to the settings of queue A.
- [RIP and Print]
The job is sent to queue A of the model set in VersaWorks and is processed by the RIP and is printed according to the settings of queue A.

5. Click [Controls], and then set [Perforated cut conditions].



- ①: Perforation length
Length of the part cut out from the material
 - ②: Half-cut Length
Length of the part not cut out from the material with suppressed blade force
- Adjust the perforation force or the half-cut force according to the type of material.

[Perforated length] > [Half cut length]	[Perforated length] = [Half cut length]	[Perforated length] < [Half cut length]
		
Perforation length: 20 mm (0.79 in.) Half-cut length: 1 mm (0.04 in.)	Perforation length: 20 mm (0.79 in.) Half-cut length: 20 mm (0.79 in.)	Perforation length: 1 mm (0.04 in.) Half-cut length: 20 mm (0.79 in.)

RELATED LINKS

- [P. 74 General Guide Regarding Cutting Conditions](#)
- [P. 76 Setting the Blade Force](#)
- [P. 105 Setting Perforated Cutting Conditions on the Machine](#)

3. Cut Perforated Lines

Procedure

1. Check that the material has been loaded.
2. Select the [Crop Marks (Print & Cut Alignment)] checkbox under [Job Management].
3. Click [Send To VersaWorks].
 - When [RIP and Print] is selected
The job is added to VersaWorks queue A with the specified cutting settings, and cutting output is performed.
 - When [Do Nothing] or [RIP] is selected
The job is added to VersaWorks queue A with the specified cutting settings. Proceed to step 4.

VersaWorks operation

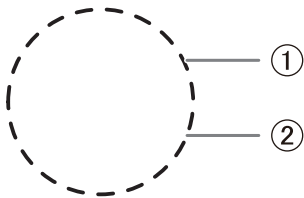
4. Check the job settings.
5. Output the printing data.

RELATED LINKS

- [P. 102 Set Perforated Cutting Conditions](#)
- [P. 75 Adjusting the Cut Setting](#)

Setting Perforated Cutting Conditions on the Machine

Set up perforated cutting conditions on the operation panel of the machine. In this example, "HALF LEN.", "HALF FORCE", and "CUT LEN." will be set.



- ①: "CUT LEN."
Length of the part cut out from the material
- ②: "HALF LEN."
Length of the part not cut out from the material with suppressed blade force

Adjust "HALF FORCE" according to the type of material.

"CUT LEN.">"HALF LEN."	"CUT LEN."="HALF LEN."	"CUT LEN."<"HALF LEN."
Cut Length: 20 mm (0.8 in.) Half-cut Length: 1 mm (0.04 in.)	Cut Length: 20 mm (0.8 in.) Half-cut Length: 20 mm (0.8 in.)	Cut Length: 1 mm (0.04 in.) Half-cut Length: 20 mm (0.8 in.)

Procedure

1. Press [MENU] several times to display the following screen.



MEMO

When the material is loaded, press [MENU] several times to display the following screen.



2. Press [▼] several times to display the following screen.



3. Press [▶].

4. Press [▲][▼] to display the following screen.

PERFORATE OFF ◀▶
▶

5. Press [▶].
6. Press [▲] or [▼] to select "ON".
7. Press [ENTER] to select the setting.
8. Press [▶] twice to display the screen shown below.
Set the half-cut length.

HALF LEN. 0.5 ◀▶
▶

- (1) Press [▶].
- (2) Press [▲] or [▼] to select a value.

HALF LEN. 0.5 ◀▶
* 0.5mm ↵

- (3) Press [ENTER] to select the setting.

9. Press [▼] to display the following screen.
Set the half-cut force.

HALF FORCE 5 ◀▶
▶

- (1) Press [▶].
- (2) Press [▲] or [▼] to select a value.

HALF FORCE 5 ◀▶
* 5gf ↵

- (3) Press [ENTER] to select the setting.

10. Press [▼] to display the following screen.
Set the cut length.

CUT LEN. 15.5 ◀▶
▶

- (1) Press [▶].
- (2) Press [▲] or [▼] to select a value.

CUT LEN. 15.5 ◀▶
15.5mm ↵

- (3) Press [ENTER] to select the setting.

11. Press [MENU] to return to the original screen.

RELATED LINKS

- [P. 74 General Guide Regarding Cutting Conditions](#)

Dividing Cut Data and Outputting it on Multiple Pieces of Material

Overview of Tiled Output

When data is larger than the cuttable range, the data is divided into multiple pieces of material to be output.



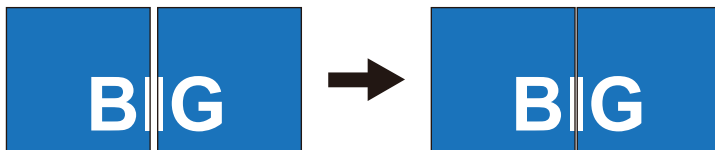
IMPORTANT

Tiled output is unavailable for Print & Cut data.

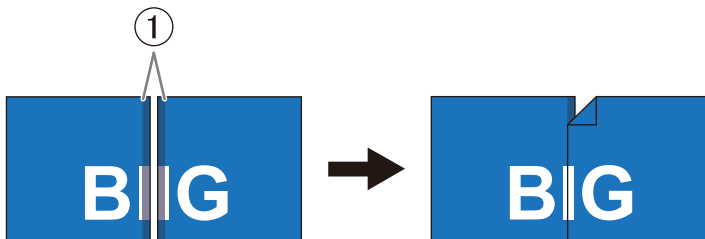
Overlap function

To avoid gaps when connecting different pieces of material, the border of each tiled output piece can have extra cut area. The extra part that is cut is called the overlap (①). You can set the overlap as required.

- Without overlap: Gap between borders when pieces are connected



- With overlap: No gap between borders when pieces are connected



The settings for dividing and for overlapping are configured in VersaWorks. For details, refer to the VersaWorks Master Guide.

RELATED LINKS

- [VersaWorks manual](#)

Optimizing Operation Management

- Managing the Basic Settings of the Machine..... 109
 - Changing the Display Language 109
 - Changing the Unit of Length to Be Displayed 109
 - Adjusting the Brightness of the Display..... 111
 - Restoring Default Settings 112

Managing the Basic Settings of the Machine

Changing the Display Language

Procedure

1. When the machine power is on, press the power button for 1 second or longer to turn off the power.
2. Hold down [MENU] and press the power button.
The screen shown below appears.



LANG. ENGLISH ◀▶
*ENGLISH ↵

3. Press [▼] to select the language to show on the display.



LANG ENGLISH ▶
日本語 ↵

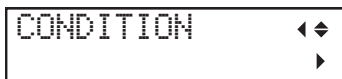
4. Press [ENTER] to select the setting.

Changing the Unit of Length to Be Displayed

Change the unit that is used for the display.

Procedure

1. Press [MENU] several times to display the following screen.



CONDITION ◀▶
▶

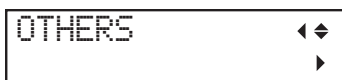
MEMO

When the material is loaded, press [MENU] several times to display the following screen.



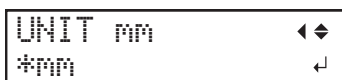
UNSETUP ◀▶
↵

2. Press [▼] several times to display the following screen.



OTHERS ◀▶
▶

3. Press [▶], [▼], then [▶].



UNIT mm ◀▶
*mm ↵

4. Select the unit with [▲][▼].
It is possible to select millimeters or inches.

- 5.** Press [ENTER] to select the setting.
- 6.** Press [MENU] to return to the original screen.

Adjusting the Brightness of the Display

Procedure

1. Press [MENU] several times to display the following screen.

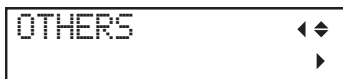


MEMO

When the material is loaded, press [MENU] several times to display the following screen.



2. Press [▼] several times to display the following screen.



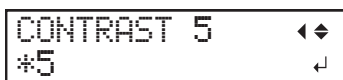
3. Press [▶].

4. Press [▼] several times to display the following screen.



5. Press [▶].

6. Press [▲][▼] to select the screen brightness.



- Setting range: 1 to 5

7. Press [ENTER] to select the setting.

8. Press [MENU] to return to the original screen.

Restoring Default Settings

This procedure returns all settings to their factory default values.

MEMO

This operation restores all settings to their default settings, deleting all changes made to that point. Keep a record of any necessary information such as cutting conditions. However, the language setting remains unchanged.

