

Plug-in Cutting / Coating Software

fine Cut/Coat 9 *for Illustrator*[®]

Windows[®] / Macintosh[®]

Cut / Coat Simply and Directly



Reference Guide

MIMAKI ENGINEERING CO., LTD.

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Foreword

Thank you very much for purchasing a product of MIMAKI.

FineCut/Coat, a plug-in software for Adobe®Illustrator®, offers simple operation and stable cutting or coating environment which has never been realized by other cutting or coating software.

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New Functions of FineCut/Coat9

Direct output from FineCut to a laser engraving machines (Trotec Speedy Series, Gravotech LS Series). (☞ P.4-17, P.4-23)

You can output the cutting data from FineCut to the Trotec Speedy Series or the Gravotech LS Series and then perform laser cutting. The compatible models are as follows. (Gravotech LS series only works on Windows)

- Trotec Speedy Series: laser engraving machines 100/ 300/ 360/ 400
- Gravotech LS Series: LS100IQ, LS100Ex, LS100Ex_Energy, LS900, LS900XP, LS900Energy, LS900Edge, LS1000XP, LS_Energy8

Automatic register mark detection using a camera with the laser engraving machine, Gravotech LS series.(☞ P.4-24)

With the Gravotech LS series, you can automatically detect register marks using a camera. (Gravotech LS series only works on Windows)

Supports digital coating machines (DCF-605PU).(☞ P.4-30)

Allows coating to be applied using a digital coating machine in accordance with the coating data configuration.

Supports the CFX series high-end flatbed cutting plotter.

Allows efficient cutting with tools mounted on up to four stations.

System Requirement

System and software

The following conditions are required to use FineCut/Coat9.

| Item | | Windows | Macintosh |
|---|--|--|---|
| Computer | | IBM PC or compatible mounting Pentium processor or compatible CPU | Macintosh equipped with an Intel CPU or Apple M1 chip |
| OS | | Microsoft® Windows® 10 Microsoft® Windows® 11 | macOS 10.15 to 15 |
| Monitor | | 1024 x 768 pixels, or higher resolution is required | |
| Software*1 | | Adobe®Illustrator®, 2022, 2023, 2024, 2025 | |
| Plotter | MIMAKI product | MIMAKI CG series (CG-45 or later), MIMAKI CF series, MIMAKI CF2 series, MIMAKI DC series, MIMAKI CF3 series, MIMAKI CFL-605RT, MIMAKI CF22-1225, MIMAKI CFX series, MIMAKI TPC, MIMAKI CJV30 series, MIMAKI CJV300/150 series, MIMAKI CJV300 Plus series, MIMAKI CJV330 series, MIMAKI CJV200 series, MIMAKI UCJV300/150 series, MIMAKI UCJV330 series | |
| | Others | Trotec Speedy Series (100/300/360/400) Gravotech LS Series: LS100IQ, LS100Ex, LS100Ex_Energy, LS900, LS900XP, LS900Energy, LS900Edge, LS1000XP, LS_Energy8 • This only works with Microsoft® Windows®. | Not available |
| Digital coating machine | MIMAKI product | DCF-605PU | |
| Online Information function | | As described in "OS" above | |
| Connection | MIMAKI product Cutting Plotter | Serial connection (crossing cable) or USB connection or LAN connection*3 | |
| | Others laser engraving machines | Trotec Speedy Series: USB connection (virtual COM port) • It is necessary to install virtual COM port driver. | Not available |
| | | Gravotech LS Series: USB connection • It is necessary to install the Gravotech L-Solution driver. • When performing register mark detection with the camera: A USB connection for the camera is required separately from the USB connection for data. Camera driver installation is required. • This only works with Microsoft® Windows®. | |
| MIMAKI product Digital coating machine | LAN connection*2 | | |
| Others | | Compliant with the operation environment of Adobe®Illustrator® used | |

*1. Windows Server is supported by Illustrator, but not by FineCut/Coat9.

*2. When using a LAN connection in a Macintosh environment, be sure to turn off the Wi-Fi setting.

Important!

- If MIMAKI plotters are used, a USB serial adapter is required for output from a USB port to a serial port. (USB-serial adapter (Option: OPT-SS036) is recommended)
Some USB-serial adapter may not operate normally because of a problem between the adapter and the operating system of the computer. Before using other manufacturer's adapter, contact the manufacturer for problems between the adapter and OS in use.

Important!

- If our company's software does not operate correctly in the operating environment listed, it may be due to the version of OS/Illustrator/browser, etc. If you are using an older version of OS/Illustrator/browser, etc., we recommend updating your environment to the latest version to use.

How to Read This Manual

Notations

Menu items and buttons displayed in each screen are enclosed in square brackets like [File] menu.

Symbols



- Indicates cautions or procedures you must perform.



- Describes useful information.



- Indicates a page of related contents for reference.

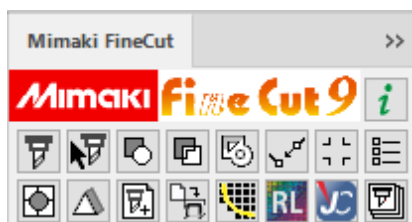
FineCut/Coat menu

FineCut/Coat tool menu is displayed as follows on Illustrator.

If “DCF-605PU (Digital coating machine)” is selected, [FineCoat] is displayed, and if anything else is selected, [FineCut] is displayed.

In this manual, it is called “FineCut menu” or “FineCoat menu”.

FineCut menu



FineCoat menu



DCF-605PU (digital coating machine)

If using the DCF-605PU (digital coating machine), read “FineCut” as “FineCoat”, “Cut” as “Coat”, and “Plotter” as “Digital coating machine” as necessary when reading these instructions.

CHAPTER 1

Preparation



This chapter describes how to set the plotter, install FineCut/Coat, and set the connection to the plotter.

Before using FineCutCoat, work in the order described in this chapter.

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| Issue a serial key. | 1-11 |

Setting of Plotter

Before using FineCut/Coat, set the plotter used as described below.

| Plotter | Item | Setting | |
|---|--|---|-----------|
| CG-EX Series | ORIGIN SELECT | LOW RIGHT | |
| CG-FX Series, CG-FXII Series, CG-FXII Plus Series, CG-75ML, CG-60SR, CG-SRII, CG-SRIII Series, CG-AR Series | ORIGIN SELECT | LOW RIGHT | |
| | Register Mark Setting | MARK DETECT | 1 Pt |
| | | DIST REVI | OFF |
| | | offset A | 0.0mm |
| | | offset B | 0.0mm |
| | | COPIES A (↑) | 1 (sheet) |
| | | COPIES B (←) | 1 (sheet) |
| | ROTATION | OFF | |
| PRIORITY | HOST | | |
| CJV30 Series, TPC, CJV300/CJV150 Series, CJV300 Plus series, CJV330 series, CJV200 series, UCJV300/150 Series UCJV330 Series • Set all for each tool. | Register Mark Setting | MARK DETECT | 1 Pt |
| | | OFFSET Y (←) | 0.0mm |
| | | OFFSET X (↑) | 0.0mm |
| | | COPIES Y (←) | 1 (sheet) |
| | | COPIES X (↑) | 1 (sheet) |
| CF Series | CMD SW | Enable | |
| | ORIGIN | LOW-LEFT | |
| | CIRCLE θ CORRECTION | Enter an angle of positive number | |
| CF2 Series, DC Series, CF3 Series, CFL-605RT, CF22-1225 | CMD SW | Enable | |
| | ORIGIN | LOW-LEFT (LOW-RIGHT for the CF3 and CFX) | |
| | CIRCLE θ CORRECTION | Enter an angle of positive number | |
| | EXPAND | OFF | |
| | MARK DETECT • Register mark detection cannot be set unless the expand is set to OFF. | 1 Pt | |
| | <MULTI-PASS>-CUT START | OFF | |

Installation of FineCut/Coat

Obtain FineCut/Coat9 by downloading it from the official MIMAKI website, then install it.

For Windows

1 Download the FineCut/Coat9 installer from the official MIMAKI website (<https://mimaki.com/>).

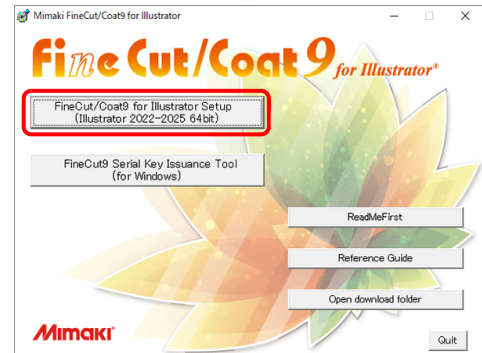
- The product to use varies depending on your operating system.
- Use [Select OS] to select your operating system, then download FineCut/Coat9 for your OS.

2 Double-click the downloaded file.

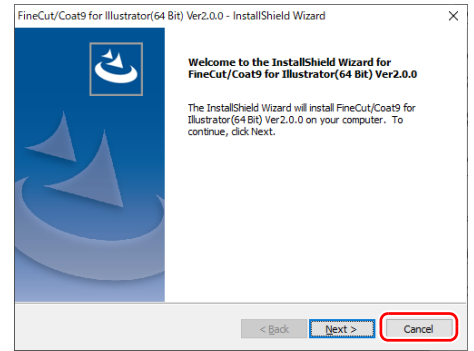
- The file is expanded and the FineCut/Coat9 installer menu is launched.
- If you close the FineCut/Coat9 installer menu.
 - (1) Open the "FineCut_Coat 9 ***" folder on the desktop.
 - (2) Double-click "CDMenu.exe" to launch it.

3 Click the "FineCut/Coat9 for Illustrator Setup" button that matches your Illustrator.

- Installation has begun.

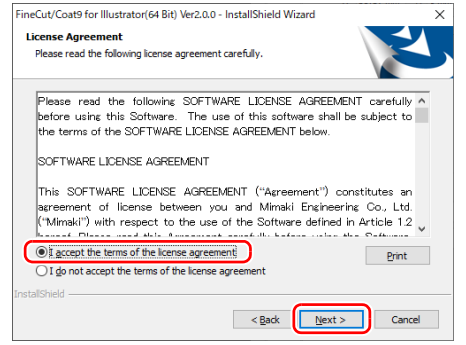


4 Click [Next].



5 Check the Software License Agreement.

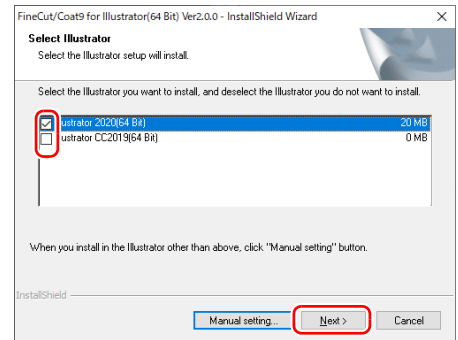
- Read through the agreement, click [I accept the terms in the license agreement] to consent the agreement, and click [Next].



6

Check the Illustrator to be installed on, and click [Next].

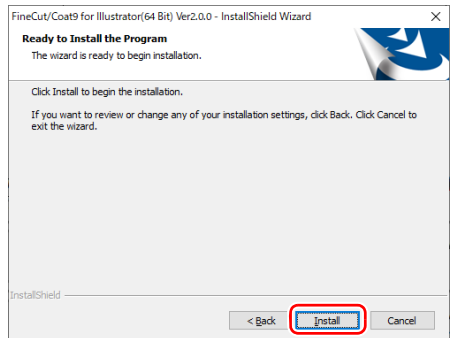
- Uncheck the Illustrator not to be installed on.
- If the Illustrator used does not appear on the list, click [Manual setting] and select a plug-in folder of the Illustrator.



7

Click [Install].

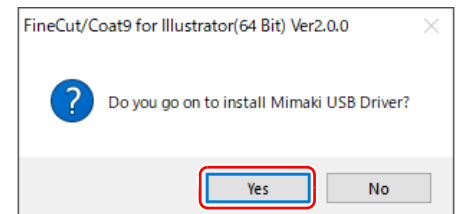
- Installation starts.



8

If USB driver does not exist, a screen shown on the right appears. Click [Yes].

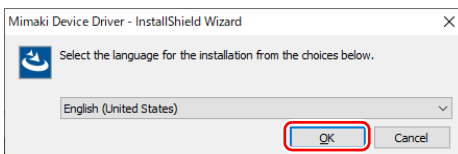
- If USB driver exists, go to the step 15.



9

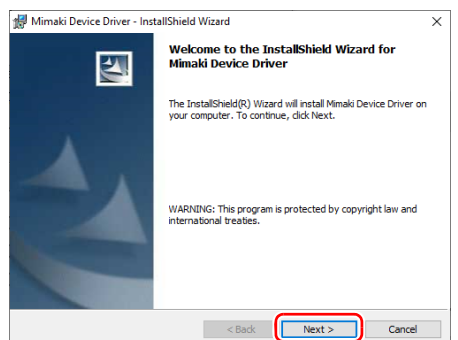
Click [Next].

- Select the language to be used for installation, and click [OK].



10

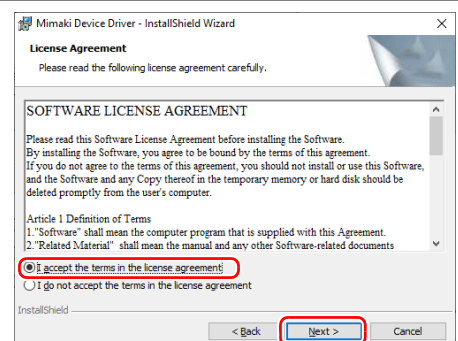
Click [Next].



11

Check the Software License Agreement.

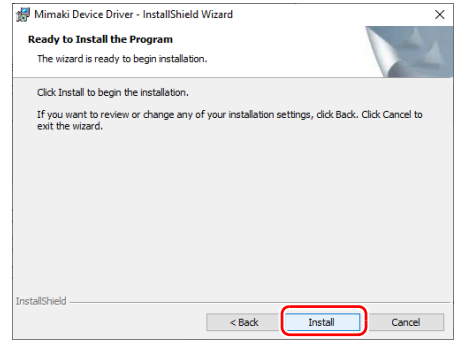
- Read through the agreement, click [I accept the terms in the license agreement] to consent the agreement, and click [Next].



12

Click [Install].

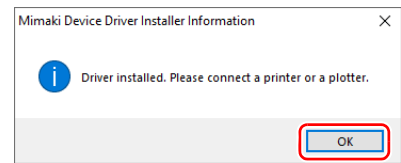
- Installation starts.



13

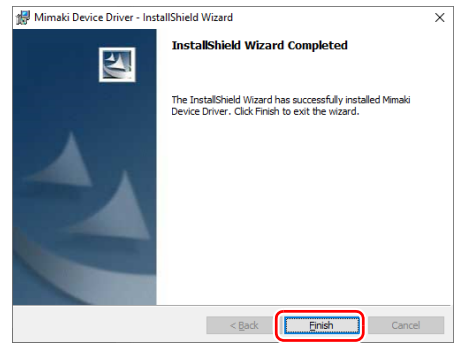
Click [OK].

- Connect the plotter.



14

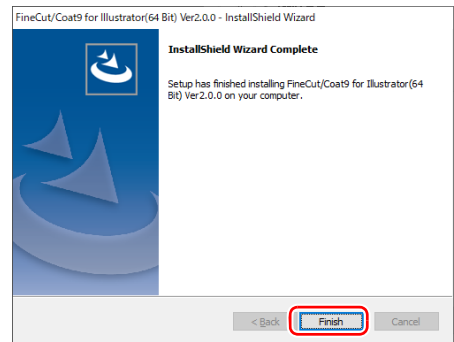
Click [Finish].



15

Click [Finish].

- Installation is complete.



Next, go to "Online Information". (🔗 P.1-8)

For Macintosh

1

Download the FineCut/Coat9 disk image from the official MIMAKI website (<https://mimaki.com/>).

- The product to use varies depending on your operating system.
- Use [Select OS] to select your operating system, then download FineCut/Coat9 for your OS.

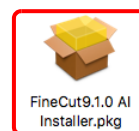
2

Mount the disk image.

3

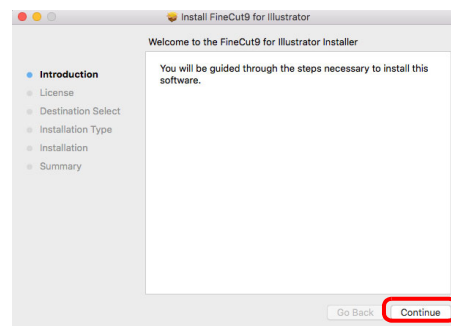
Double-click [FineCut_Coat9 AI Installer.pkg].

- Installation has begun.



4

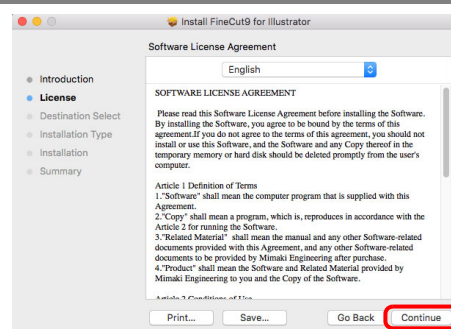
Click [Continue].



5

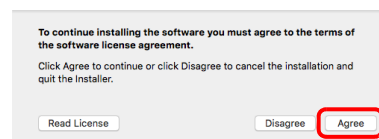
Check the software license agreement.

- Read through the agreement, and click [Continue] to consent the agreement.
- In case of macOS 10.14, when you click [Print...], the print preview and the print result may be blank. Follow the steps below to change [Appearance].
 - (1) Click [System Preferences] on the Apple menu.
 - (2) Click [General]
 - (3) Set [Appearance] to [Light].



6

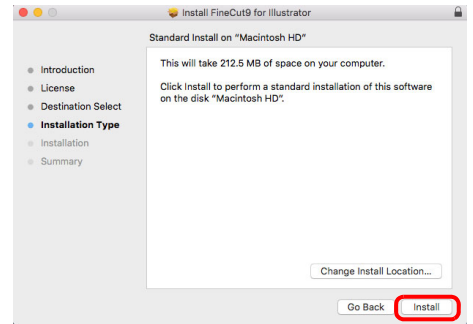
When you agree “Software license agreement”, click [Agree].



7

Click [Install].

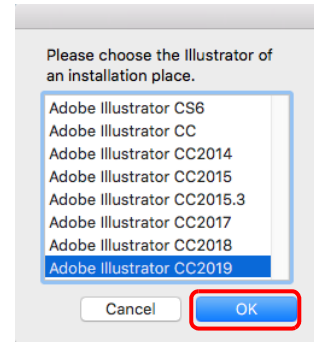
- When you change the install location, click [Change Install location...] and select the install location.



8

Select the Illustrator version to install and click [OK].

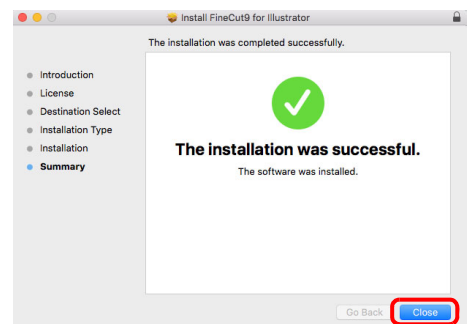
- Click the button to start installation.
- If [Adobe Illustrator could not be found. Please select Illustrator Plugin Folder.] is displayed, click [OK] and select the Illustrator plug-in folder you want to use.



9

Click [Close] .

- Installation is complete.

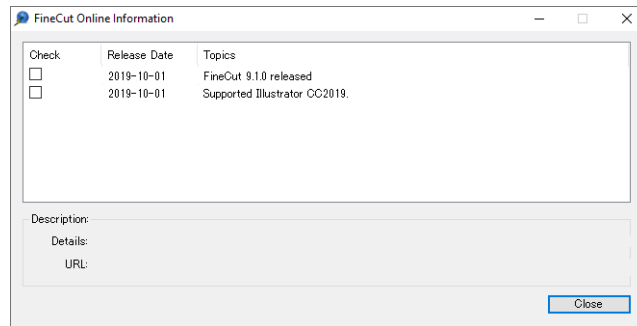


Next, go to "Online Information". (☞ P.1-8)

Online Information

If a new information about FineCut/Coat is found, the following screen appears when a new document is created first or a document is opened first.

Click necessary items and check the information. (☞ P.7-69 for details)



Next, go to "Connecting to the Plotter". (☞ P.1-9)

Connecting to the Plotter

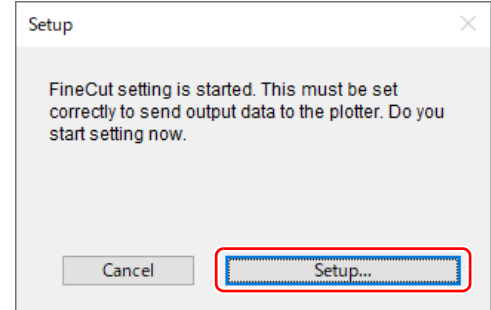
Before outputting data to the plotter, set the plotter on FineCut/Coat.

Important!

- Set the same values for Plotter and Communication as the settings on the plotter. If the entered values differ from the settings on the plotter, objects will not be cut normally.

1

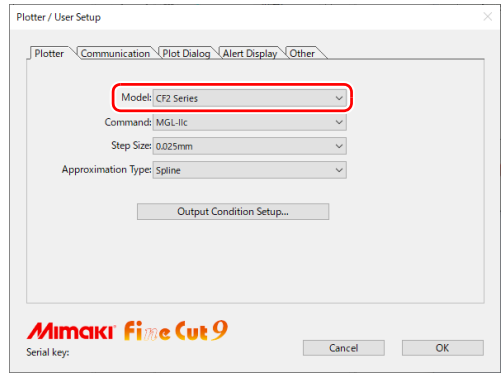
When creating or opening a document first after installing FineCut/Coat, the screen shown on the right appears. Click [Setup].



2

Select the plotter used.

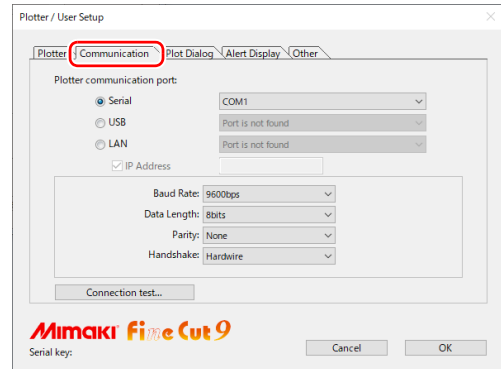
- Select the plotter used on [Model].
- Set the other items as needed. (☞ P.7-4)



3

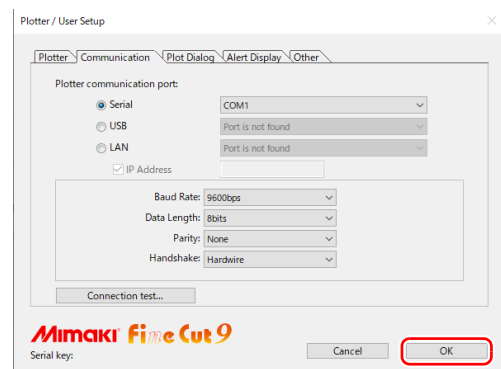
Click [Communication] tab and select the port of the plotter.

- After selecting the port, click [Connection test] to check the plotter is correctly connected. (☞ P.7-26 for details)



4

Click [OK] to save the setting.



Next, go to "Entering the Serial Key". (☞ P.1-10)

Entering the Serial Key

After FineCut/Coat is installed, a serial key input screen is displayed the first time you execute a FineCut/Coat function.

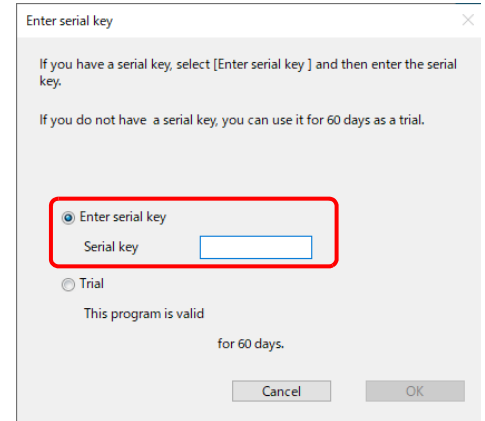
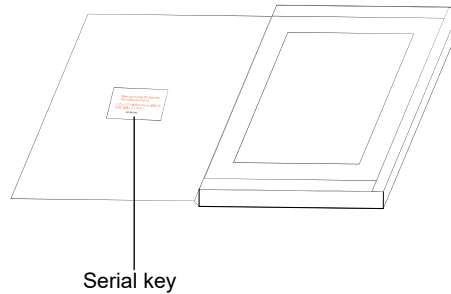
Important!

- The serial key is required again if the software is reinstalled or updated. Keep it in a safe place to avoid losing it.

1

Enter the serial key, which is on the FineCut/Coat9 package, then click [OK].

- The serial key is on an adhesive label on the inside of the box lid.



- When updating from a previous version of FineCut, enter the serial key issued by the FineCut9 Serial Key Issuance Tool. (☞ P.1-11 "Upgrading from a Previous Version")
- To use the software in trial mode, select [Trial] and click [OK]. The software can be used in trial mode for up to 60 days.

Preparation is now complete.

Upgrading from a Previous Version

1

Preparation

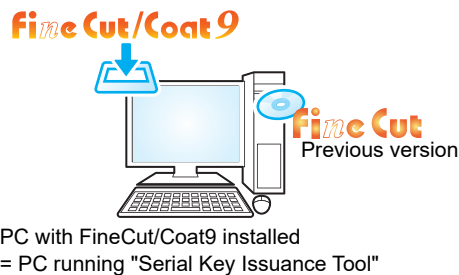
In order to upgrade FineCut old version (FineCut8), it is necessary to issue a serial key with "FineCut9 Serial Key Issue Tool".

You will need the following to upgrade from a previous version of FineCut.

| | Windows | Macintosh |
|---|--|---|
| Operating system running "Serial Key Issuance Tool" | Microsoft® Windows®7 Microsoft® Windows®8.1 Microsoft® Windows®10 Microsoft® Windows®11 | Mac OS X 10.7.5 to 10.11 macOS 10.12 to 11 |
| PC running "Serial Key Issuance Tool" | Computer capable of reading CD-ROMs • While running the serial key issuing tool, the CD-ROM drive is required for the process of reading the old version CD-ROM. • There is no problem with a computer other than the one on which FineCut/Coat9 is installed. | |
| FineCut9 Serial Key Issuance Tool | This utility issues a serial key for upgrading. • Located in the folder after extracting or mounting the file downloaded from the official MIMAKI website (https://mimaki.com/). | |
| Previous version of FineCut | Installation disc for a previous version of FineCut | |

Issue a serial key.

When a CD-ROM drive is installed in the computer to be upgraded to FineCut/Coat9

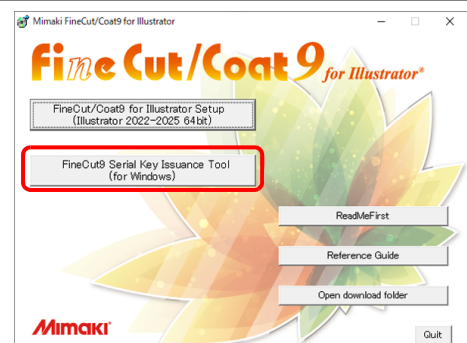


•When using a Windows

1

Click the "FineCut9 Serial Key Issuance Tool (for Windows)" button in the FineCut/Coat9 installer menu.

- If you close the FineCut/Coat9 installer menu.
 - (1) Open the "FineCut_Coat 9 ***" folder on the desktop
 - (2) Double-click "FineCut9 Serial Key Issuance Tool" to start it.



•When using a Macintosh

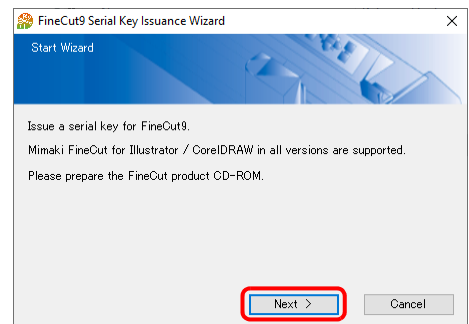
1 Open the folder after mounting the downloaded disk image.

2 Double-click "FineCut9 Serial Key Issuance Tool" to start it.

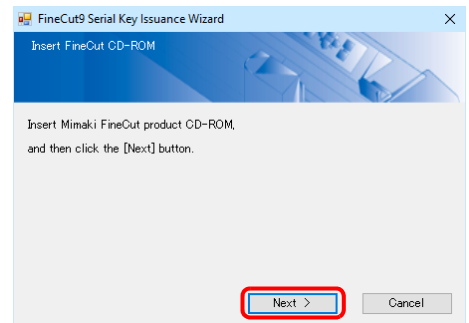


•The following steps are common to Windows and Macintosh.

1 On the first screen of the FineCut9 serial key issuance wizard, click [Next].

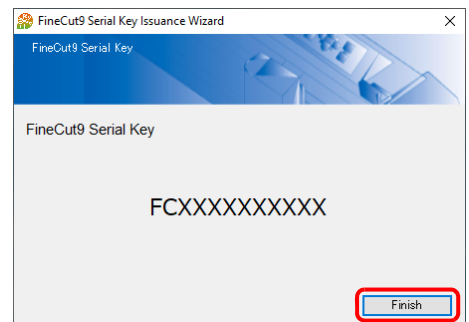


2 Insert the disc for a previous version of FineCut, then click [Next].



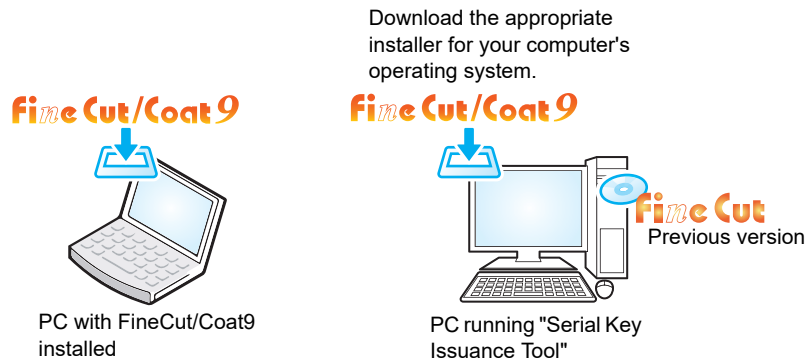
3 A serial key for FineCut/Coat9 is issued.

- No serial key is issued unless the disc is for a version of FineCut that is eligible for upgrading.
- Make a note of this serial key as it will be needed for reinstallation, version upgrades, etc.
- If you lose your note, you can reissue the serial key with the FineCut9 serial issuance tool.



4 Enter the issued serial key according to "Entering the Serial Key (P.1-10)".

When a CD-ROM drive is not installed in the PC to be upgraded to FineCut/Coat9



Perform all the following processing on a computer that can read CD-ROM (a computer that executes the "Serial Key Issuance Tool").

1 Prepare the operation system (Windows or Macintosh) of the computer that can read the CD-ROM.

2 Download the FineCut/Coat9 installer for your desired operating system from the official MIMAKI website (<https://mimaki.com/>).

3 If you are using a Windows, double-click the downloaded file.

- The file is expanded and the FineCut/Coat9 installer menu is launched.

If you are using a Macintosh, mount the disk image.

4 After that, refer to Step 1 (P.1-11) to Step 3 (P.1-12) of "Issue a serial key."

CHAPTER 2

Basic Cutting



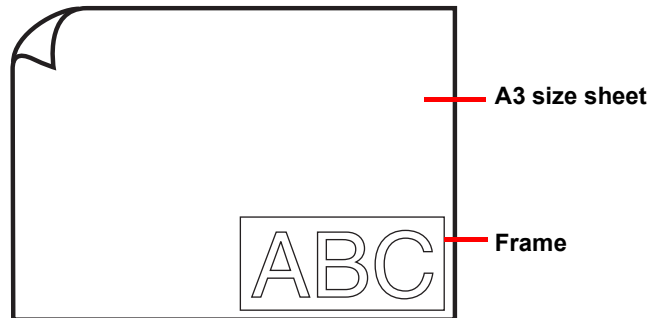
This section describes basic procedures of cutting.

| | |
|------------------------------------|-----|
| Basic Cutting | 2-2 |
| Basic Cutting | 2-2 |
| Fill and Stroke of an Object | 2-5 |

Basic Cutting

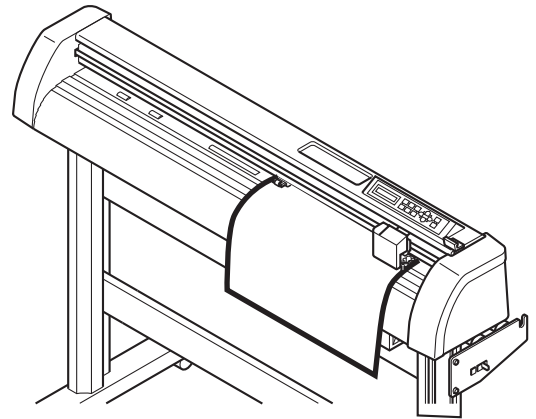
Basic Cutting

The following steps show how to cut ABC in the lower right of A3 size sheet, and how to cut a frame away from surroundings of ABC by 5mm, using MIMAKI CG series.