Procedure

1. Press [MENU] several times to display the following screen.

CONDITION ◀▶
▶

MEMO

When the material is loaded, press [MENU] several times to display the following screen.

UNSETUP ◀▶
↵

2. Press [▼] several times to display the following screen.

OTHERS ◀▶
▶

3. Press [▶].

4. Press [▼] several times to display the following screen.

FACTORYDEFAULT ◀▶
*PRESET ▶

5. Press [▶] to display the following screen.

FACTORYDEFAULT ◀
*PRESET ↵

6. Press [ENTER] to execute.

The screen shown below appears again.

SELECT SHEET ◀▶
ROLL ↵

Maintenance

Cleaning and Consumable Parts

- Cleaning..... 115
 - Cleaning the Machine..... 115
 - Cleaning the Blade Holder Cap..... 117
- Consumable Parts..... 118
 - Blade 118
 - Blade holder 120
 - Blade Protector 120

Cleaning

Cleaning is important in order to ensure clean cutting. Clean the machine periodically.

⚠ WARNING

Be sure to perform operations as specified by the instructions, and never touch any area not specified in the instructions.

Sudden movement of the machine may cause injury or burns.

⚠ WARNING

Never use a solvent such as gasoline, alcohol, or thinner to perform cleaning.

Doing so may cause a fire.

Cleaning the Machine

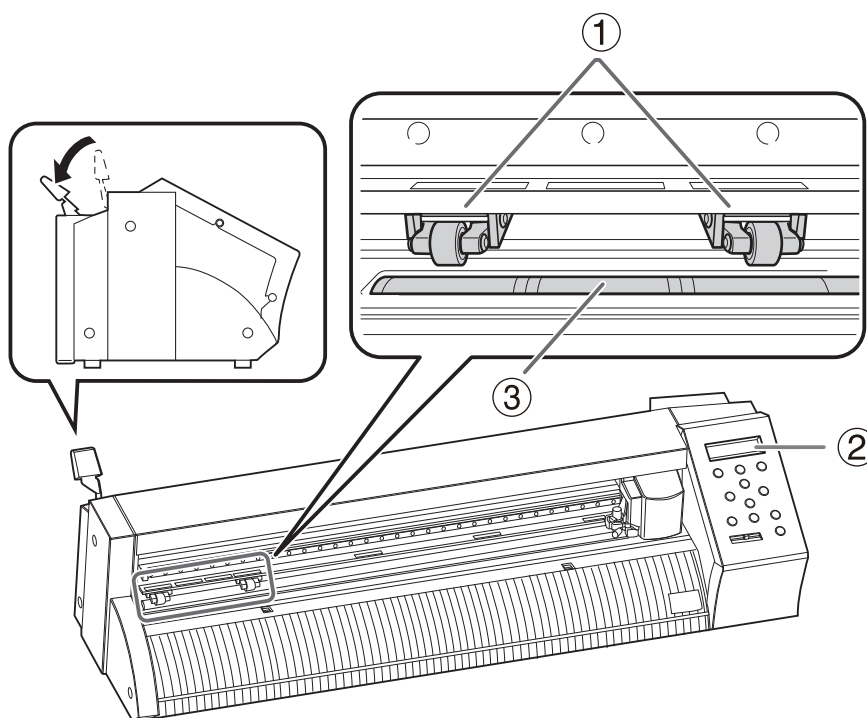
Wipe off dirt and grime with a cloth moistened with water and then wrung out firmly.

IMPORTANT

Switch off the power before cleaning.

IMPORTANT

Lower the loading lever before cleaning.



①	Pinch roller	Hold the roller with your hand so that it does not turn, and wipe off grime and material scraps from the rubber part of the pinch roller. Then, wipe clean with a dry cloth.
---	--------------	--

Cleaning

②	Display	Wipe it with a dry cloth.
⑤	Grit roller	After raising all of the pinch rollers, turn the grit roller while using a brush. Use *1 to remove dust from the surface.

*1 Do not use a metal brush.

Cleaning the Blade Holder Cap

When a blade holder has been used for a long time, the bearing that supports the blade deteriorates, making it more difficult for the blade to turn. If you continue to use the blade holder like this, the machine will not cut cleanly because the tip of the blade will not turn smoothly.

If any of the following conditions appears, clean the blade holder cap.

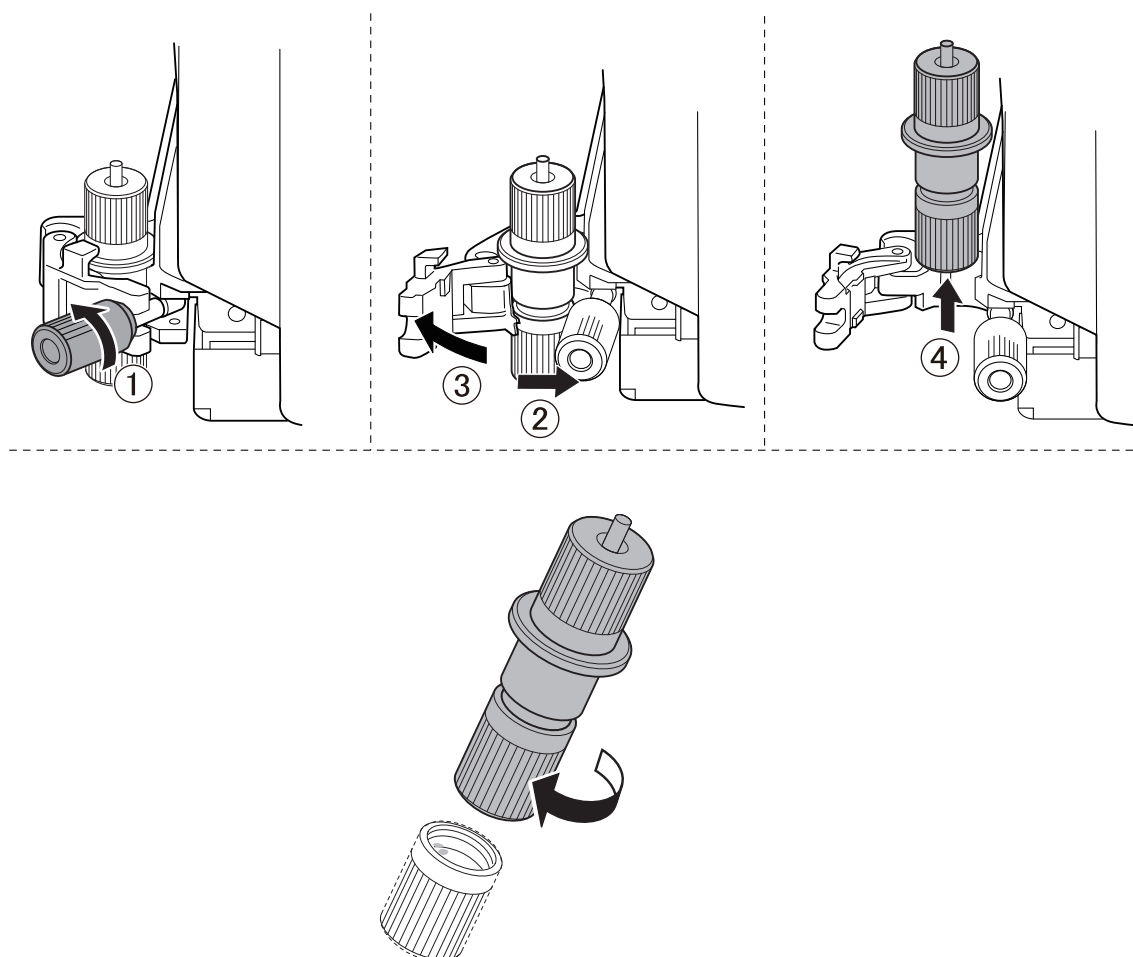
- Corners and curves are not clean
- Cut lines are perforated

⚠ CAUTION

Never touch the tip of the knife.

Doing so may result in injury. The cutting performance of the blade will also be impaired.

Loosen the cap to remove it, and remove any buildup of material or dust inside the cap.



MEMO

If cleaning does not improve the conditions, replace the blade holder with a new one.

RELATED LINKS

- [P. 118 Replacing the Blade](#)

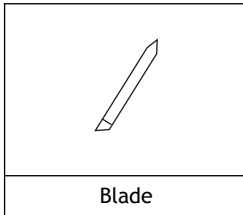
Consumable Parts

To purchase consumable items, visit the DGSHAPE Corporation website or contact your authorized DGSHAPE Corporation dealer.

RELATED LINKS

- <https://www.rolanddg.com/>

Blade



In the cases below, the blade has reached the end of its service life. Replace it with a new item.

- The tip of the blade is broken.
- Uncut areas remain even though the blade force has been increased to 50 to 60 gf.
- Cuts are not as clean as they used to be
- The material starts to curl up from the carrier paper when cutting detailed areas or corners

The tip of a blade that has been used for a long time or has been used to cut hard material may wear away. A blade that has worn in this manner will no longer cut cleanly, so replace it with a new one.

RELATED LINKS

- [P. 118 Replacing the Blade](#)

Replacing the Blade

If the blade becomes dull, replace it with the included replacement blade.

⚠ WARNING

Be sure to perform operations as specified by the instructions, and never touch any area not specified in the instructions.

Sudden movement of the machine may cause injury or burns.

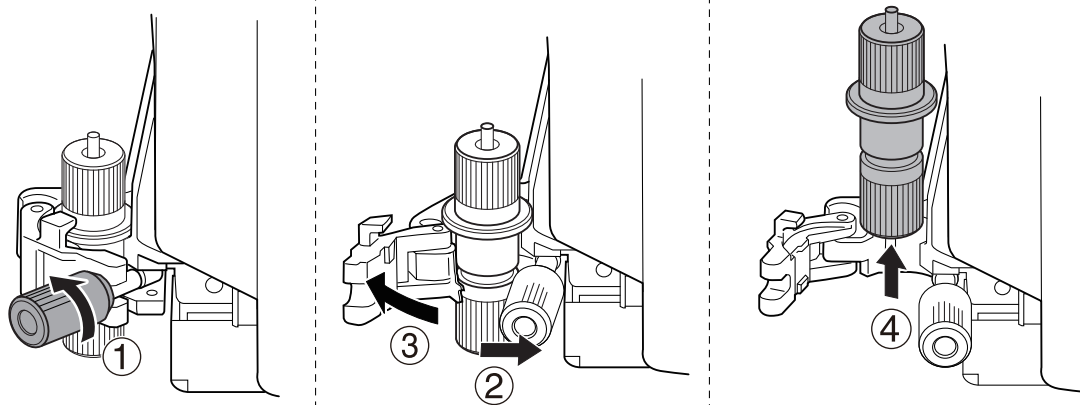
⚠ CAUTION

Never touch the tip of the knife.

Doing so may result in injury. The cutting performance of the blade will also be impaired.

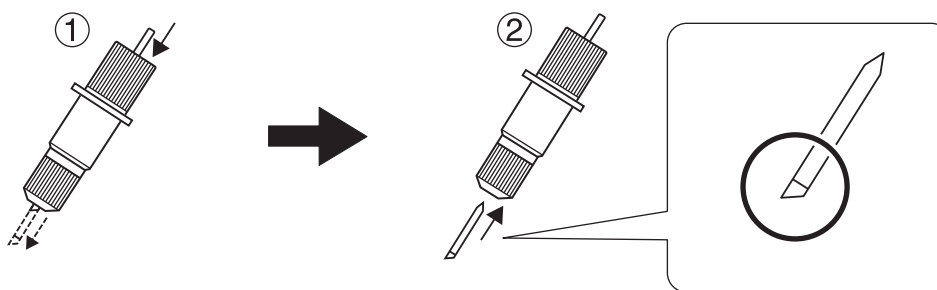
Procedure

1. Remove any material loaded in the machine.
2. Detach the blade holder.

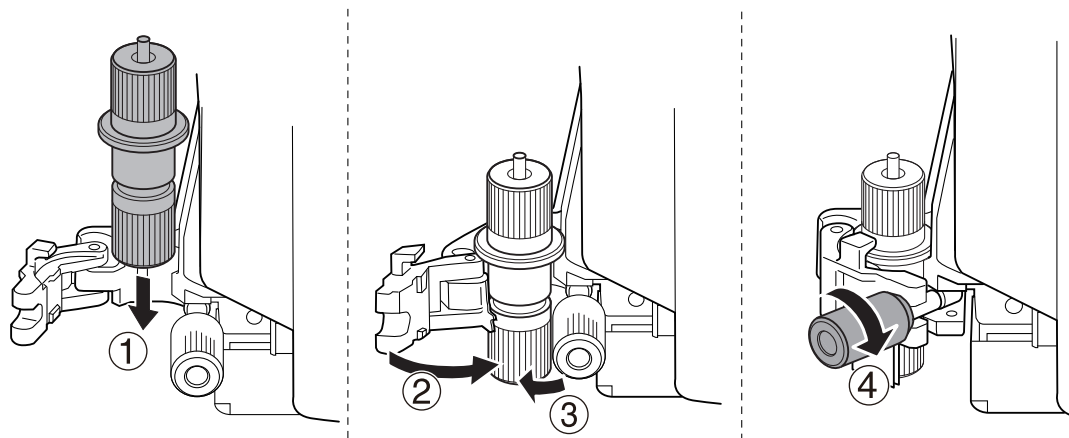


3. Replacing the blade.

- (1) Press the pin to push out the old blade.
- (2) Insert a new blade.



4. Install the blade holder into the cutting carriage.

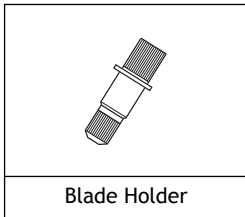


5. Ensure that the screw is tightened.

RELATED LINKS

- [P. 68 Removing the Material](#)
- [P. 75 Adjusting the Cutting-in Amount](#)

Blade holder

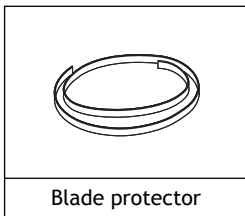


If cutting is performed with the blade tip adjusted, the cap of the blade holder and the material rub against each other, gradually wearing the tip of the cap. Severe wear prevents correct adjustment of the blade tip, hindering clean cutting. When this happens, replace the blade holder with a new one.

RELATED LINKS

- [P. 117 Cleaning the Blade Holder Cap](#)

Blade Protector



If cutting is performed when the amount of blade extension or the blade force is not adjusted appropriately, the tip of the blade may pierce the material's carrier paper and scratch the blade protector. If cutting is performed when the blade protector is scratched, any cuts made may not be clean.

In the cases below, replace the blade protector.

- The surface of the blade protector is deformed due to scratching or similar damage.
- It has deteriorated to the point that it is falling apart

RELATED LINKS

- <https://www.rolanddg.com/>

Troubleshooting Methods

Cutting Problems

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Printing and Cutting Are Misaligned

RELATED LINKS

- [P. 93 Adjusting the Cutting Position](#)

Is a thick material being used?

When using thick material, set "QUALITY" to "HEAVY".

RELATED LINKS

- [P. 78 Setting the Cutting Speed](#)

Is the machine set to feed forward some amount of material before cutting?

When using roll material or flat material longer than 1.6 m (63.00 in.), if cutting is performed without the material length required for the cutting data being fed forward, the material may slip or operation may stop due to a motor error.

Set the machine so that the necessary amount of material is fed forward before cutting.

RELATED LINKS

- [P. 37 Check Material Feeding](#)

Uncut Areas Remain or Cut Edges Are Not Clean

Are the blade and blade holder securely installed?

Make sure the screws are tightened securely so that they do not come loose during cutting.

RELATED LINKS

- [P. 118 Replacing the Blade](#)

Is the tip of the blade broken?

If it is, replace the blade with a new one.

RELATED LINKS

- [P. 118 Replacing the Blade](#)

Is there any buildup of dust or material adhesive on the tip of the blade?

Remove and clean the blade.

RELATED LINKS

- [P. 118 Replacing the Blade](#)

Is there any buildup of pieces of material or dust inside the blade holder?

Take off the tip of the blade holder and remove any pieces of material or dust inside.

RELATED LINKS

- [P. 117 Cleaning the Blade Holder Cap](#)

Is a thick material being used?

When using thick material, set "QUALITY" to "HEAVY".

RELATED LINKS

- [P. 78 Setting the Cutting Speed](#)

Are the blade force and cutting speed appropriate?

Carry out cutting tests and adjust the settings until cutting can be performed adequately.

RELATED LINKS

- [P. 76 Setting the Blade Force](#)
- [P. 84 Setting the Speed of the Blade During Cutting](#)
- [P. 42 Perform Test Cutting](#)

Is the blade tip offset appropriate?

If the offset setting is not correct for the blade tip, corners may be rounded or have horns.
Set an appropriate value for the blade tip offset.