1

Load a A3 size sheet into the plotter so that it is wider than it is tall.



- For more information regarding sheet loading or the plotter operation, refer to the Operation Manual supplied with the main unit.

2

Set the plotter to REMOTE mode.

Important!

- FineCut cannot load the sheet length set on the plotter in LOCAL mode.

3

Start Illustrator and create a new document.

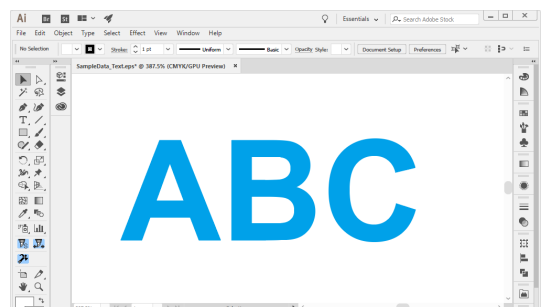
- You do not need to set A3 for the paper size.



- If the following screens appear, see "CHAPTER 1 Preparation".
"Online Information", "Input Serial Key", "Plotter / User Setup"

4

Enter "ABC" with the lettering tool .



5

Click [Plot] button in the FineCut menu.

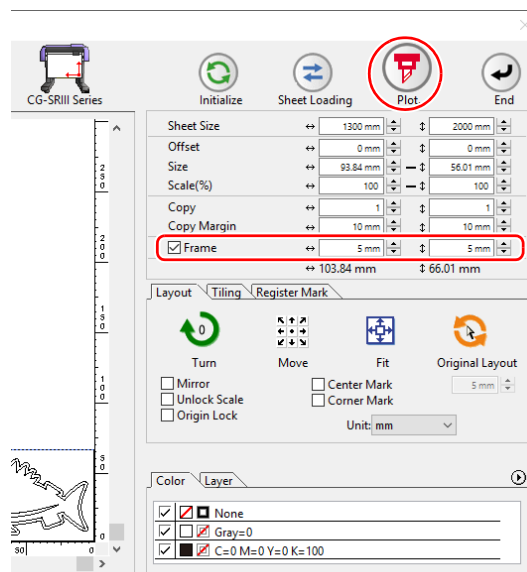


- “FineCut menu” is automatically displayed. If “FineCut menu” is not displayed, select [Mimaki FineCut] from the [Window] menu in the Illustrator.






6

Set a frame and click  (Plot button).

- Set as follows to cut a rectangle frame away from surroundings of the object by 5mm.
 - (1) Put a check on [Frame].
 - (2) Enter 5mm long, and 5mm wide.




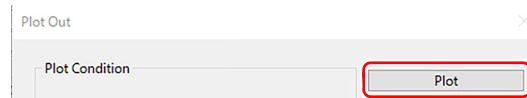
Important!

- If  mark appears on the left of  (Sheet Loading button), the sheet size is not loaded. In this case, click  (Plotter/User Setup button) on the bottom left of the screen to check the connection with the plotter. If correctly set,  mark will disappear.
- If you are using the Trotec Speedy series, you can not use  the (Sheet Loading) function and [Frame] setting function.
- When using the base sheet table and cutting base sheet with the CG-AR series, [Sheet Loading] reads in the cutting base sheet size. Be sure to set the origin for the sheet on the CG-AR series before using [Sheet Loading].

7

Set plot condition, and click [Plot].

- For more information, refer to ( P.7-46).



Important!

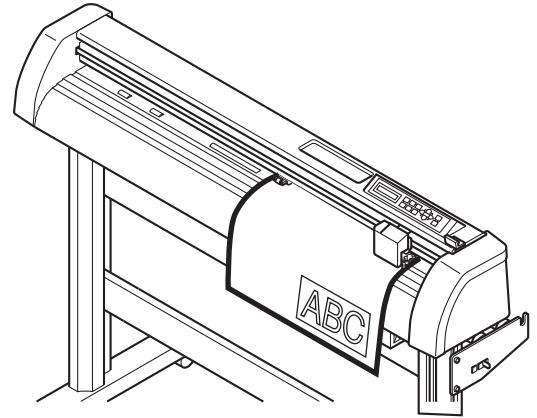
- Match the conditions to the media on the plotter. If the setting is unmatched, the object will not be cut normally.

8

The object is cut.

The object is cut on the bottom right, which is the sheet origin of the sheet.

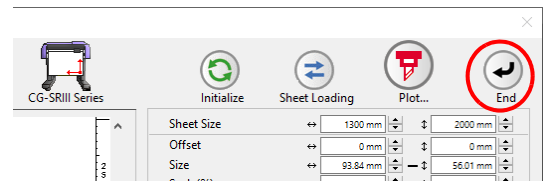
- The origin is in the bottom left for the MIMAKI CF, CF2, or DC series, or the CFL-605RT or CF22-1225.
- The origin is in the top left for the Trotec Speedy series and the Gravotech LS series.



9

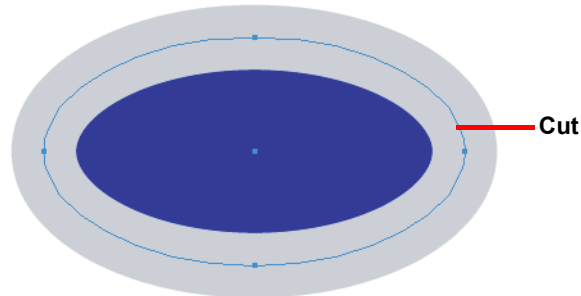
After cutting, click (End button).

- "Plot" screen is closed.

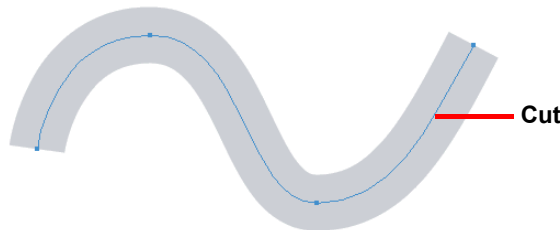


Fill and Stroke of an Object

In the figure below, the fill of the ellipse is set and stroke are made thicker. Not the outline of stroke, but the outline of fill (middle of the line) is cut.



If an object is not filled with a color, the stroke path is cut. The stroke path is cut, regardless of the thickness. Check the path when selecting the object or in the Artwork mode (Outline mode) of Illustrator.



Path is...

Path is a created line with the drawing tool of Illustrator.

The outline of a graphic object also consists of a path. The outline of a straight line or a rectangle created by Illustrator is also a typical example of path.



- To cut an object with the stroke weight recognized or to cut with stroke and fill separated, see the following page. (☞ P.4-2 "Recognizing Stroke Weight and Overlap")

CHAPTER 3

Creating Register Marks



This section describes how to cut frames of the printed image with register marks function to make seals, stickers, and sign-panels.

| | |
|------------------------------------|------|
| Work Flow..... | 3-2 |
| Making a Frame (Cutting Line)..... | 3-4 |
| Making Register Marks..... | 3-6 |
| Cutting an Object..... | 3-27 |

Work Flow

Important!

- Fit the communication setting of FineCut/Coat to the setting of the plotter connected. If the FineCut/Coat settings differ from the settings of the plotter, the object will not be output normally. (☞ P.7-26)

1 Make an object.

Make an object for printing on Illustrator.

2 Make a frame (cutting line). (☞ P.3-4)

Make a frame (cutting line) fitting to the object on FineCut/Coat.

3 Make register marks. (☞ P.3-6)

Make register marks on FineCut/Coat. Various kinds of register marks can be made depending on the plotters used.

4 Cut the object. (☞ P.3-27)

Set the printed media on the plotter, and cut it. You can cut various media depending on the use.

For cutting, the following functions can be used depending on the plotters used.

| Model | Function | Reference page |
|--|--|----------------|
| CG-EX series | Detect register marks, and cutting | P.3-27 |
| CG-FX, CG-FXII, CG-FXII Plus, CG-75ML, CG-60SR, CG-100SRII, CG-SRIII, CG-AR, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series | Cutting one image continuously | P.3-28 |
| | Cutting multiple images continuously (CG-75ML only) | P.3-32 |
| | Cutting an outline and a base sheet cutline at a time (except CG-FX, CG-FXII series, CG-FXII Plus) | P.3-35 |
| CF2, DC, CF3 series | Detect register marks, and cutting | P.3-37 |
| | Cutting with Mark Separation | P.3-40 |
| | Cutting from the reverse side | P.3-42 |
| CFL-605RT | Detect register marks, and cutting | P.3-45 |
| | Cutting with Mark Separation | P.3-48 |
| | Cutting from the reverse side | P.3-50 |
| CF22-1225 | Detect register marks, and cutting | P.3-61 |
| | Cutting with Mark Separation | P.3-63 |
| | Cutting from the reverse side | P.3-65 |
| CFX series (excluding free register marks) | Detect register marks, and cutting | P.3-67 |
| | Cutting with Mark Separation | P.3-40 |
| | Cutting from the reverse side | P.3-70 |
| CFX series (free register marks) | Detect register marks, and cutting | P.3-74 |
| CFX series (teaching) | Teaching cut | P.3-76 |
| CFX series (round register marks) | Detect register marks, and cutting | P.3-81 |
| Trotec Speedy Series | Detect register marks, and cutting | P.3-84 |
| Gravotech LS series | Detect register marks, and cutting | P.3-84 |
| DCF-605PU (Digital coating machine) | Detect register marks, and coating | P.3-84 |

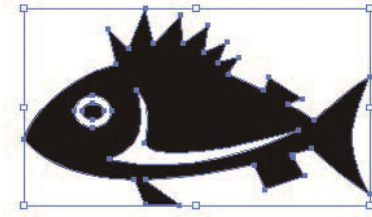
Important!

- register marks created with FineCut/Coat9 Ver2.4 or later cannot be recognized with Ver2.3 or earlier.
If you want to recognize register marks with FineCut/Coat9 Ver2.3 or earlier, please create them with Ver2.3 or earlier. (☞ P.8-7)

Making a Frame (Cutting Line)

Specify offset to make cutting line automatically.

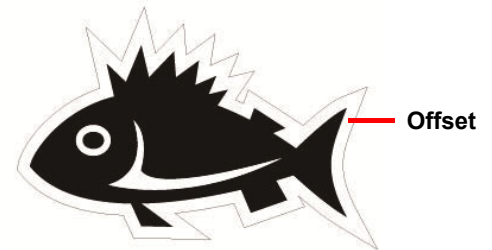
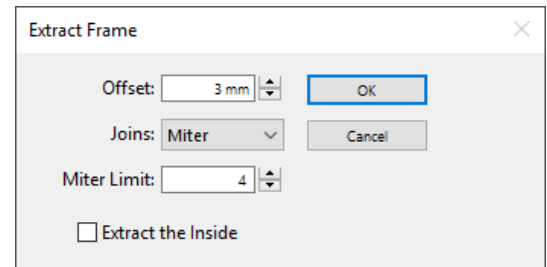
1 Select an object to attach a frame.

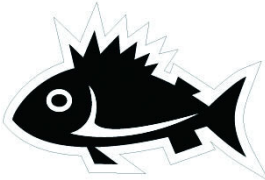
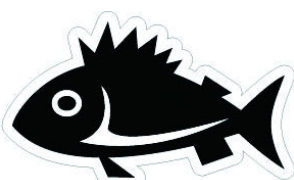
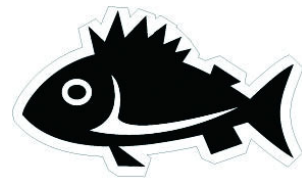


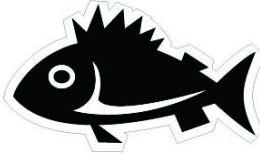
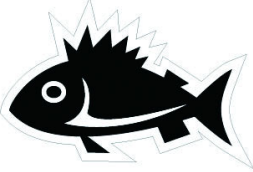


2 Click [Frame Extraction] button in the FineCut menu.



3 Set a path for the frame.



| Item | Description |
|---|--|
| Offset | Set the distance from the object to the frame. For bleed, enter a negative value. |
| Joins | Set the shape of frame corners. <ul style="list-style-type: none"> • If the frame shape is not natural, change the Joins to improve it. Generally, the more acute corner and the larger offset, the less accuracy. |
| Miter | Round |
|  |  |
| | Bevel |
| |  |

| Item | Description |
|----------------------------------|---|
| <p>Miter Limit</p> | <p>Set the ratio up to the two line ends crossed position. (Effective only for the Miter shape.) A larger value makes the corner more acute.</p> <p style="text-align: center;">Example: 1mm 10mm</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |
| <p>Extract the inside</p> | <p>When this is activated, cut lines will be created so as to take out any hollow portions that are present inside the objects selected.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>When [Extract the inside] is activated: Cut lines will also be created in the hollow portions.</p> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>When [Extract the inside] is deactivated: A cut line will be created around the object's periphery only.</p> </div> </div> |

4

Click [OK].

- The frame is extracted, and a path is created in [FC Frame Layer].



- Every time executing [Frame Extraction], a new layer is created as "FC Frame Layer 1", "FC Frame Layer 2". Use them when setting print or cutting condition for each layer. (☞ P.5-14)
- The data in this layer is set as non-printed, since it is used as cutting data. To print this data, enable "Print" on Illustrator "Layer Options".

Making Register Marks

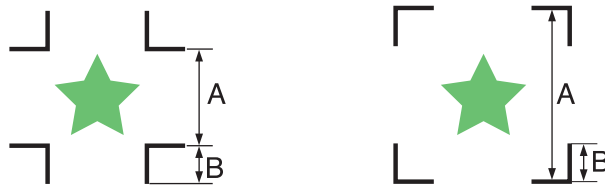
Register Marks

The size (B) of a register mark suited for the distance (A) between the marks is as shown below. If the mark size (B) is too small relative to the distance (A), the marks may not be detected correctly. Be sure to prepare the register marks with an appropriate size.

Important!

- Specifications such as the maximum size including the register marks, the spacing between the register marks when using continuous register marks, and areas where it is prohibited to place shapes may vary depending on the plotter model. Refer to the Operation Manual for your plotter.

●CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series



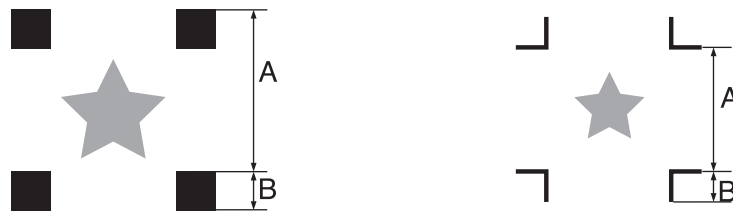
| | | | | | |
|---|----------|----------|-----------|-----------|-----------|
| A | 200 max. | 500 max. | 1000 max. | 2000 max. | 2001 min. |
| B | 4 min. | 8 min. | 15 min. | 25 min. | 35 to 40 |

(mm)

Important!

- For CG-SR III series and CG-AR series, make the register mark size (B) more than ten times the line width the register mark.