RELATED LINKS

- [P. 79 Setting the Blade Tip Offset Amount](#)

Is the machine set to feed forward some amount of material before cutting?

When using roll material or flat material longer than 1.6 m (63.00 in.), if cutting is performed without the material length required for the cutting data being fed forward, the material may slip or operation may stop due to a motor error.

Set the machine so that the necessary amount of material is fed forward before cutting.

RELATED LINKS

- [P. 37 Check Material Feeding](#)

Is "SMOOTHING" set to "OFF"?

To cut curves cleanly, set "SMOOTHING" to "ON".

RELATED LINKS

- [P. 85 Smoothly Cutting Arcs and Other Curves \(Smoothing\)](#)

Is the blade protector damaged or deformed?

If the blade protector is damaged, the material may not be cut correctly even if the machine's settings and the installation of the blade and blade holder are all correct. If this occurs, contact your authorized Roland DG Corporation dealer.

RELATED LINKS

- [P. 120 Blade Protector](#)

The Machine Cuts the Carrier Paper

Are the blade tip adjustment and blade force appropriate for the material being cut?

Perform a cutting test and adjust the blade tip and blade force appropriately.

RELATED LINKS

- [P. 74 General Guide Regarding Cutting Conditions](#)
- [P. 42 Perform Test Cutting](#)
- [P. 75 Adjusting the Cutting-in Amount](#)

The Machine Cuts the Same Area Twice

Is the setting for [Number of Cuts] correct?

If [Number of Cuts] is set to a value of 2 or higher in the [Cut Controls] window of Designer, multiple cuts are performed.

Set [Number of Cuts] to 1.

If [Number of Cuts] is set to On in the VersaWorks Cut Controls window and the count is set, this count is added to the number of cuts.

Set this item to Off or set [OVERLAP] to [OFF] at the machine.

RELATED LINKS

- [P. 64 Performing Cutting](#)

Is the machine's [OVERLAP] setting a number from 1 to 10?

Set the machine's "OVERLAP" setting to "OFF".

RELATED LINKS

- [P. 86 Cutting in the Same Position Repetitively \(Overlap\)](#)

Are there overlapping lines?

The same data may have been copied, resulting in overlapping lines. Check the data.

Crop Marks Are Not Detected

When the machine cannot read crop marks, it displays the following error message and pauses operation.

- "SET TO <TOOL MODE>"
- "LENGTH NG"
- "WIDTH NG"
- "ANGLE TOO BIG"

If this happens, press any key on the operation panel. Remove the material, check the following items, and then reload the material.

Is the material loaded correctly?

Make sure that the material is loaded and set up correctly.

RELATED LINKS

- [P. 24 Setting Up Material](#)

Are you using material that is not white or is glossy?

Crop marks cannot be detected if decorations or colors are on the material. Crop marks also cannot be detected on glossy material even if it is white.

Prepare a white, matte (minimally glossy) material and redo the process from the printing step.

RELATED LINKS

- [P. 14 Conditions for Usable Materials](#)

Are you using a transparent material?

Crop marks cannot be detected on transparent material. Change the material you are using.

RELATED LINKS

- [P. 14 Conditions for Usable Materials](#)

Does the material have creases or wrinkles?

Crop marks may not be read if the material has creases or wrinkles.

Stretch the creases or wrinkles out and load the material again. If the crop marks still fail to be read, prepare new material without creases or wrinkles and redo the operation from printing the data.

Are the crop marks blurred or are they in a color other than black?

Set the color of crop marks to black, specify 100% printing density on your printer, and print the data again.

RELATED LINKS

- [P. 15 Crop Marks](#)

Are the Size and Shape of Crop Marks Correct?

The machine can only detect crop marks in the prescribed shape.
Make the crop marks as perfect circles of 12.5 mm (0.49 in.) in diameter.

Are the crop marks at the correct positions?

Place the crop marks at the correct positions.

RELATED LINKS

- [P. 161 Margins and the Distance between Crop Marks](#)

Is the "ROTATE" menu set to "90deg"?

When using crop marks, be sure to set the "ROTATE" menu to "0deg". Crop marks cannot be read if set to "90deg".

RELATED LINKS

- [P. 80 Set the Orientation of Cutting Coordinates](#)

Is Direct Sunlight or High Intensity Indoor Light Hitting the Machine?

If direct sunlight or indoor light hits the cutting carriage sensor, crop marks may not be detected.
Move the machine to a location where it is not exposed to direct sunlight or indoor lighting.

Is the material loaded and set up straight and securely? Are the printing results crooked?

Crop marks cannot be detected in the following cases: Ensure that the material is loaded or printed with straight crop marks.

- The left and right crop marks are slanted by 5 degrees or more with respect to the moving direction of the cutting carriage.
- The crop marks are offset by 20 mm in the material-feed direction.

RELATED LINKS

- [P. 59 Load the printed material](#)

Is the printing expanded or reduced?

If the size is expanded or reduced during printing, the crop marks cannot be read during cutting.
Print the data by specifying 100% for the magnification.

The Material Slips Away from the Pinch Rollers during Cutting

Is the loading lever lowered?

If it is, the material is not secured in place. Check that the pinch rollers are within the edges of the material, and raise the loading lever.

Is the material loaded in parallel with the guide lines?

Use material with left and right edges that are parallel, and align the left edge of the material so that it lies parallel to the guide lines.

RELATED LINKS

- [P. 24 Loading Position of Material](#)

Is the material making contact with some obstacle during cutting?

Make sure that the left and right edges of the material do not make contact with the inner surfaces of the machine during cutting. Such contact not only damages the material, but also hinders normal material feed and causes the material to slip out of position.

Has cutting been performed without checking the material feed? (roll material)

If you start cutting without checking the material feed, correct cutting results may not be obtained. In the worst case, it may cause an error, malfunction, or damage the material.

RELATED LINKS

- [P. 37 Check Material Feeding](#)

Are the pinch rollers used to secure both edges of the material?

If the pinch rollers are not placed within the range of the grit rollers, the material is not secured, which prevents it from being fed properly.

Reload the material.

RELATED LINKS

- [P. 24 Loading Position of Material](#)

Machine Problems

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The Machine Doesn't Run

Are the cables connected correctly?

Check that the power cord, USB cable, and Ethernet cable are connected correctly.

When a USB cable and an Ethernet cable are connected at the same time, the machine sometimes does not operate. Connect only one of these cables.

Is the power switched off?

Turn on the machine power.

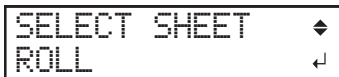
RELATED LINKS

- [P. 17 Turning the Power On](#)

Has the Material Been Set Up?

While the screen shown below is displayed, cutting is not available even if data is sent.

Select the loaded material, and then press [ENTER] to complete the setup.



RELATED LINKS

- [P. 24 Setting Up Material](#)

Are the software application settings incorrect?

Select the appropriate driver for the machine. For the selection procedure, refer to the manual for the application software.

The Power Cannot Be Switched Off

Have you held down the power button for 1 second or longer?

Press the power button for 1 second or longer to turn off the power. If the power still does not turn off, disconnect the AC adapter from the machine.

Unable to Set Up Cut Material with "PIECE"

Is the fed material 1.6 m (63.00 in.) or longer?

If flat material of 1.6 m (63.00 in.) or longer is set up using "PIECE", the machine recognizes it as a roll.

RELATED LINKS

- [P. 14 Types of Materials](#)

Connecting More Than One Machine to One Computer (Windows)

Connecting via a USB Cable

You can connect up to five GS2-24 units to a single computer. When connecting multiple GS2-24 units via USB connection, you must change the USB number of each machine so that the output destinations can be distinguished. The machine's default setting is "A". When connecting two or more machines, the second machine and every machine thereafter must be configured with a setting other than "A" so that the machine can distinguish the output destination of the data.

Perform Steps 1 to 3 to set up a connection. The same procedure can be used to connect a third or subsequent unit.

Step 1: Change the USB Number of the Machine

IMPORTANT

Do not connect the machine to the computer using the USB cable yet. Doing so may interfere with correctly applying the settings.

Procedure

1. Turn off the power of the machine.
2. Press [TEST] and the power button at the same time.
The screen shown below appears.

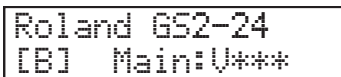


```
USB NUMBER [A]
*A
```

3. Press [▲] and [▼] to select a setting other than "A".
It is possible to select a value from "B" to "E". In this example, "B" is selected.