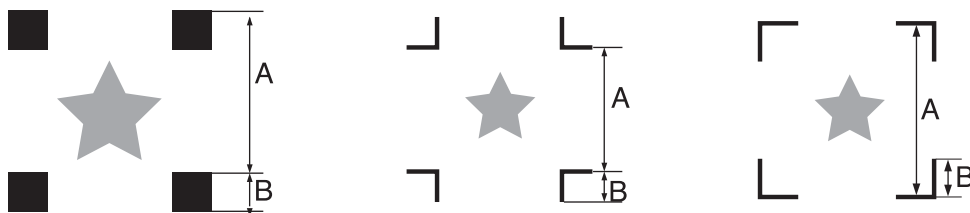
●CF2, DC, CF3 series



| | | | | | |
|---|----------|----------|-----------|-----------|-----------|
| A | 200 max. | 500 max. | 1000 max. | 1500 max. | 1501 min. |
| B | 5 | 10 | 15 | 20 | 30 |

(mm)

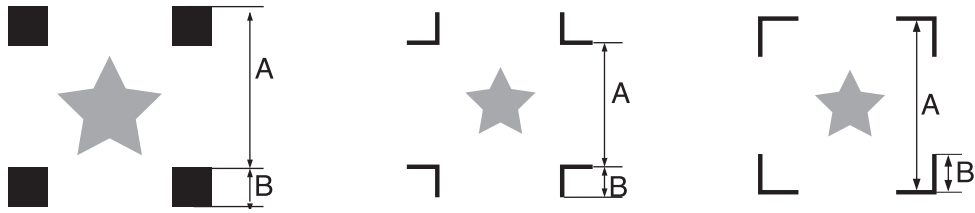
●CFL-605RT



| | | |
|---|----------|-----|
| A | 200 max. | 500 |
| B | 10 | 15 |

(mm)

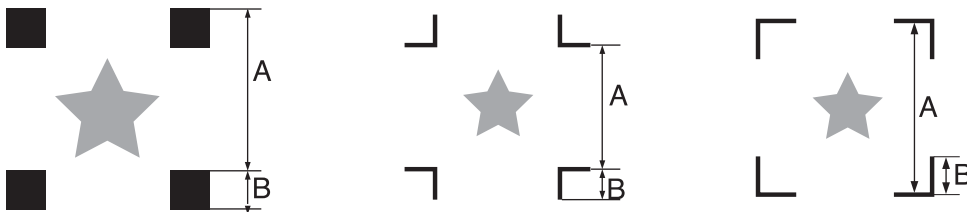
●CF22-1225



| | | | | | |
|---|----------|----------|-----------|-----------|-----------|
| A | 200 max. | 500 max. | 1000 max. | 1500 max. | 1501 min. |
| B | 5 | 10 | 15 | 20 | 30 |

(mm)

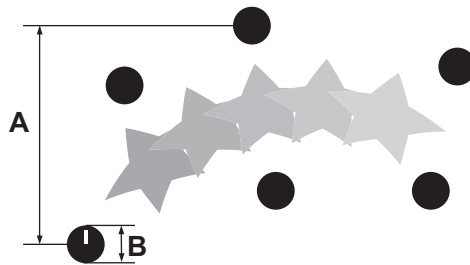
●CFX series (Excluding free register marks)



| | |
|---|---------|
| A | 50 min. |
| B | 10 |

(mm)

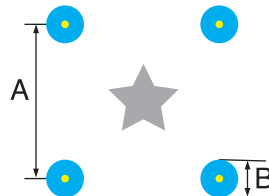
●CFX series (Free register marks)



| | |
|---|-----------------|
| A | No restrictions |
| B | 10 |

(mm)

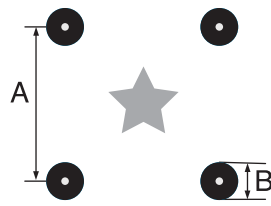
●Trotec Speedy Series



| | |
|---|-----------------|
| A | No restrictions |
| B | 5 |

(mm)

●Gravotech LS series, DCF-605PU (Digital coating machine)

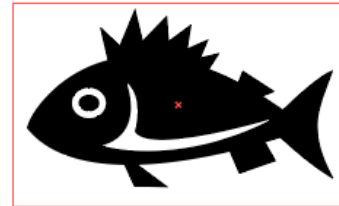


| | |
|---|-----------------|
| A | No restrictions |
| B | 5 |

(mm)

CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series

1 Enclose an object with a rectangle on the position for making a register mark.

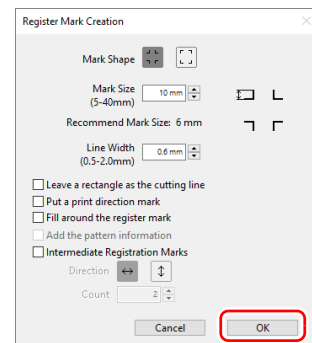



2 Click [Register Mark Creation] button in the FineCut menu.



3 Set the shape or others for the register mark.


- Click [OK] after setting.




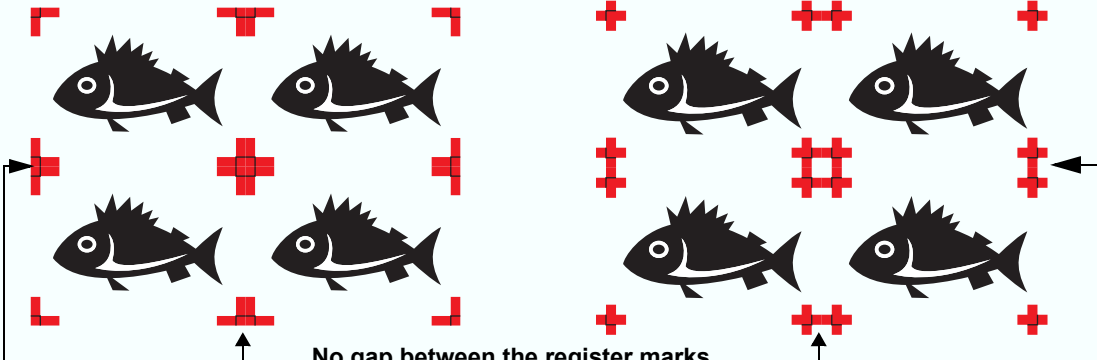
| Item | Description |
|--|---|
| Mark Shape | Select the shape of the register mark. • When using the mark also for CF series, select  . |
| Mark Size | Set the size of the register mark. Set the larger size than [Recommend Mark Size] below. |
| Recommend Mark Size | Displays a recommended register mark size. |
| Line Width | Set the line width of the register mark. • When using the mark also for CF series, select “1 mm”. |
| Leave a rectangle as the cutting line | Cuts the rectangle created in step 1. |
| Put a print direction mark | ▼ mark is added while making register marks. For the data that the front and the back looks alike, add this mark to set a printed media on the plotter in the correct direction. • If you set the intermediate register mark, you cannot add a print direction mark. |
| Fill around the register mark | Fills around the register mark with red spot color. When register mark is not recognized on the media of other than white, the mark can be recognized with this function. • Recommend color to fill around is red (default) or white. To print with white, refer to the RIP manual. Generally allocate red spot color to white and print. |

Important!

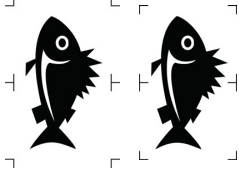


- When register mark is not recognized filling around the mark with red or white, it will not improve with the other colors. Furthermore, some types of media or inks may not recognize the register mark even if the color around the mark is changed.
- When cutting continuously (P.3-28) with this function, do not gap between register marks.

When register shape is 

When register shape is 



No gap between the register marks

| Item | Description |
|--|---|
| Add the pattern information (Only for CG-75ML) | Adds a bar-code shaped pattern information with register mark. With the pattern information and the register mark reading function, you can cut the outline of multiple different sticker at one time. |
| Intermediate Registration Marks (Only for CG-SRIII, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series) | Adds the intermediate register mark. You can cut a long outline with higher accuracy by the intermediate register mark and the register reading function of CG-SR III, CG-AR, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series. <ul style="list-style-type: none"> When an intermediate register mark is added, ID cut output (P.5-19) can not be done.  |
| Direction | Set the split direction of the intermediate register mark.   |
| Count | Set the number of splits of the intermediate register mark. Specify the number of splits within [2 to 10]. |

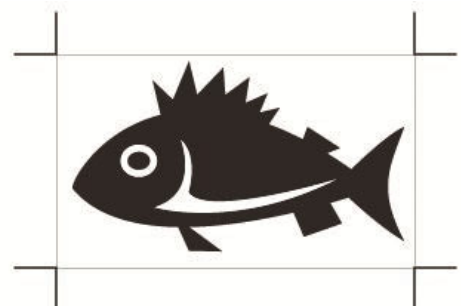
Important!

- When you set the intermediate register mark, set the number of splits of the intermediate register mark so that spaces between the register marks may become more than 50mm.

4 Register marks are created. Output this data to the printer.

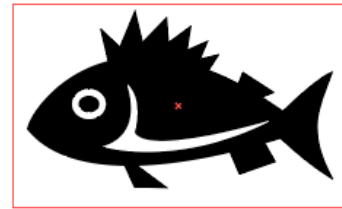


- Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]...
- Please note that FineCut recognizes only one set of register mark. When two or more register mark sets are created, set unnecessary register mark undisplayed.



CF2, DC, CF3 series

1 Enclose an object with rectangle on the position for making a register mark.

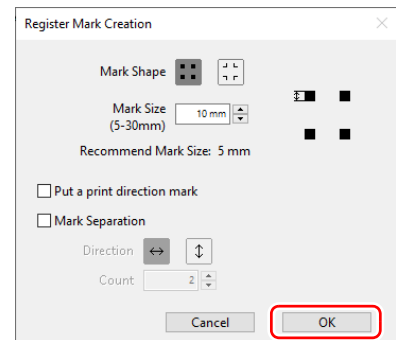



2 Click [Register Mark Creation] button in the FineCut menu.

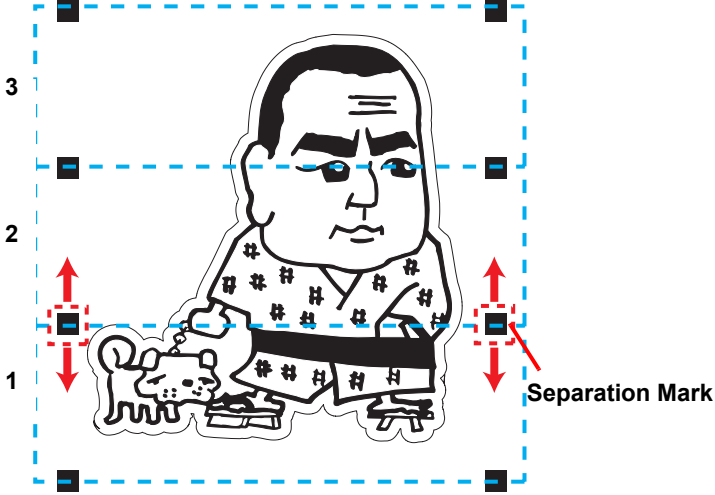



3 Set the size of register mark.

- Click [OK] after setting.



| Item | Description |
|-----------------------------------|---|
| Mark Shape | Select the shape of the register mark. • When using the mark also for CG series, select  . |
| Mark Size | Set the size of the register mark. Set the larger size than [Recommend Mark Size] below. |
| Recommend Mark Size | Displays a recommended register mark size. |
| Put a print direction mark | ▼ mark is added while making register marks. For the data that the front and the back looks alike, add this mark to set a printed media on the plotter in the correct direction. |

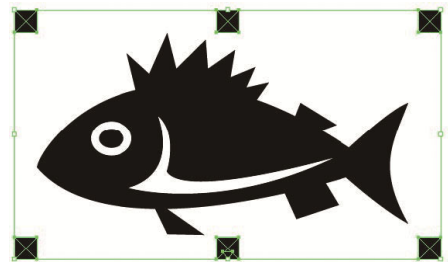
| Item | Description |
|-------------------------------|---|
| <p>Mark Separation</p> | <p>Cuts each separated area. Use it when an object is too large to fit in the cut area. (☞ P.3-40 for cutting)</p> <ul style="list-style-type: none"> • For the figure below, it is cut in 3 times of 1 to 3.  <ul style="list-style-type: none"> • The position of the separated mark can be moved by selecting with [Direct Selection Tool] of Illustrator. To change the position of the marks, align them on the same line in the separated direction (Vertical for the figure above). Marks of left and right (or above and below) make a pair. To change the mark position, move them together. • If  is selected on [Mark Shape], this function is disabled. |

Important!

- On the CF2, DC, CF3 series, set the same values as the settings above.
Setting items of each machine: [SIZE] [STYLE]
See the operation manual of each machine for details.

4

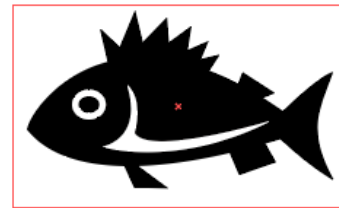
**Register marks are created.
Output this data to the printer.**



- Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]...
Please note that FineCut recognizes only one set of register mark. When two or more register mark sets are created, set unnecessary register mark undisplayed.

CFL-605RT

1 Enclose an object with a rectangle on the position for making a register mark.

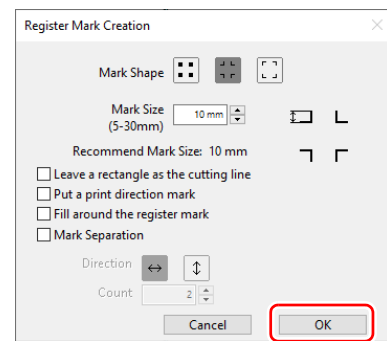



2 Click [Register Mark Creation] button in the FineCut menu.

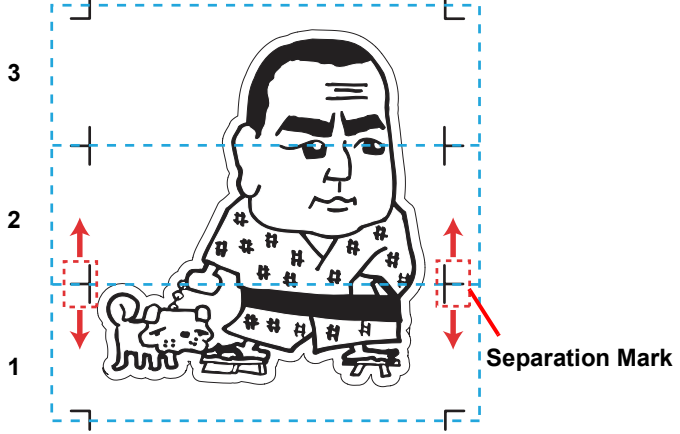


3 Set the shape or others for the register mark.

- Click [OK] after setting.





| Item | Description |
|--|---|
| Mark Shape | Select the shape of the register mark. • When using the mark also for CG or CF series, select  . |
| Mark Size | Set the size of the register mark. Set the larger size than [Recommend Mark Size] below. |
| Recommend Mark Size | Displays a recommended register mark size. |
| Leave a rectangle as the cutting line | Cuts the rectangle created in step 1. |
| Put a print direction mark | ▼ mark is added while making register marks. For the data that the front and the back looks alike, add this mark to set a printed media on the plotter in the correct direction. |
| Fill around the register mark | Fills around the register mark with red spot color. When register mark is not recognized on the media of other than white, the mark can be recognized with this function. • Recommend color to fill around is red (default) or white. To print with white, refer to the RIP manual. Generally allocate red spot color to white and print. |

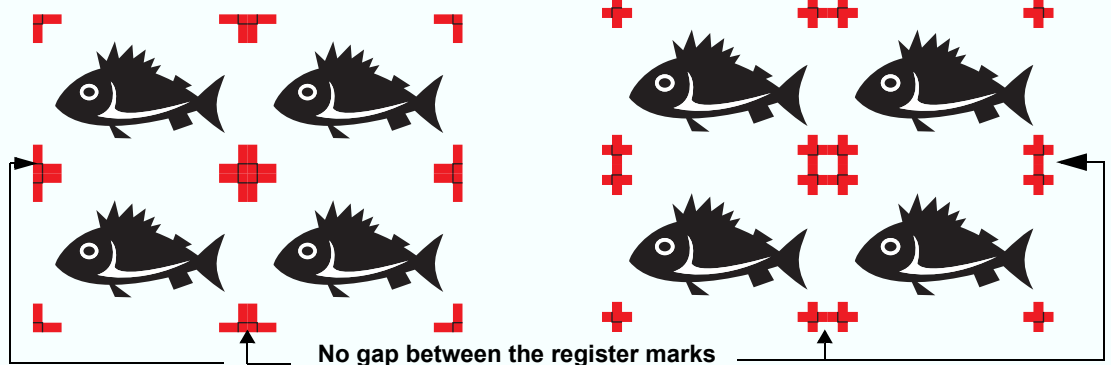
| Item | Description |
|-------------------------------|---|
| <p>Mark Separation</p> | <p>Cuts each separated area. Use it when an object is too large to fit in the cut area. (☞ P.3-48 for cutting)</p> <ul style="list-style-type: none"> • For the figure below, it is cut in 3 times of 1 to 3.  <ul style="list-style-type: none"> • The position of the separated mark can be moved by selecting with [Direct Selection Tool] of Illustrator. To change the position of the marks, align them on the same line in the separated direction (Vertical for the figure above). Marks of left and right (or above and below) make a pair. To change the mark position, move them together. |

Important!

- When register mark is not recognized filling around the mark with red or white, it will not improve with the other colors. Furthermore, some types of media or inks may not recognize the register mark even if the color around the mark is changed.
- When cutting continuously (☞ P.3-28) with this function, do not gap between register marks.