4. Press [ENTER].

5. Turn the power off and then on again.
The screen shown below appears. Check that the letter you set in step 3 is displayed.



```
Roland GS2-24
[B] Main:U***
```

Step 2: Change the Computer's Printer Settings

If you change the USB number, the machine will be recognized as a different machine by the computer, and the printer driver will be added. Use the procedure in this section to link the name of an added driver to a USB number, making it easier to specify this driver name as the output destination.

Procedure

1. Connect the machine to the computer using the USB cable.

The driver is installed.

2. Display the list of registered drivers.

An example method for displaying the list of drivers is given below, but the operation method varies depending on your version of Windows. Use an appropriate method to display the list of drivers.

- Open Control Panel.
- Open [Devices and Printers].
- Open [Printers & scanners].

3. Change the name of the added driver.

There is a duplicate of the GS2-24 driver in the list of drivers. The same as when a file is duplicated, "(1)" or "(1 copy)" is added to the end of the name of the duplicate driver. The name of the added driver is [Roland DG GS2-24 (1)], [Roland DG GS2-24 (1 copy)], or something similar, which allows you to identify the duplicate driver.

(1) Right-click the driver whose name you want to change, and then click [Printer Properties].

(2) Change the name of the driver to [Roland DG GS2-24 (B)].

It is a good idea to use a name that is associated with the USB number.

(3) Click [OK].

Step 3: Registering the Machine in VersaWorks

If you are using Windows, refer to [VersaWorks Installation and License Authentication in GS2-24 Installation and Initial Settings](#) and register the machine in VersaWorks.

If you are using a Mac, refer to [VersaWorks Installation and License Authentication in GS2-24 Installation and Initial Settings](#) and register the machine in VersaWorks.

Connecting via Ethernet

You can connect up to five GS2-24 units to a single computer. When connecting multiple machines to one computer using Ethernet, install a driver as you add each machine.

Perform Steps 1 to 3 to set up a connection. The same procedure can be used to connect a third or subsequent unit.

Step 1: Installing the Driver of the Machine to Be Added

Procedure

1. Connect the machine to be added to the same LAN as the computer using an Ethernet cable.
2. Install the driver on the computer.
Refer to [Ethernet Connection in GS2-24 Installation and Initial Settings](#) and install the driver on the computer.

Step 2: Change the Computer's Printer Settings

When you install a printer driver again, a duplicate of the printer driver is registered on the computer. Use the procedure in this section to change the name of the driver, making it easier to specify this driver name as the output destination.

Procedure

1. Display the list of registered drivers.

An example method for displaying the list of drivers is given below, but the operation method varies depending on your version of Windows. Use an appropriate method to display the list of drivers.

- Open Control Panel.
- Open [Devices and Printers].
- Open [Printers & scanners].

2. Change the name of the added driver.

There is a duplicate of the GS2-24 driver in the list of drivers. The same as when a file is duplicated, "(1)" or "(1 copy)" is added to the end of the name of the duplicate driver. The name of the added driver is **[Roland DG GS2-24 (1)]**, **[Roland DG GS2-24 (1 copy)]**, or something similar, which allows you to identify the duplicate driver.

(1) Right-click the driver whose name you want to change, and then click [Printer Properties].

(2) Change the name of the driver to **[Roland DG GS2-24 (B)]**.

Here, we have added "(B)" to the name as an example, but set the name to something that the machine can easily identify.

(3) Click [OK].

Step 3: Registering the Machine in VersaWorks

If you are using Windows, refer to [VersaWorks Installation and License Authentication in GS2-24 Installation and Initial Settings](#) and register the machine in VersaWorks.

If you are using a Mac, refer to [VersaWorks Installation and License Authentication in GS2-24 Installation and Initial Settings](#) and register the machine in VersaWorks.

Connecting More Than One Machine to One Computer (Mac)

MEMO

It is not possible to connect multiple machines to one computer via USB.
To connect multiple machines, change from USB to Ethernet for the connection between the computer and each machine.

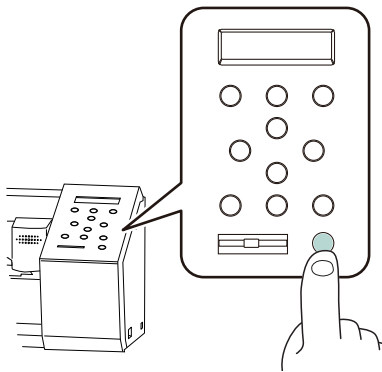
Connecting via Ethernet (Manually Set IP Address)

When connecting multiple machines to one computer, establish Ethernet connections between the computer and each machine.

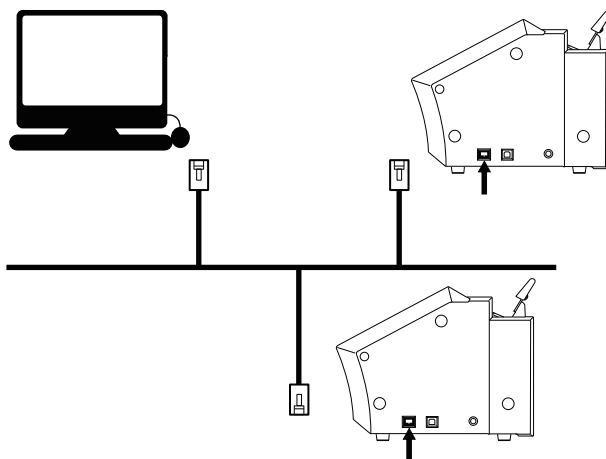
Step 1: Connect LAN Cables

Procedure

1. Start the computer.
2. Press the power button to start the machine to be connected.



3. Connect the machine and the computer with a LAN cable.



Step 2: Setting the IP Address of the Machine to Connect

Procedure

1. Determine the IP address of the machine.

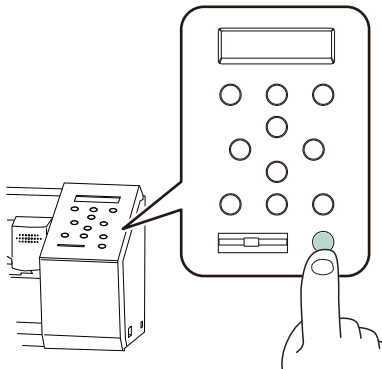
Check the IP address of the computer and the IP addresses of other machines to determine the IP address of the machine.

When the IP address of the computer is 192.168.0.xxx

- IP address of the machine: 192. 168. 0. yyy

Enter any number from 1 to 254 for [yyy]. Ensure that they are different from the numbers of other network equipment.

2. If the machine is off, press the power button to start the machine.



3. Press [MENU] twice to display the screen shown below.

```
CONDITION  ◀▶
             ▶
```

4. Press [▼] once to display the screen shown below.

```
SYSTEM INFO.  ◀▶
               ▶
```

5. Press [▶] once to display the screen shown below.

```
SYSTEM INFO.  ◀▶
MODEL          ▶
```

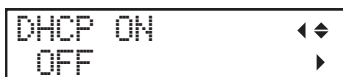
6. Press [▼] three times to display the screen shown below.

```
SYSTEM INFO.  ◀▶
INTERFACE     ▶
```

7. Press [▶] twice to display the screen shown below.

```
NETWORK       ◀▶
DHCP ON       ▶
```

8. Press [▶], then [▼] to set DHCP to OFF.



A screenshot of a menu with two options: "DHCP ON" and "DHCP OFF". A cursor, represented by a small diamond with arrows, is positioned to the right of "DHCP OFF".

9. Press [ENTER].

10. Press [▼] once to display the screen shown below.



A screenshot of a menu with two options: "NETWORK" and "IP ADDRESS". A cursor, represented by a small diamond with arrows, is positioned to the right of "IP ADDRESS".

11. Press [▶] twice.

a. Press [▲] or [▼] to enter the IP address of the machine that you determined in step 1.

Press [◀] or [▶] to move the cursor.

b. Press [ENTER].

12. Press [MENU] to return to the original screen.

13. Repeat Steps 1 to 12 to set the IP address of the second machine.

Step 3: Registering the Machine in VersaWorks

If you are using Windows, refer to [VersaWorks Installation and License Authentication in GS2-24 Installation and Initial Settings](#) and register the machine in VersaWorks.

If you are using a Mac, refer to [VersaWorks Installation and License Authentication in GS2-24 Installation and Initial Settings](#) and register the machine in VersaWorks.

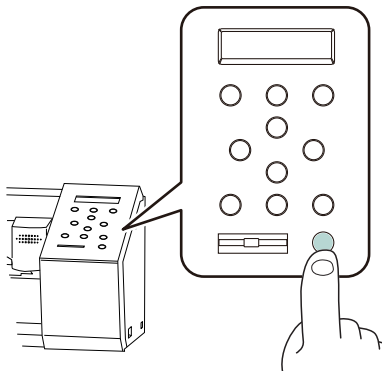
Connecting via Ethernet (Automatically Set IP Address)

When connecting multiple machines to one computer, establish Ethernet connections between the computer and each machine.

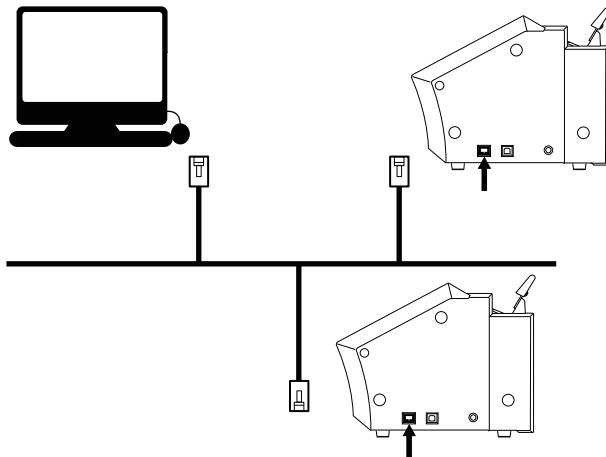
Step 1: Connect LAN Cables

Procedure

1. Start the computer.
2. Press the power button to start the machine to be connected.



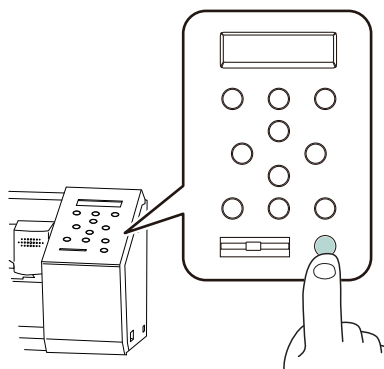
3. Connect the machine and the computer with a LAN cable.



Step 2: Checking the Settings of the Machine to Connect

Procedure

1. If the machine is off, press the power button to start the machine.



2. Press [MENU] twice to display the screen shown below.

```
CONDITION  ◀▶
             ▶
```

3. Press [▼] once to display the screen shown below.

```
SYSTEM INFO.  ◀▶
                ▶
```

4. Press [▶] once to display the screen shown below.

```
SYSTEM INFO.  ◀▶
MODEL          ▶
```

5. Press [▼] three times to display the screen shown below.

```
SYSTEM INFO.  ◀▶
INTERFACE     ▶
```

6. Press [▶] twice to display the screen shown below.

```
NETWORK       ◀▶
DHCP ON       ▶
```

If DHCP is set to OFF, press [▶], then [▼] to set DHCP to ON, and then press [ENTER].

7. Press [▼] once to display the screen shown below.

```
NETWORK       ◀▶
IP ADDRESS    ▶
```

8. Press [▶] once.

9. Make a note of the displayed IP address.

10. Press [MENU] to return to the original screen.
11. Repeat steps 1 to 10 to check the settings of the second machine.

Step 3: Registering the Machine in VersaWorks

If you are using Windows, refer to [VersaWorks Installation and License Authentication in GS2-24 Installation and Initial Settings](#) and register the machine in VersaWorks.

If you are using a Mac, refer to [VersaWorks Installation and License Authentication in GS2-24 Installation and Initial Settings](#) and register the machine in VersaWorks.

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Driver Installation Is Impossible

If you have canceled installation or if connecting the USB cable does not start the wizard, follow the procedure shown below to install the driver.

Re-installing the Driver (Windows 11)

Procedure

1. Delete the existing driver.
 - (1) Open Control Panel, and then open Devices and Printers.
 - (2) Open the [Printers & Scanners] window with a list of registered printers.
 - (3) Open the GS2-24 driver.
 - (4) Click [Remove].
2. Restart Windows.
3. Uninstall the driver according to the procedure below.
[P. 150 Uninstalling the Driver \(Windows 11\)](#)
4. Start the installation from the beginning according to the procedure below.
[GS2-24 Installation and Initial Settings Windows Version](#)

Re-install the Driver (Mac)

Procedure

1. Uninstall the driver according to the procedure below.
[Uninstalling the Driver \(Mac\)\(P. 151\)](#)
2. Delete the driver.
 - (1) Open the system settings, and then open the Printers & Scanners window with a list of printers.
 - (2) Click [GS2-24] from the list of registered printers.
 - (3) Click the printer deletion button.
A confirmation window appears. Click [Delete printer].
If [GS2-24] has disappeared from the list of registered printers, the deletion is complete.
3. Start the installation from the beginning according to the procedure below.
[GS2-24 Installation and Initial Settings For Macintosh Computers](#)

Uninstalling the Driver

To uninstall the driver, follow the procedure below.

Uninstalling the Driver (Windows 11)

Procedure

1. Switch off the machine, and disconnect the connector cable between the computer and the machine.
2. Log on to Windows as an administrator.
3. Delete the driver installer.
 - (1) Open Control Panel, and then open the [Programs and Features] window with a list of the installed programs.
 - (2) Select Roland DG GS2-24 DRIVER and click [Uninstall].
When the window checking that you will allow the change to the system appears, click [Allow] or [Yes].
Next, when the message checking that you want to delete the driver appears, click [Yes].
4. Delete the driver file.
 - (1) Open Explorer and open the folder specified as the driver installation location at the time of download.
 - (2) Double-click [SETUP64.EXE].
When the window checking that you will allow the operation to continue appears, click [Allow] or [Yes].
 - (3) Select [Uninstall], and then click [Start].
 - (4) If a window prompting you to restart the computer appears, click [Yes].
Uninstallation will be completed after the computer restarts.

Uninstalling the Driver (Mac)

Procedure

1. Log on to the Mac as the [Administrator].
2. Access the following URL.
<https://downloadcenter.rolanddg.com/GS2-24/#software>
3. Click [Roland DG GS2 Driver].
4. Download [Roland DG GS2-24 Driver Mac Installer / Updater [20**-**-**]].
Enter and send the necessary information to display the software download screen.
5. Double-click the downloaded [Roland DG GS2 Driver.dmg] file.
6. Double-click [RolandDG_GS2-24_Uninstaller.pkg].
Follow the instructions in the installation wizard to complete the uninstallation.
7. Delete the driver.
 - (1) Open the system settings, and then open the Printers & Scanners window with a list of printers.
 - (2) Click [GS2-24] from the list of registered printers.
 - (3) Click the printer deletion button.
A confirmation window appears. Click [Delete printer].
If [GS2-24] has disappeared from the list of registered printers, the deletion is complete.

Messages on the Operation Panel

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Error Messages

This section describes the error messages that may appear on the machine's display and how to take action to remedy the problem. If the action described here does not correct the problem or if an error message not described here appears, contact your authorized Roland DG Corporation dealer.

"WRONG COMMAND"

Data that the machine is not able to interpret was sent.

Press any key to clear the error message. Review the data sent from the computer, and then send the correct data.

"WRONG NO.S"

The number of parameters differs from the permissible number.

Press any key to clear the error message. Review the data sent from the computer, and then send the correct data.

"OUT OF RANGE"

The value of the specified parameter was outside the permissible range.

Press any key to clear the error message. Review the data sent from the computer, and then send the correct data.

"ORIGIN ERROR"

The machine is exposed to direct sunlight or strong indoor lighting and was not able to detect the origin immediately after the power was switched on.

Turn off the power, and move the machine to a location where it is not exposed to direct sunlight or intense light. Then, turn on the power.

"CROPMARK ERROR"

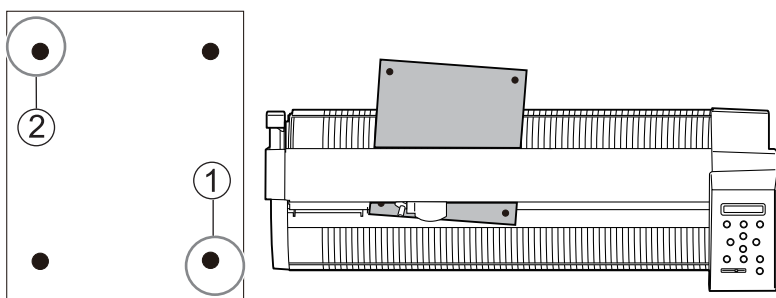
The shape or color of the crop marks, or the color or glossiness of the material is not suitable for the machine. The issue may also be due to mechanical failure.