When register shape is 

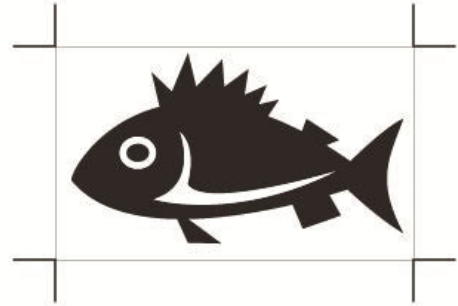
When register shape is 



- On the CFL-605RT, set the same values as the settings above.
Setting items of each machine: [SIZE] [STYLE]
See the operation manual of each machine for details.

4

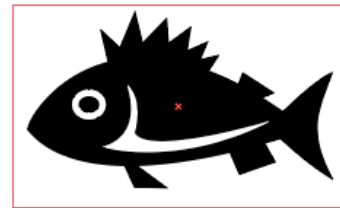
Register marks are created.
Output this data to the printer.



- Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]... Please note that FineCut recognizes only one set of register mark. When two or more register mark sets are created, set unnecessary register mark undisplayed.

1

Enclose an object with a rectangle on the position for making a register mark.



2

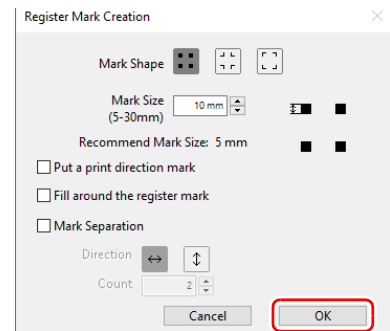
Click [Register Mark Creation] button in the FineCut menu.




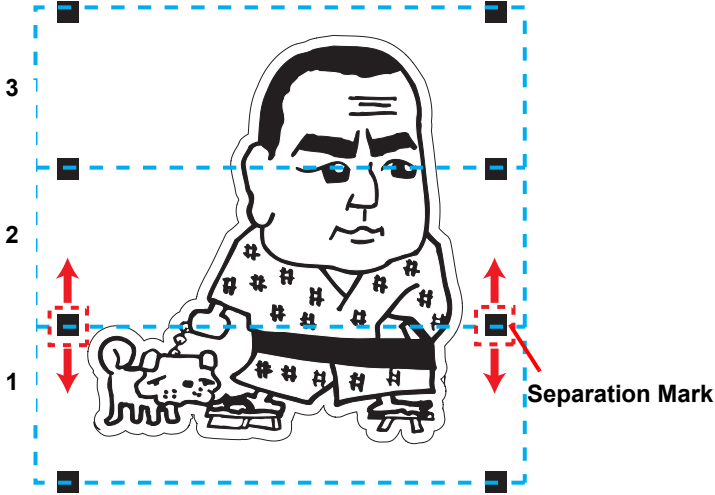
3

Set the shape or others for the register mark.

- Click [OK] after setting.



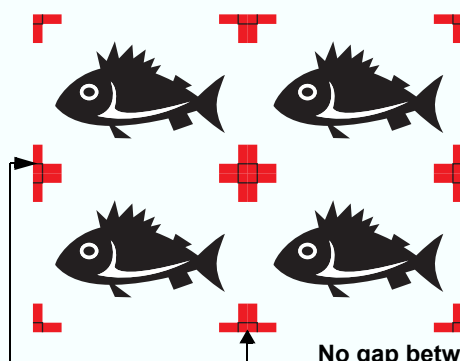
| Item | Description |
|--------------------------------------|---|
| Mark Shape | Select the shape of the register mark. • When using the mark also for CG or CF series, select  . |
| Mark Size | Set the size of the register mark. Set the larger size than [Recommend Mark Size] below. |
| Recommend Mark Size | Displays a recommended register mark size. |
| Put a print direction mark | ▼ mark is added while making register marks. For the data that the front and the back looks alike, add this mark to set a printed media on the plotter in the correct direction. |
| Fill around the register mark | Fills around the register mark with red spot color. When register mark is not recognized on the media of other than white, the mark can be recognized with this function. • Recommend color to fill around is red (default) or white. To print with white, refer to the RIP manual. Generally allocate red spot color to white and print. |


| Item | Description |
|-------------------------------|---|
| <p>Mark Separation</p> | <p>Cuts each separated area. Use it when an object is too large to fit in the cut area. (☞ P.3-63 for cutting)</p> <ul style="list-style-type: none"> For the figure below, it is cut in 3 times of 1 to 3.  <ul style="list-style-type: none"> The position of the separated mark can be moved by selecting with [Direct Selection Tool] of Illustrator. To change the position of the marks, align them on the same line in the separated direction (Vertical for the figure above). Marks of left and right (or above and below) make a pair. To change the mark position, move them together. |

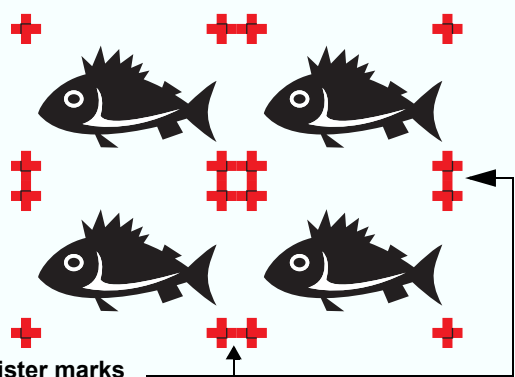
Important!

- When register mark is not recognized filling around the mark with red or white, it will not improve with the other colors. Furthermore, some types of media or inks may not recognize the register mark even if the color is changed.
- When cutting continuously (☞ P.3-28) with this function, do not gap between register marks.

When register shape is 



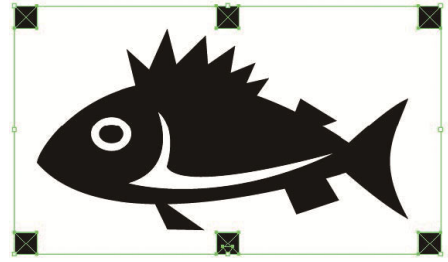
When register shape is 



- On the CF22-1225, set the same values as the settings above.
Setting items of each machine: [SIZE] [STYLE]
See the operation manual of each machine for details.

4

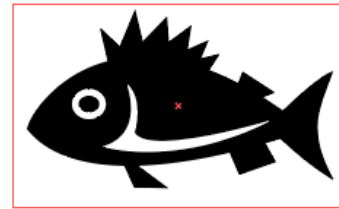
**Register marks are created.
Output this data to the printer.**



- Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]... Please note that FineCut recognizes only one set of register mark. When two or more register mark sets are created, set unnecessary register mark undisplayed.

CFX series (excluding free register marks)

1 Enclose an object with a rectangle on the position for making a register mark.

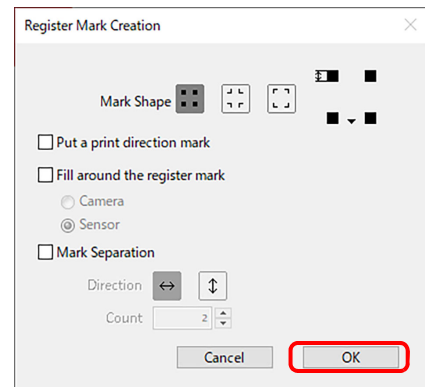



2 Click the [Register Mark Creation] button in the FineCut menu.



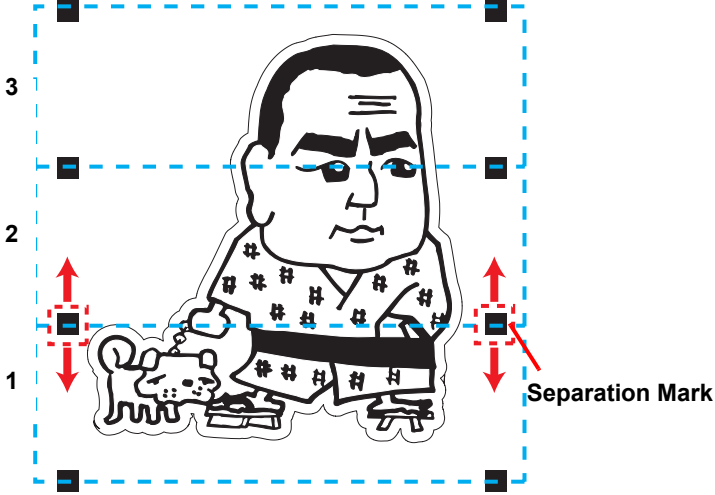


3 Set the shape or others for the register mark.

- Click [OK] after setting.
- If you wish to use free register marks, refer to P.5-36 "Placing Register Marks Freely and Cutting (CFX series)".








| Item | Description |
|--------------------------------------|---|
| Mark Shape | Select the shape of the register mark. • When using the mark also for CG series, select  . |
| Put a print direction mark | ▼ mark is added while making register marks. For the data that the front and the back looks alike, add this mark to set a printed media on the plotter in the correct direction. |
| Fill around the register mark | Fills around the register mark with red spot color. When register mark is not recognized on the media of other than white, the mark can be recognized with this function. • The recommended color to fill around is red (default) or white. To print with white, refer to the RIP manual. Generally allocate red spot color to white and print. |
| | [Camera]: Select this option if the camera option is used to detect register marks. [Sensor]: Select this option if register marks are detected without the camera option. |


3 Creating Register Marks

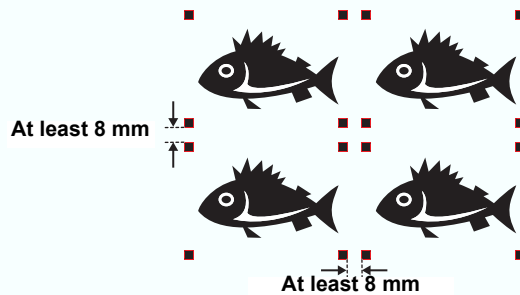
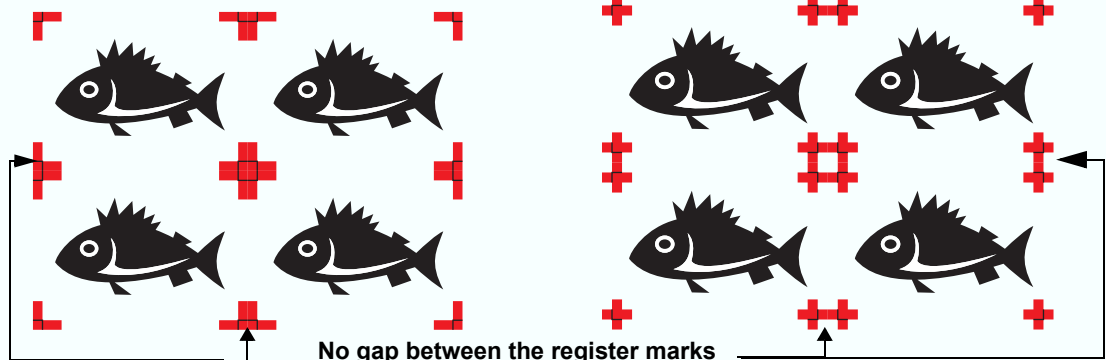
| Item | Description |
|-------------------------------|---|
| <p>Mark Separation</p> | <p>Cuts each separated area. Use it when an object is too large to fit in the cut area. (☞ P.3-40 for cutting)</p> <ul style="list-style-type: none"> • For the figure below, it is cut in 3 times of 1 to 3.  <ul style="list-style-type: none"> • The position of the separated mark can be moved by selecting with [Direct Selection Tool] of Illustrator. To change the position of the marks, align them on the same line in the separated direction (Vertical for the figure above). Marks of left and right (or above and below) make a pair. To change the mark position, move them together. • This function is disabled if  or  is selected in [Mark Shape]. |

Important!

- When register mark is not recognized filling around the mark with red or white, it will not improve with the other colors. Furthermore, some types of media or inks may not recognize the register mark even if the color around the mark is changed.
- If you select [Camera] and use this function to perform continuous cutting with the  or  register marks, be sure to print allowing a gap of 8 mm between register mark data.
- If you select [Sensor] and use this function to perform continuous cutting with the  or  register marks (☞ P.3-67), be sure to print so that there are no gaps between the register mark data.

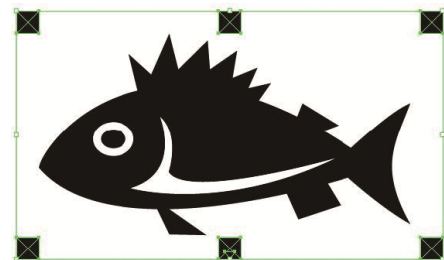
When register shape is 

When register shape is 



4

**Register marks are created.
Output this data to the printer.**



- Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]... Please note that FineCut recognizes only one set of register mark. When two or more register mark sets are created, set unnecessary register mark undisplayed.

CFX series (free register marks)

1

Click the [Create Free Register Marks] button on the Illustrator toolbar.

- If the [Create Free Register Marks] button is not shown on the toolbar, refer to P.8-4 "[Specify Cutting Start Position], [Specify Cutting Direction], [LineEdit], and [Free Register Mark Tool] are not shown on the Illustrator toolbar" when the [Specify Cutting Direction] button is not displayed on the toolbar
- The [Create Free Register Marks] tool is displayed.

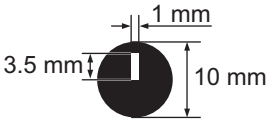
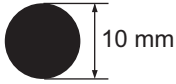


2

The [Create Free Register Marks] tool is used to set the shape or others for the register mark.

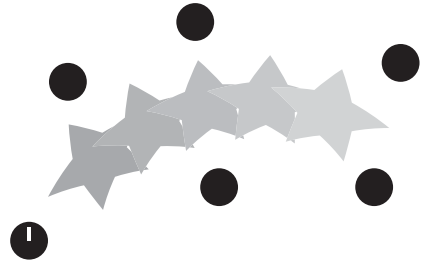
Create Free Register Marks

- Create First Free Register Marks
- Fill around the register mark

| Item | Description |
|---|--|
| Create First Free Register Marks | <p>Select the shape of the register mark.</p> <ul style="list-style-type: none"> • ON Creates an origin register mark when clicked. This is the register mark used as a reference that is first scanned by the sensor. Only one can be placed. <p>A black circle with a diameter of 10 mm. A white line that is 1 mm thick and 3.5 mm long extends upward from the center.</p>  <ul style="list-style-type: none"> • OFF Creates a ● register mark when clicked. More than one can be placed. <p>Black circle 10mm in diameter.</p>  |
| Fill around the register mark | <p>Fills around the register mark with red spot color. This function can recognize register marks when register marks are not recognized properly on media that is a color other than white.</p> <ul style="list-style-type: none"> • The recommended color to fill around is red (default) or white. To print with white, refer to the RIP manual. Generally, allocate red spot color to the white ink and print. |

3**Click any point in the image.**

- A free register mark is created in the "FC Free RegisterMark Layer".
- Allowable number of free register marks: 2 to 2,048 (including the first free register mark)
- An error message will be displayed if you try to place a first free register mark while one already exists. In such a case, move the existing first free register mark to the desired position, or delete it and place a new one.



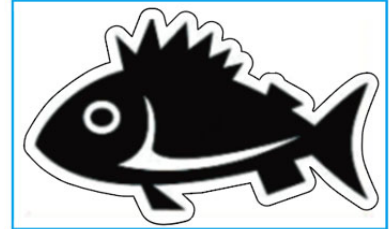
CFX series (teaching)

1

In Illustrator, create a layer to place the teaching rectangle.

2

Create a rectangle to match the position you want to detect in teaching.




Important!

- Be sure to create the rectangle to be placed on a layer separate from the cut data. (This is so that you can uncheck this item later to remove it from the cut target.)

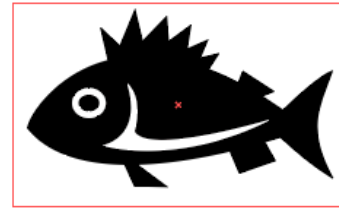


- If the data contains rectangles originally used as guides, Illustrator trim marks, or the like, they can be used as a reference for alignment, so there is no need to add rectangles.

 P.5-37 "Cutting Using Other Non-Mimaki Register Marks (CFX series)"

Trotec Speedy Series, Gravotech LS series, DCF-605PU(Digital coating machine)

1 Enclose an object with a rectangle on the position for making a register mark.



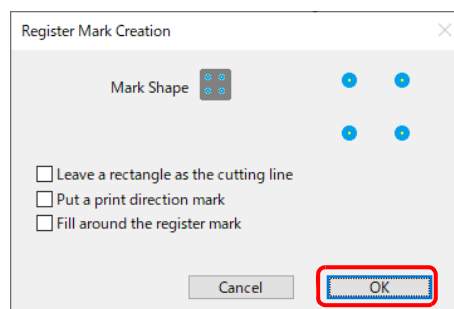
2 Click [Register Mark Creation] button in the FineCut/Coat menu.