The machine was not able to read the crop marks. Check the shape and color of the crop marks, and the color and glossiness of the material.

If the same error occurs even after you have reviewed the shape and color of the crop marks, and the color and glossiness of the material, contact your authorized Roland DG Corporation dealer.

"CROPMARK ERROR""ANGLE TOO BIG"

Crop mark 2 or 3 is slanted by 5 degrees or more.



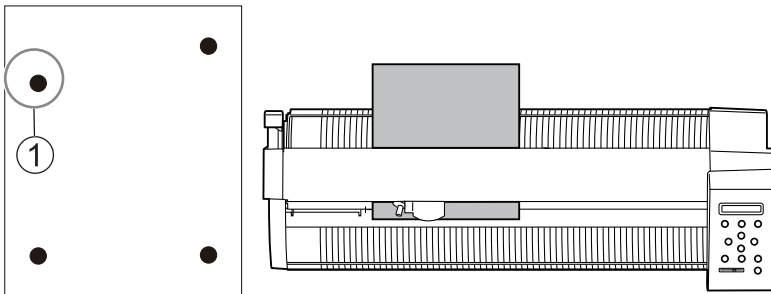
①: Crop mark 2

②: Crop mark 3

Press any key to clear the error message. Reload the material.

"CROPMARK ERROR""LENGTH NG"

Crop mark 3 is deviated by 20 mm (0.79 in.) or more in the material feed direction.

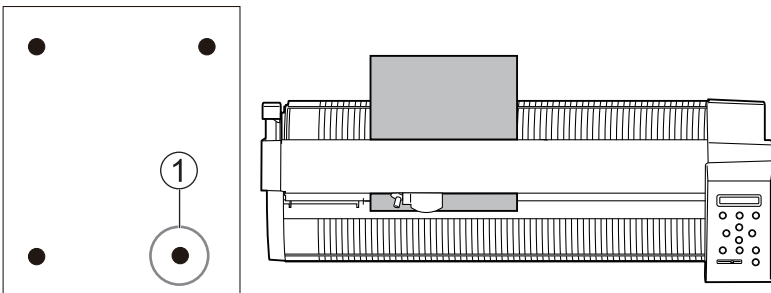


①: Crop mark 3

Press any key to clear the error message. Reload the material or change the position of crop mark 3.

"CROPMARK ERROR""WIDTH NG"

Crop mark 2 is deviated by 20 mm (0.79 in.) or more in the cutting carriage direction.



①: Crop mark 2

Press any key to clear the error message. Reload the material or change the position of crop mark 2.

"OUT OF CUT RANGE"

This message indicates that the crop marks or the origin are set outside the material.

Press any key to clear the error message. Check that the crop mark positions or the origin are not set outside the material, and redo the settings.

"SHEET UNLOADED"

An attempt was made to make the machine ready without loading material. The material was removed when the machine was ready to perform cutting. The material slipped out during cutting.

Press any key to cancel setup and clear the error message. Load the material correctly, and then make it ready for cutting (setup condition).

RELATED LINKS

- [P. 24 Loading Position of Material](#)

"SET TO <SENSOR MODE>"

Crop mark data was sent when the machine was in **Manual Mode**.

Press any key to clear the error message. Change the machine's settings to **Sensor Mode**, and then resend the data.

RELATED LINKS

- [P. 62 Configure the Setting to Perform Automatic Aligning](#)

"SET TO <TOOL MODE>"

Crop marks could not be read in **Sensor Mode**.

Press any key to clear the error message. Check the color and glossiness of the material.

RELATED LINKS

- [P. 15 Crop Marks](#)
- [P. 128 Crop Marks Are Not Detected](#)

"DATA OVERFLOW"

The amount of data stored in the machine is too large and "RELOT" cannot be executed.

Procedure

1. Delete the data stored in the machine.
2. Decrease the size of the data sent from the computer and resend it.
3. Carry out "RELOT".

RELATED LINKS

- [P. 96 Cutting the Same Data Repetitively](#)

"BAD POSITION"

Pinch rollers are at positions where the material cannot be pinched.

Press any key to cancel setup and clear the error message. Move the pinch rollers to the correct positions and reload the material.

MEMO

If the message appears even if the pinch rollers are moved to the correct positions, the machine may be exposed to direct sunlight or intense indoor lighting. Turn off the power, and then move the machine to a location where it is not exposed to direct sunlight or intense lighting.
After moving the machine, turn on the power.

RELATED LINKS

- [P. 26 Loading Flat Material](#)

- [P. 32 Loading Roll Material](#)

"MOTOR ERROR"

A heavy load was placed on the motor, and the operation stopped.

When the machine is overloaded in the following conditions, etc., the "MOTOR ERROR" appears.

- Cutting was performed with a thick material loaded
- The material was pulled off suddenly from the roll during cutting without being fed out beforehand
- Material was jammed

Turn off the power, lower the loading lever, and load the material again.

Cutting Roll Material

Pull out the length of material to be cut from the roll beforehand. Additionally, perform a test feed before cutting.

When doing so, set a value around 20 cm (7.87 in.) longer than the cut length in "AREA" in the display menu.

Cutting Thick Material

Set the quality setting to "HEAVY".

"EEPROM ERROR"/"SOLENOID ERROR"

Switch off the power and contact your authorized Roland DG Corporation dealer.

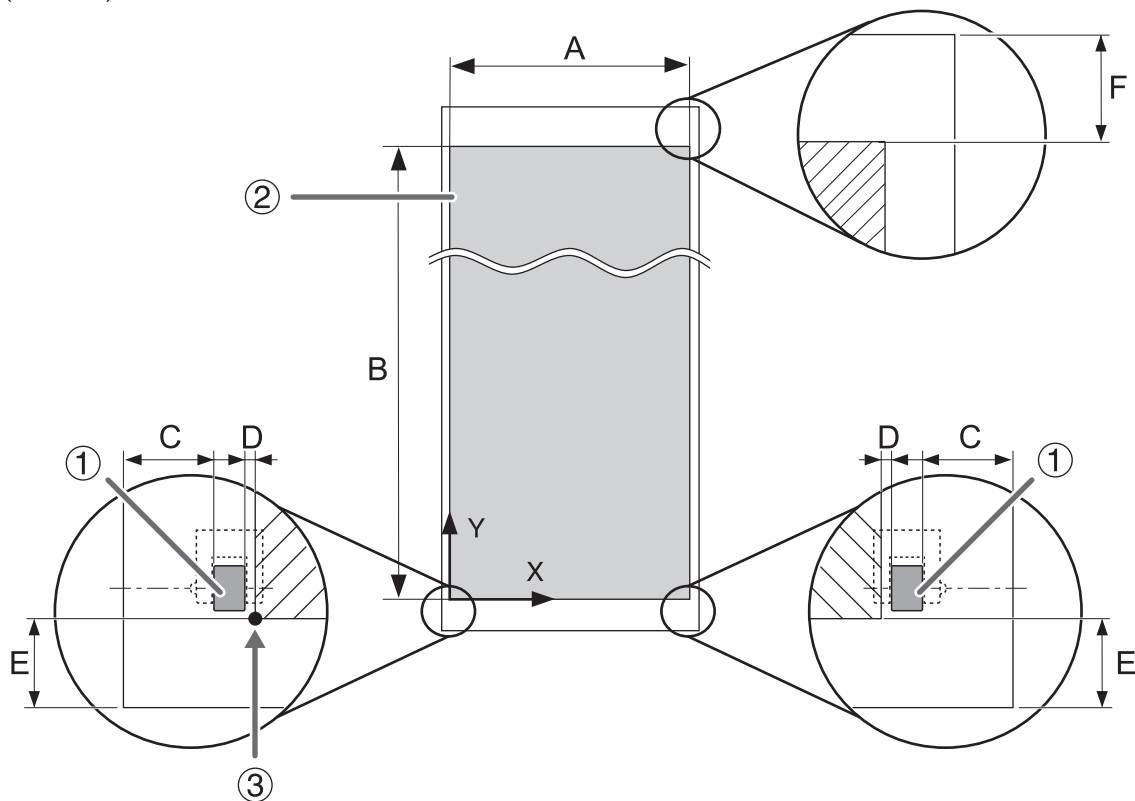
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Cutting area

The material's lateral cutting area (direction in which the cutting carriage moves) is determined by the positions of the pinch rollers. The cutting area spans between the two pinch rollers, minus approximately 1 mm (0.04 in.) on each side.



①	Pinch roller
②	Cutting area
③	Cutting coordinate origin
A	Maximum 584 mm (22.99 in.)
B	Type of specified material • "ROLL" / "EDGE" Max. 25,000 mm (984.25 in.) *¹ • "PIECE" Max.: Detected length *²
C	10 to 25 mm (0.40 to 0.98 in.)
D	Approx. 1 mm (0.04 in.)
E	15 mm
F	50 mm (1.97 in.) or more

*¹ The accuracy is guaranteed up to 1,600 mm (62.99 in.).

*² If the detected length is 1,600 mm (63.00 in.) or longer, the material is determined as "ROLL", and the cutting area length will be set to approximately 25,000 mm (984.25 in.). However, the display does not show the length.

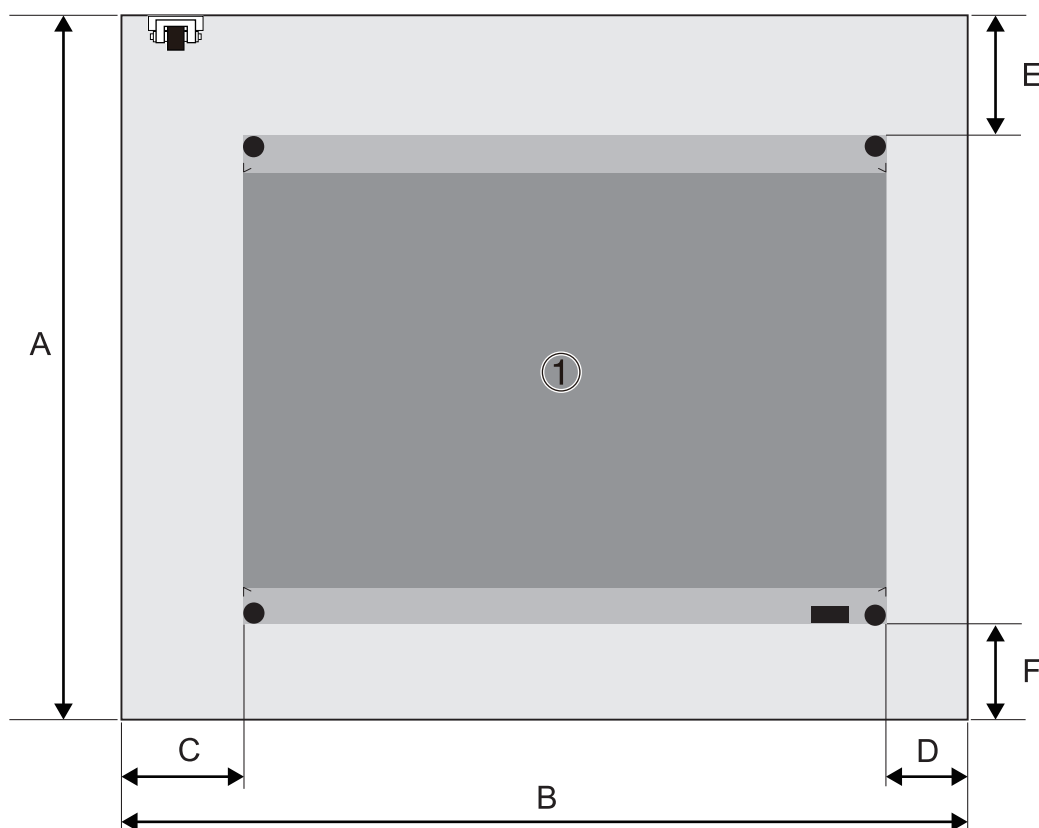
Margins and the Distance between Crop Marks

Set the margins and the distance between crop marks. Take into account the margin necessary for cutting the material and set the crop mark position.

Printing Area with Crop Marks (When Creating Cutting Data Using Designer)

MEMO

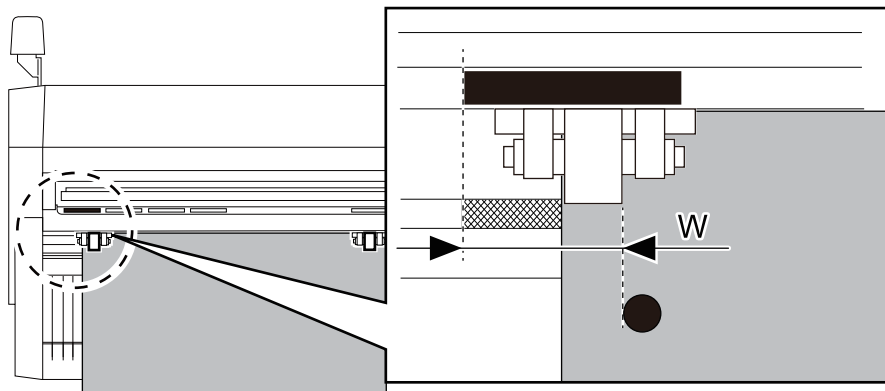
Ensure that the area where the crop marks are positioned is free of any illustrations or dirt other than the crop marks.



①	Printable range
A	500 mm (19.68 in.) or less
B	610 mm or less
C	10 to 60 mm (0.40 to 2.36 in.) *1
D	10 to 42.5 mm (0.40 to 1.67 in.)
E	Trailing margin after crop mark: 50 mm (1.97 in.) or more
F	Leading margin before crop mark: 20 mm (0.79 in.)

*1 Set the crop mark positions manually. Note the following points when using material in sizes other than A3, A4, or B4.

- When using a pinch roller within the leftmost grit pattern, make sure to leave at least 30 mm (1.19 in.) (W) from the left end of the grit pattern to the crop mark. If the cleared distance is less than 30 mm (1.19 in.), the crop mark cannot be read.



RELATED LINKS

- [P. 56 Setting Crop Marks](#)

Specifications

Drive system		Digital control servo motor
Cutting mechanism		Friction feed
Acceptable material size	Width	50 to 700 mm (1.97 to 27.55 in.)
	Length	Roll material: No restriction Flat material: 100 mm (3.94 in.) or more
Maximum cutting area		584 (W) × 25,000 (L) mm (22.99 [W] × 984.25 [L] in.)
Usable tools		• Roland CAMM-1 series blade (ZEC-U5032/U5022/U5025/U3017) • Flatbed blade (ZEC-U1715/U3050/U3075/U3100) • Car film dedicated blade (ZEC-U5010)
Cutting speed		10 to 850 mm/s (0.4 to 33.46 in./s) (all directions)
Blade force setting range		30 to 500 gf
Mechanical resolution		0.0125 mm/step
Software resolution		0.025 mm/step (0.98 mil/step)
Distance accuracy *1		Error of less than ±0.2% of distance traveled, or 0.1 mm (3.94 mil), whichever is greater
Repetition accuracy *1*2		0.1 mm (3.9 mil) or less
Alignment accuracy for printing and cutting when printed material is loaded *1 *3		1 mm (39.37 mil) or less for movement distance of 210 mm (8.26 in.) or less in material-feed direction and movement distance of 170 mm (6.69 in.) or less in width direction (Does not take influence of printer and material into account)
Connectivity		• Ethernet (10BASE-T/100BASE-TX, automatic switching) • USB (USB 2.0 FULL SPEED compliant)
Replot memory		2 MB
Command system		CAMM-GLIII
Power supply		Dedicated AC adapter Input: 100 to 240 VAC, 50/60 Hz Output: 24 VDC 2.7 A
Rated current		1.0 A
Power consumption		24 W
Acoustic noise level	During operation	70 dB (A) or less
	During standby	40 dB (A) or less
Outer dimensions		860 (W) × 319 (D) × 235 (H) mm (33.86 [W] × 12.56 [D] × 9.25 [H] in.)
Weight		13.5 kg (29.76 lb.)
Environment		• Temperature: 5 to 40°C (41 to 104°F) • Humidity: 20 to 80%RH (no condensation)
Included items		Power cord, AC adapter, blade, blade holder, roller base, USB cable, alignment tool, manuals

*1 According to material and cutting conditions as specified by Roland DG Corporation (using separately available stand PNS-24).

- *2
- Excluding expansion/contraction of the media
 - Provided that the media feed length is 1,600 mm (62.99 in.) or less

*3 According to measurement standards as specified by Roland DG Corporation.

- Software must be included Roland DG Corporation software.
- Assumes use of a laser or inkjet printer with a resolution of 720 dpi or greater.
- Excludes glossy and/or laminated material.
- Excludes effects of warped printing due to accuracy of printer or effects of expansion/contraction of material.
- May not be read correctly by the sensor depending on the printer ink (black) used.

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