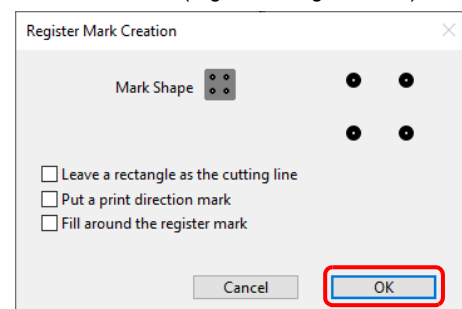
3 Set the option for the register mark.

- Click [OK] after setting.

Trotec Speedy series



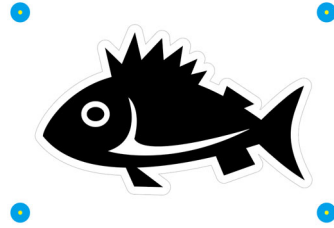
Gravotech LS series,
DCF-605PU (Digital coating machine)



| Item | Description |
|--|--|
| Leave a rectangle as the cutting line | Cuts the rectangle created in step 1. |
| Put a print direction mark | ▼ mark is added while making register marks. For the data that the front and the back looks alike, add this mark to set a printed media on the plotter in the correct direction. |
| Fill around the register mark | Fills around the register mark with red (Trotec Speedy series) or gray (Gravotech LS series, DCF-605PU (Digital coating machine)) spot color. <ul style="list-style-type: none"> • Recommend color to fill around is red / gray (default) or white. To print with white, refer to the RIP manual. Generally allocate red spot color to white and print. • When performing register mark detection with [Camera] on the Gravotech LS series: When using media other than white, be sure to check [Fill around register marks]. |

4

**Register marks are created.
Output this data to the printer.**



- Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]. Please note that FineCut/Coat recognizes only one set of register mark. When two or more register mark sets are created, set unnecessary register mark undisplayed.

Cutting an Object

CG-EX series

Detect the register marks and cut the object.

1


Set the printed sheet on the plotter to detect register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

2

Click [Plot] button in the FineCut menu.



- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click  [Plot Selected Path].



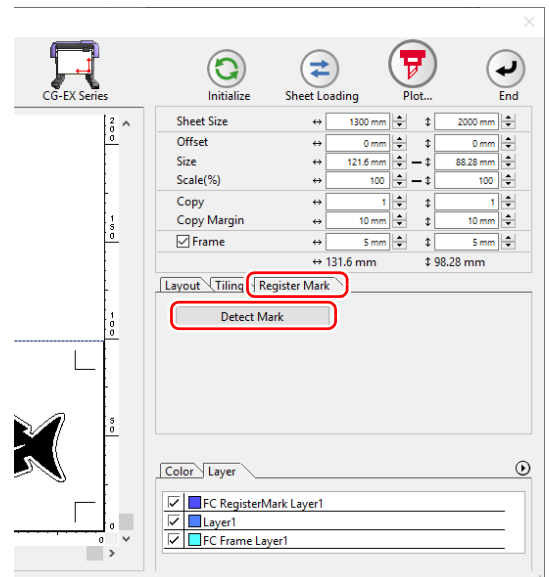
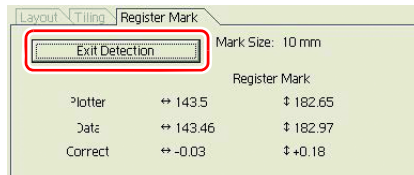
3

Click [Register Mark] tab and click [Detect Mark].

- The register marks are detected.

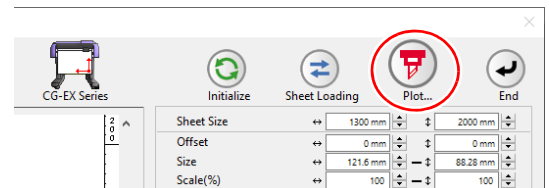


- To cancel the register mark detection, click [Exit Detection].



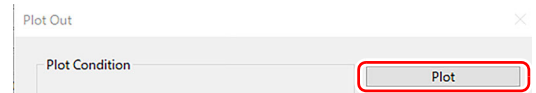
4

Click  (Plot button).



5

Click [Plot] to start cutting.



CG-FX, CG-FXII, CG-FXII Plus, CG-75ML, CG-60SR, CG-100SRII, CG-SRII, CG-AR, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series

Important!

- If [Other CG series] is selected on [Plotter] screen of Plotter / User Setup, register marks cannot be cut.

Cutting one image continuously

Register marks are detected and one image is cut multiple times. The register marks can be detected at high speed.

Important!

- Use only one set of register mark on Illustrator.
- If printing the same data multiple times, use the copy function of your print software (RIP).
- Align the images to X/Y (vertical/horizontal) direction.



- When CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series or TPC is used, you can print & cut by one operation working with RasterLink. (P.4-12)


1

Set a printed sheet on the plotter to detect register marks.

2

Click [Plot] button in the FineCut menu.



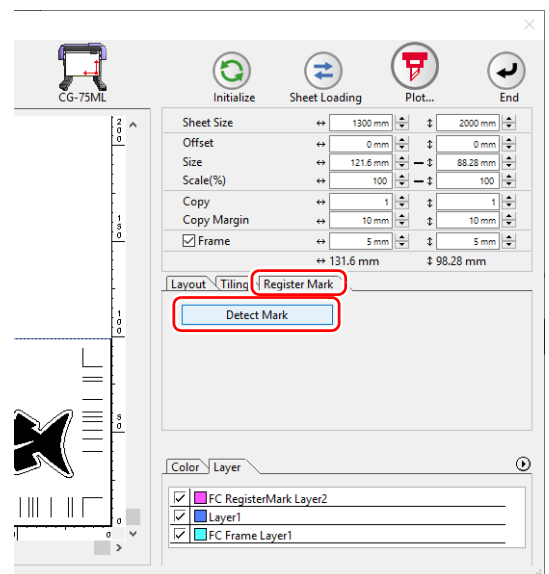
- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click  [Plot Selected Path].



3

Click [Register Mark] tab and click [Detect Mark].

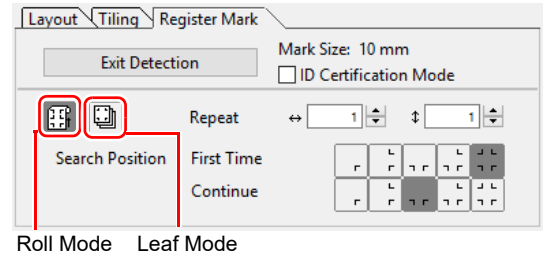
- The register marks are detected.



4

Set register marks to detect continuously.

- To cancel register mark detection, click [Exit Detection].

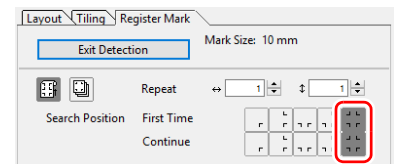


| Item | Description | | | |
|------------------------|--|---|--|-----------|
| ID Certification Mode | (P.3-32) | | | |
| Roll Mode/Leaf Mode *1 | Select the sheet to cut. | | | |
| Repeat | In case the number is indefinite, input "9999" (the maximum numbers). | | | |
| | <table border="0"> <tr> <td>Roll Mode</td> <td>Set the data numbers to vertical and horizontal direction.</td> </tr> <tr> <td>Leaf Mode</td> <td>Set the sheet numbers to replace.</td> </tr> </table> | Roll Mode | Set the data numbers to vertical and horizontal direction. | Leaf Mode |
| Roll Mode | Set the data numbers to vertical and horizontal direction. | | | |
| Leaf Mode | Set the sheet numbers to replace. | | | |
| Search Position | First Time | Select the first detection points of the register mark. | | |
| | Continue | Select the second and the subsequent detection points of the register mark. | | |

*1. The CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series does not correspond to the Leaf Mode.

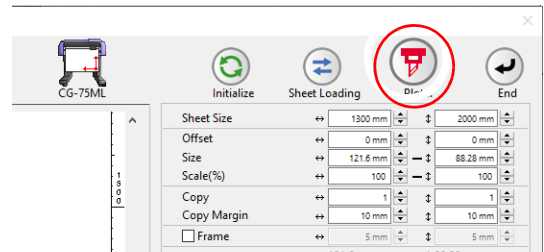


- When detecting a large data, increase the mark detection points to cut more precisely.
When detecting a small data, decrease the detection points of "Continue" to reduce the detecting time.
- When there is the intermediate register mark, four positions detection is set for the detection point both for the first time and the second time. You cannot select other than above.



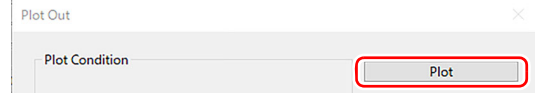
5

Click (Plot button).



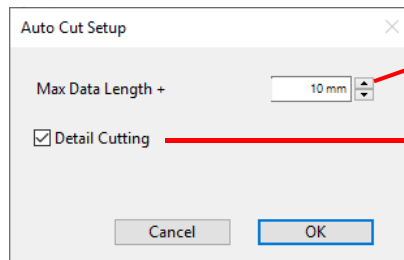
6

Click [Plot] to start cutting.



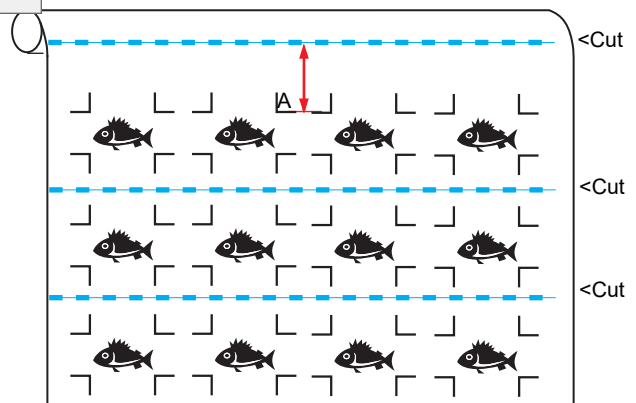
In case of Auto Cut (When CG-FX, CG-FXII, CG-FXII Plus, CG-75ML, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series is selected)

- Checking [Auto Cut] in Plot Out screen enables sheet to cut automatically after each cutting. To execute auto cut, make sure to check [Auto Cut] in this screen. Even if ON is set on the plotter, auto cut is invalid unless [Auto Cut] is checked on Plot Out screen. Even if OFF is set on the plotter, auto cut is valid with [Auto Cut] checked on Plot Out screen.
- Click [Set...] below [Auto Cut], and set in detail as follows.



Set the length from the last line to the cutting point. (See the figure A below).

Check to cut the data at every line. (See blue line below)



7

(Following steps are only for cutting with several leaf sheets)



- The CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series does not correspond to the Leaf Mode.

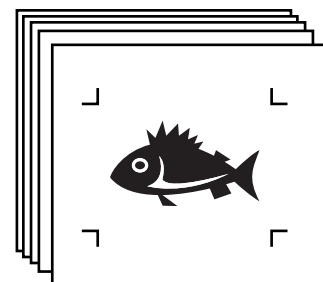
- After cutting the first sheet, a message appears on the plotter. Set the next sheet.

CHANGE SHEET

8

The register marks are detected automatically and the data is cut.

- Repeat the step 7 and 8 for the number of the sheets.



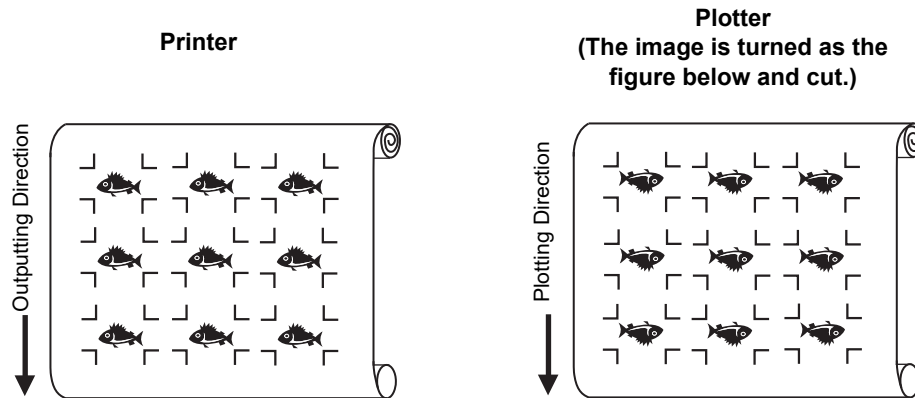


- When using CG-FX or CG-FXII, CG-FXII Plus, register marks are automatically detected.
When using the other models, detect the register marks manually every time the sheet is replaced. For more details, refer to the Operation Manual of the main unit.

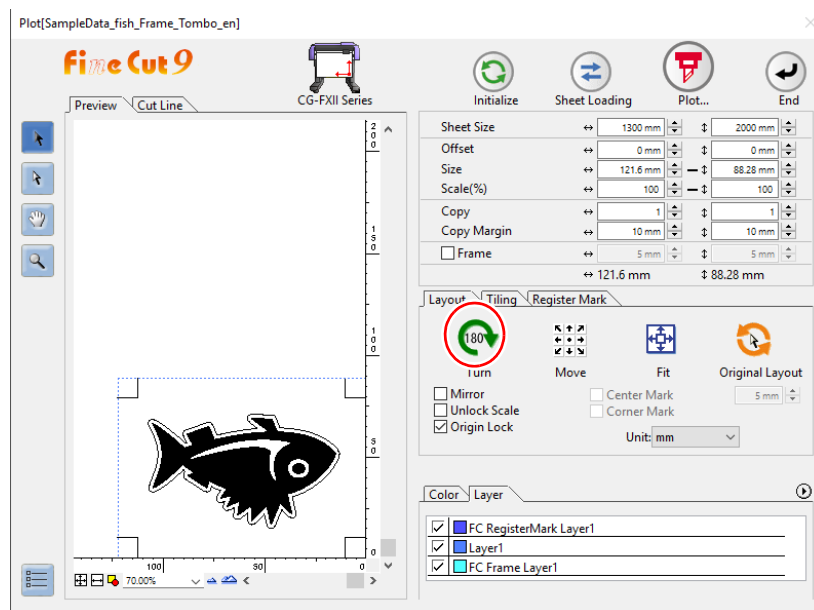


When the sheet printed by the printer with take-up function (MIMAKI JV series etc.) is rolled on a paper core

- The paper core can be set to the plotter without rewinding, and it can be cut continuously.



(1) After the step 2, click the Turn button to 180 degrees in the [Layout] tab.

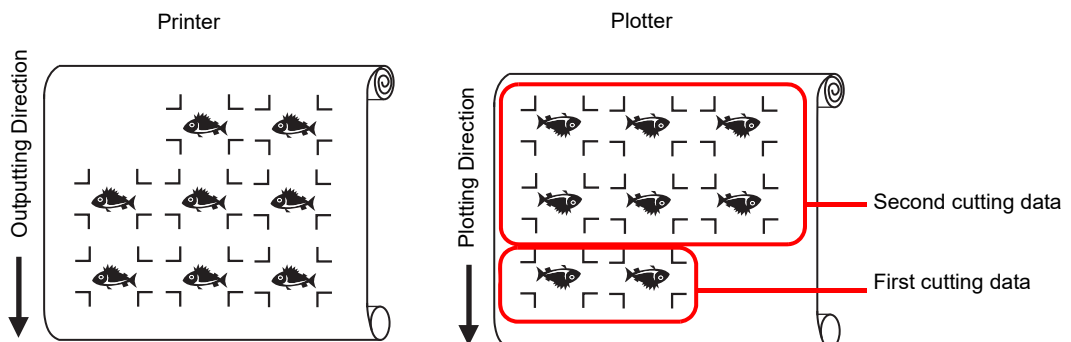


(2) Work from the step 3.



When the continuously-printed data does not fill a part of the lines

- Cut the data in twice to cut all the data.

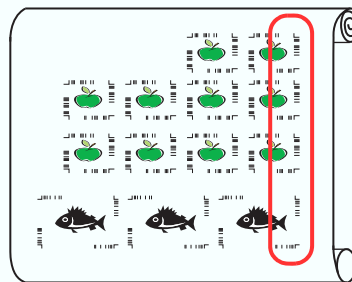


Cutting multiple images continuously (CG-75ML only)

For multiple different images, the plotter automatically cuts on the accurate position with the ID pattern register mark.

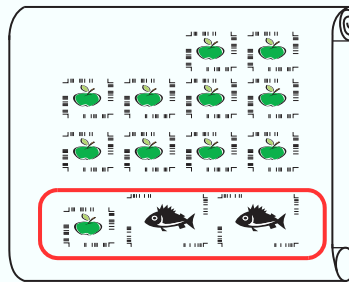
Important!

- Standardize the shape, the size, the line width of the register mark. If a different shape of the register mark is mixed, the register mark cannot be detected precisely.
- Use only one set of register mark on Illustrator. If printing the same data multiple times, use the copy function of your print software (RIP).
- To use the ID pattern register mark, be sure to select “1pt” on “MARK DETECT” of the plotter as the number of register mark detection.
- Set the plotter origin (“ORGN SELECT”) to “LOWERrightORIGIN”.
- Align the register mark on the right side (origin side) for printing.



Plotting direction

- Do not locate the different image to Y (horizontal) direction.



Not Good

Plotting direction

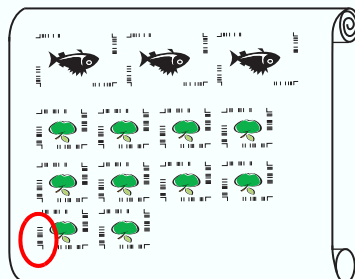
1

Set the printed sheet on the plotter to detect register marks.

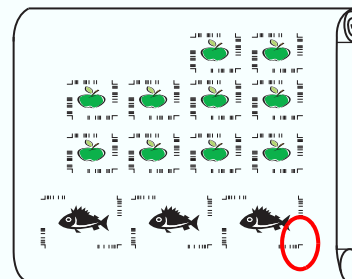
- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

Important!

- When loading a printed media in a direction opposite to the print, be sure to detect the register mark at the lower left.



Setting to the opposite direction




Setting to the same direction

Plotting direction

2

Click [Plot] button in the FineCut menu.



- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click .

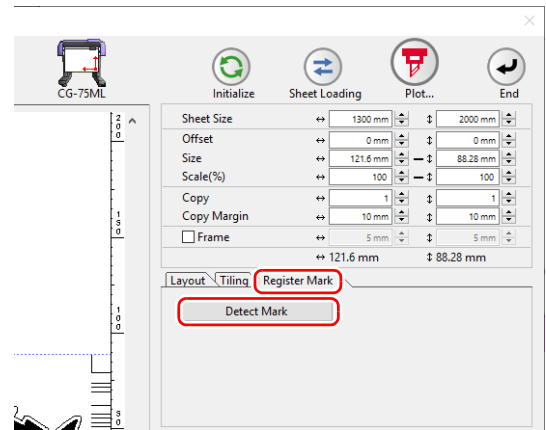


3

Click [Register Mark] tab and click [Detect Mark].

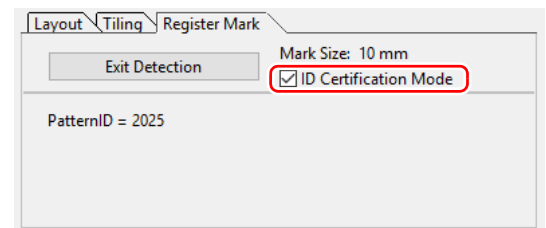


- The register marks are detected.
- When cutting with ID certification mode, rotating direction is recognized automatically.



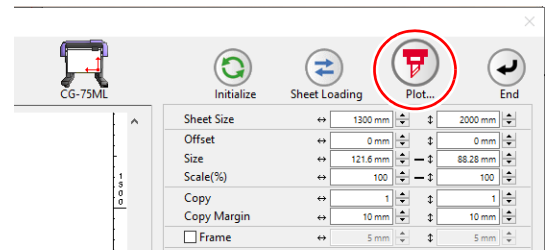
4

Confirm that [ID Certification Mode] is checked.




5

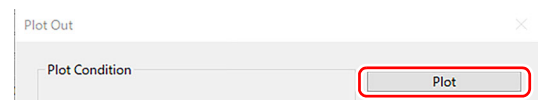
Click  (Plot button).



6

Click [Plot].

- Data is sent and the plotter enters Local mode.
- For Auto Cut, refer to ( P.3-30)



3

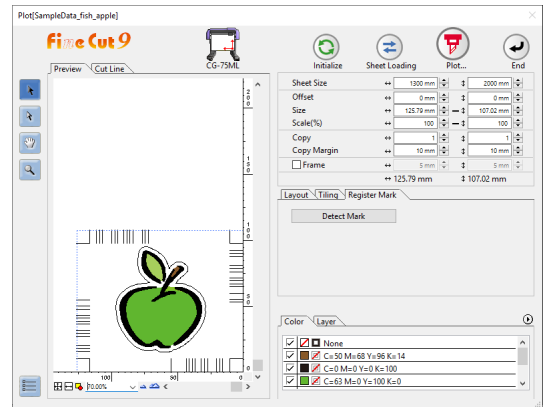
Creating Register Marks

7

Repeat the step 2 to 6 for the other data to be cut continuously at a time.



- Sending order of data is not necessary to be the same as the order of printing.



8

Press [REMOTE] button on the plotter.

- Cutting starts.

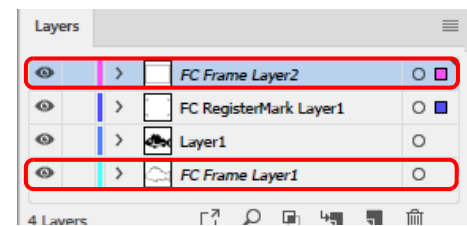
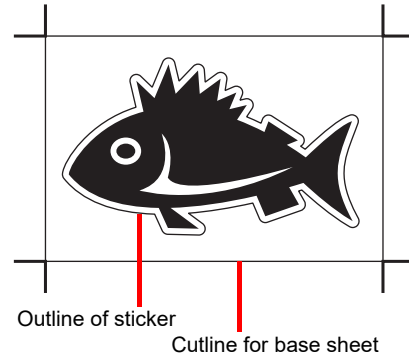
Cutting an outline and a base sheet cutline at a time (except CG-FX, CG-FXII series, CG-FXII Plus)

An outline of sticker and a dotted line to separate the base sheet (called HALF cut) can be cut at a time.

1

Create an image with multiple layers on Illustrator, and print the object.

- Example:
FC Frame Layer 1 : An outline of sticker
FC Frame Layer 2 : A cutline to separate the base sheet
(This line is created by selecting [Leave a rectangle as the cutting line] when creating register marks. (P.3-9))



2

Set a printed sheet on the plotter to detect register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

3

Click [Plot] button in the FineCut menu.

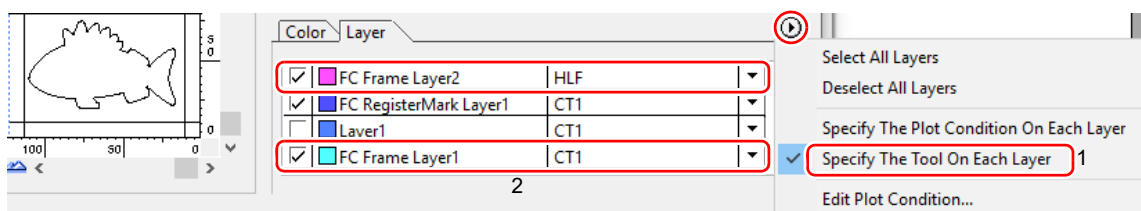


4

Click [Layer] tab and set the cutting condition for each layer.

Example:

- (1) Select [Specify The Tool on Each Layer].
- (2) For FC Frame Layer 1 : Select "CT1".
For FC Frame Layer 2 : Select "HLF".
(For more details, refer to (P.5-14).)



3

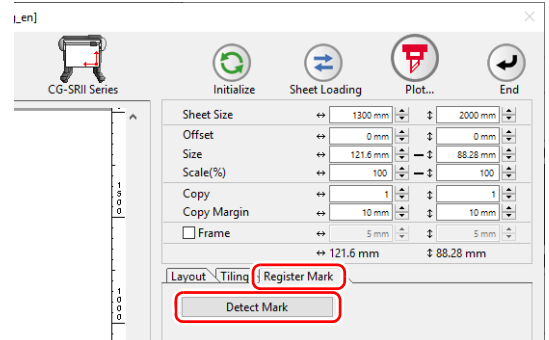
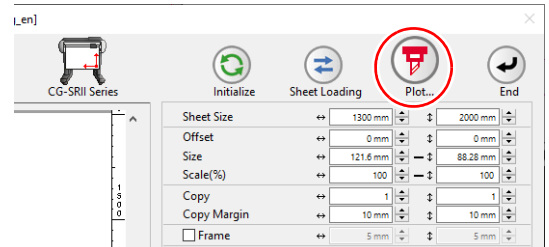
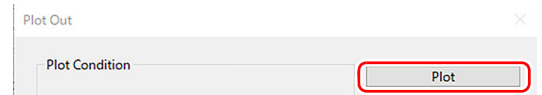
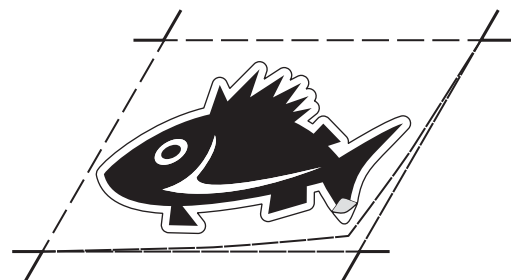
Creating Register Marks

5**Adjust the protrusion of the cutter blade and cutting pressure for each tool.**

- Adjustment of the protrusion of the cutter blade:
Refer to "Cut pressure according to each tool" in the Operation Manual of the main unit.
- Cutting pressure of each tool:
[CT1]: Pressure where cutter blade track remains on the base sheet
[HLF]: Pressure to cut out the base sheet

6**Click [Register Mark] tab and click [Detect Mark].**

- The register marks are detected.

**7****Click  (Plot button).****8****Click [Plot] to start cutting.****9****After cutting, separate the base sheet.**

CF2, DC, CF3 series

Detect register marks, and cutting

1

Set a printed sheet on the plotter to detect register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.



- Set the light pointer to the right position depending on the mark shapes. For more details, refer to "Register Mark Detection Procedure" in the Operation Manual of the main unit.

2


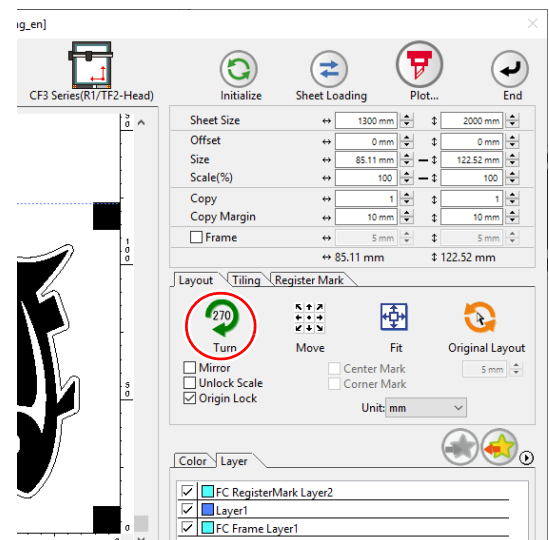
Click [Plot] button in the FineCut menu.



- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click [Plot Selected Path].



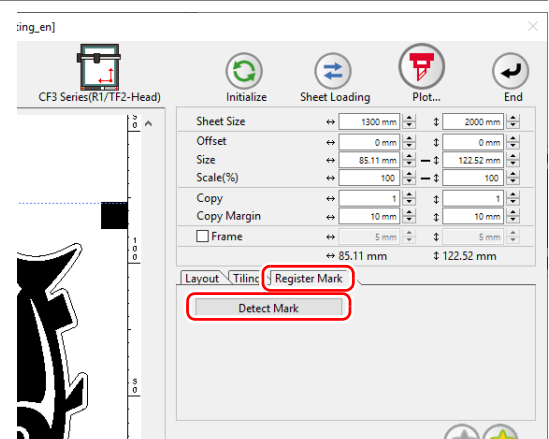
3

Click  (Turn button) to adjust the direction of the image on the plotter with the display of FineCut.

4

Click [Register Mark] tab and click [Detect Mark].

- The register marks are detected.

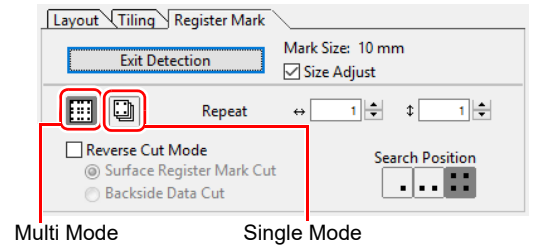



3

Creating Register Marks

5

Select the cutting type.



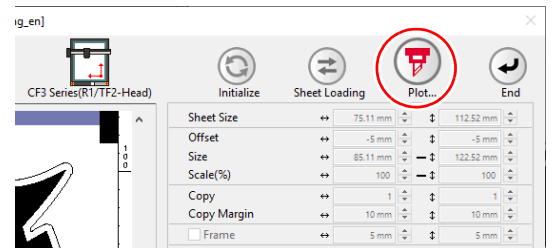
| Item | Description |
|---------------------------------|--|
| Size Adjust | When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media. |
| Multi Mode / Single Mode | <ul style="list-style-type: none"> Multi Mode: Select when cutting plural images printed on one media. Single Mode: Select when cutting sheet with one set of register mark. |
| Repeat | <ul style="list-style-type: none"> If cutting continuously: Input the number of the sheets for cutting continuously. If not cutting continuously: Check both directions are set to "1". |
| Reverse Cut Mode | <p>Check if cutting from the reverse side. Check this when cutting the media that cannot be cut finely from the printed face such as a corrugated board. (☞ P.3-42)</p> <ul style="list-style-type: none"> This function can be used when  is selected as a register mark shape in creating a register mark. |
| Search Position | Select the search position (1, 2, 4 points). |

6

Click  (Plot button).

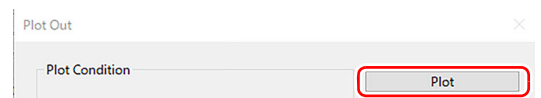


- To set the plot condition on each color /layer, select [Specify The Plot Condition On Each Color / Layer] on Plot screen and set them. (☞ P.5-14)



7

Click [Plot] to start cutting.



8

(The followings are operations for cutting plural sheets in single mode.)

After cutting the first sheet, put the next sheet on the plotter.

9

Press the **VACUUM** key of the plotter, and select “Resume”.

- Press the CE key to cancel continuous cutting.

10

Detect register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.
- Repeat the step 8 to 10 for the number of the sheets.

Cutting with Mark Separation

The large data that cannot be cut in one time can be cut in several times.

Important!

- When making register marks, select [Mark Separation]. (P.3-11)
If [Mark Separation] is not selected, the data cannot be cut separately.

1

Select the data separated by [Mark Separation] on Illustrator.

2

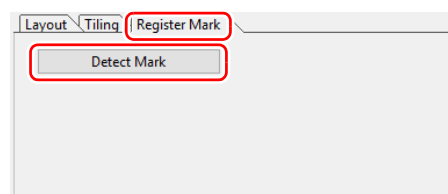
Click [Plot] button in the FineCut menu.



3

Click [Register Mark] tab and click [Detect Mark].

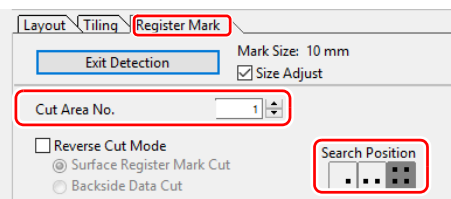
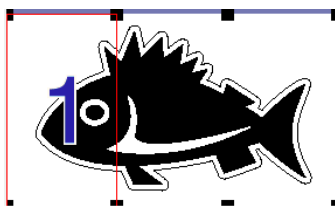
- Register mark is detected.



4

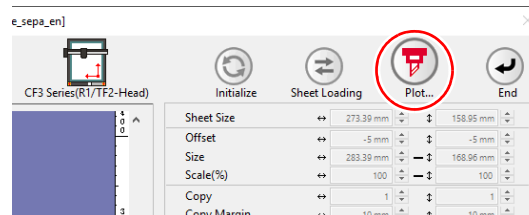
Set the register marks.

- Cut Area No.:
Check it is "1".
- Search Position:
Select the search position of the register mark (1 / 2 / 4 points).
(Other than the CFX series.)



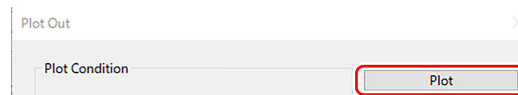
5

Click  (Plot button).



6

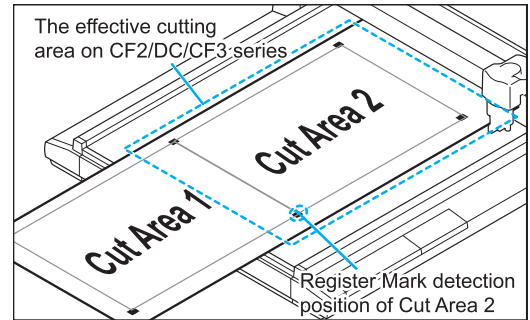
Click [Plot] to start cutting.



7

When cutting is completed, move the media.

- When moving the media, place the all register marks of the cutting area in the effective cutting area of the plotter.



- When cutting with Mark Separation is performed, the plotter displays [***OFF SCALE***], but it does not pose any problem to the operation.

8

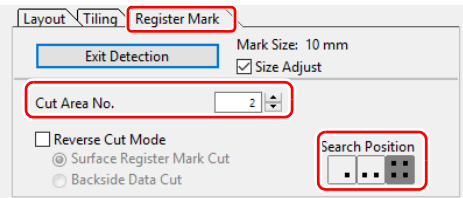
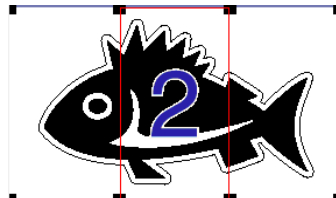
Detect register marks of the cut area “2”.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

9

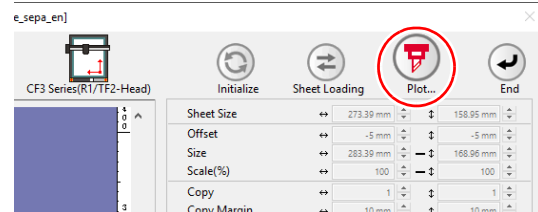
Set the register marks.

- Cut Area No.: Change to “2”.
- Search Position: Select the search position of the register mark (1 / 2 / 4 points). (Other than the CFX series.)



10

Click  (Plot button).



11

Click [Plot] to start cutting.


- Repeat the Step 7 to 11 for each of the divided register mark.

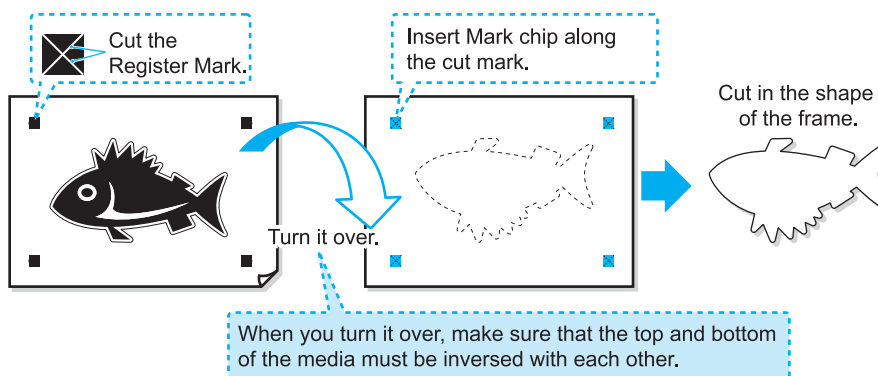


Cutting from the reverse side

Images can be cut from the reverse side, not from the printed (front) side.
Use this function when the media (such as cardboard) is not finished fine by cutting from the front side.

Important!

- When using Reverse Cut Mode, set the register mark size adjusting to the mark chip used. If the register mark is too small, you may not be able to insert the mark chip.
- Use the media of 3 mm or more thickness.
- If  is selected on [Mark Shape], this function is disabled.



1


Turn the printed face up, set the media to the plotter, then detect the register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

2

Click [Plot] button in the FineCut menu.



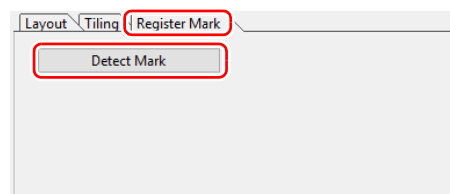
- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click  [Plot Selected Path].



3

Click [Register Mark] tab and click [Detect Mark].

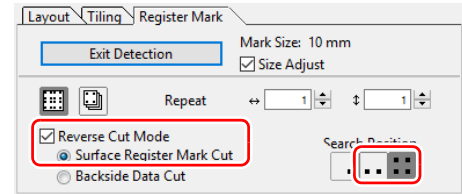
- Register mark is detected.




4

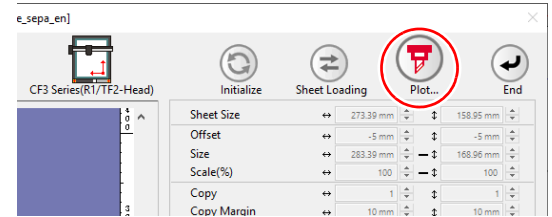
Set the reverse cutting.

- Reverse Cut Mode:
Check and select [Surface Register Mark Cut].
- Search Position:
Select the search position of the register mark (2 / 4 points).

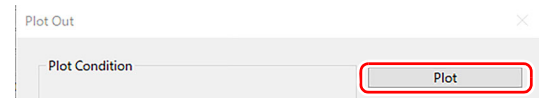
**Important!**

- Before selecting [Surface Register Mark Cut], make sure that there is no mark chip on the position of the register mark. Cutting register marks with the mark chip set is very dangerous because the mark chip could come off by the cutter.
- When [Surface Register Mark Cut] is selected, Search position  (1 point) is invalid.

5

Click  (Plot button).

6

Click [Plot] to start cutting.

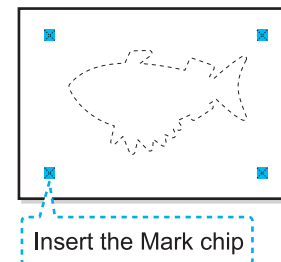
7

Turn back the media, and set it to the plotter.

8

Insert the mark chips using the cut marks.

- Use the mark chips in place of the register marks.



9

Detect register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

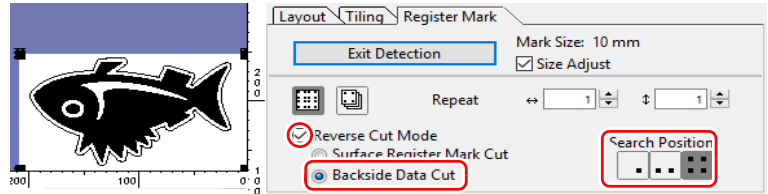
3

Creating Register Marks

10

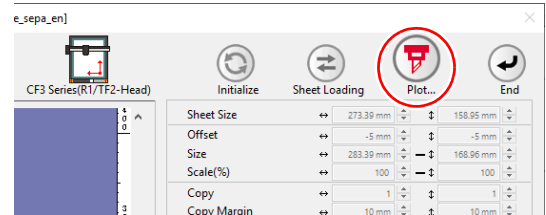
Set the reverse cutting.

- Reverse Cut Mode:
Check and select [Backside Data Cut].
The read data is displayed upside down.
- Search Position:
Select the search position of the register mark (1 / 2 / 4 points).



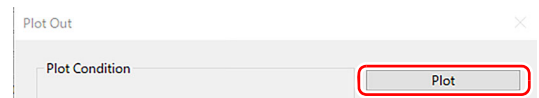
11

Click (Plot button).



12

Click [Plot] to start cutting.



CFL-605RT

Detect register marks, and cutting

1

Set a printed sheet on the plotter to detect register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.



- Set the light pointer to the right position depending on the mark shapes. For more details, refer to "Register Mark Detection Procedure" in the Operation Manual of the main unit.

2


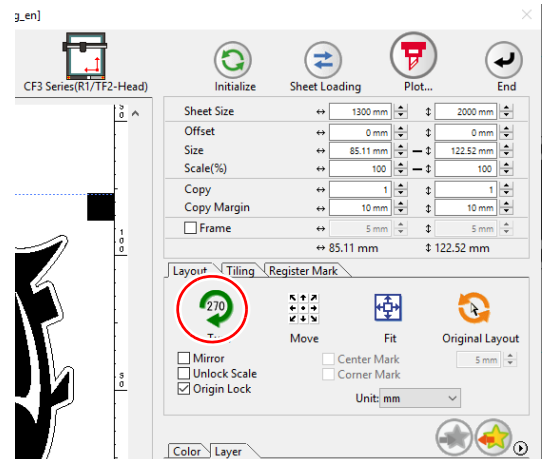
Click [Plot] button in the FineCut menu.



- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click [Plot Selected Path].



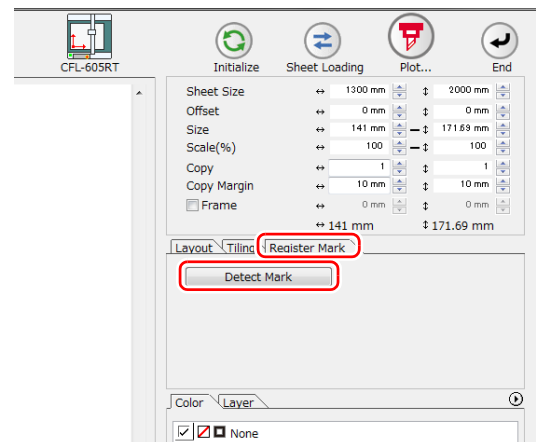
3

Click  (Turn button) to adjust the direction of the image on the plotter with the display of FineCut.

4

Click [Register Mark] tab and click [Detect Mark].

- The register marks are detected.

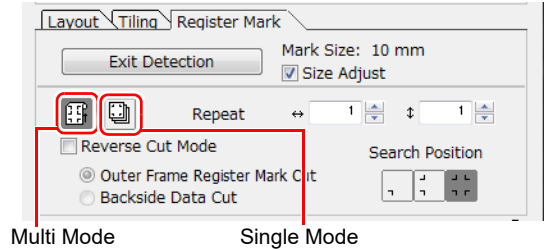


3

Creating Register Marks

5

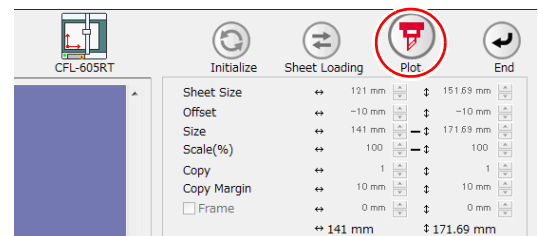
Select the cutting type.



| Item | Description |
|---------------------------------|---|
| Size Adjust | When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media. |
| Multi Mode / Single Mode | <ul style="list-style-type: none"> Multi Mode: Select when cutting plural images printed on one media. Single Mode: Select when cutting sheet with one set of register mark. |
| Repeat | <ul style="list-style-type: none"> If cutting continuously: Input the number of the sheets for cutting continuously. If not cutting continuously: Check both directions are set to "1". |
| Reverse Cut Mode | Check if cutting from the reverse side. Check this when cutting the media that cannot be cut finely from the printed face such as a corrugated board. (☞ P.3-42) |
| Search Position | Select the search position (1/2/4 points). |

6

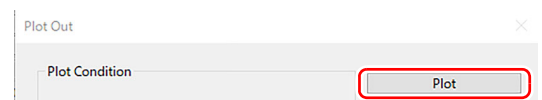
Click  (Plot button).



- To set the plot condition on each color /layer, select [Specify The Plot Condition On Each Color / Layer] on Plot screen and set them. (☞ P.5-14)

7

Click [Plot] to start cutting.



8

(The followings are operations for cutting plural sheets in single mode.)
After cutting the first sheet, put the next sheet on the plotter.

9

Press the **VACUUM** key of the plotter, and select “Resume”.

- Press the END key to cancel continuous cutting.
-

10

Detect register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.
 - Repeat the step 8 to 10 for the number of the sheets.
-

Cutting with Mark Separation

The large data that cannot be cut in one time can be cut in several times.

Important!

- When making register marks, select [Mark Separation]. (P.3-14)
If [Mark Separation] is not selected, the data cannot be cut separately.

1

Select the data separated by [Mark Separation] on Illustrator.

2

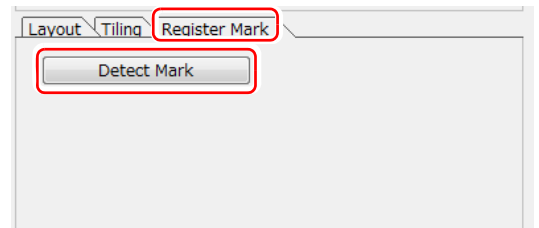
Click [Plot] button in the FineCut menu.



3

Click [Register Mark] tab and click [Detect Mark].

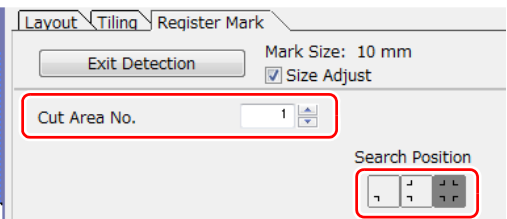
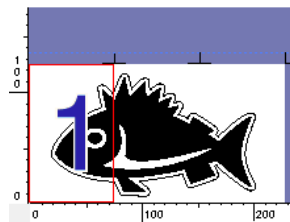
- Register mark is detected.



4

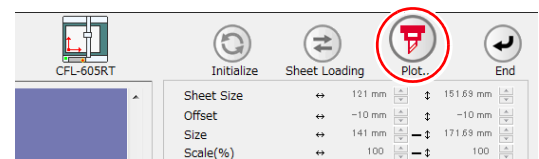
Set the register marks.

- Cut Area No.:
Check it is "1".
- Search Position:
Select the search position of the register mark (1, 2, 4 points).
(Other than the CFX series.)



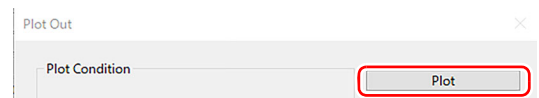
5

Click  (Plot button).



6

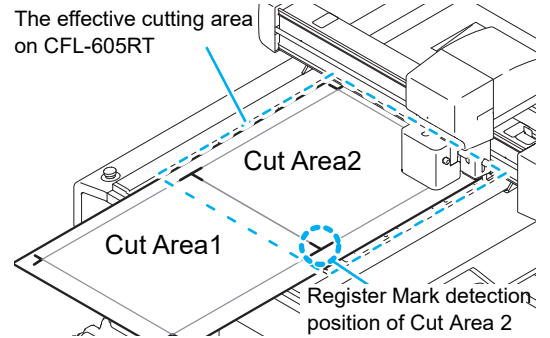
Click [Plot] to start cutting.



7

When cutting is completed, move the media.

- When moving the media, place the all register marks of the cutting area in the effective cutting area of the plotter.



- When cutting with Mark Separation is performed, the plotter displays [***OFF SCALE***], but it does not pose any problem to the operation.

8

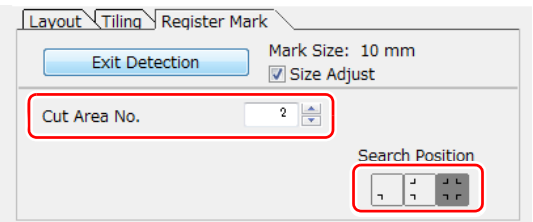
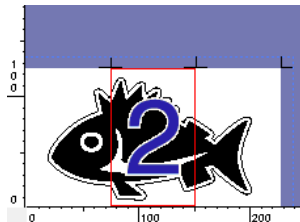
Detect register marks of the cut area “2”.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

9

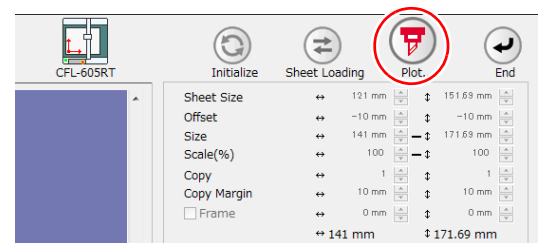
Set the register marks.

- Cut Area No.: Change to “2”.
- Search Position: Select the search position of the register mark (1 / 2 / 4 points). (Other than the CFX series.)



10

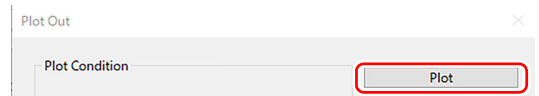
Click  (Plot button).



11

Click [Plot] to start cutting.

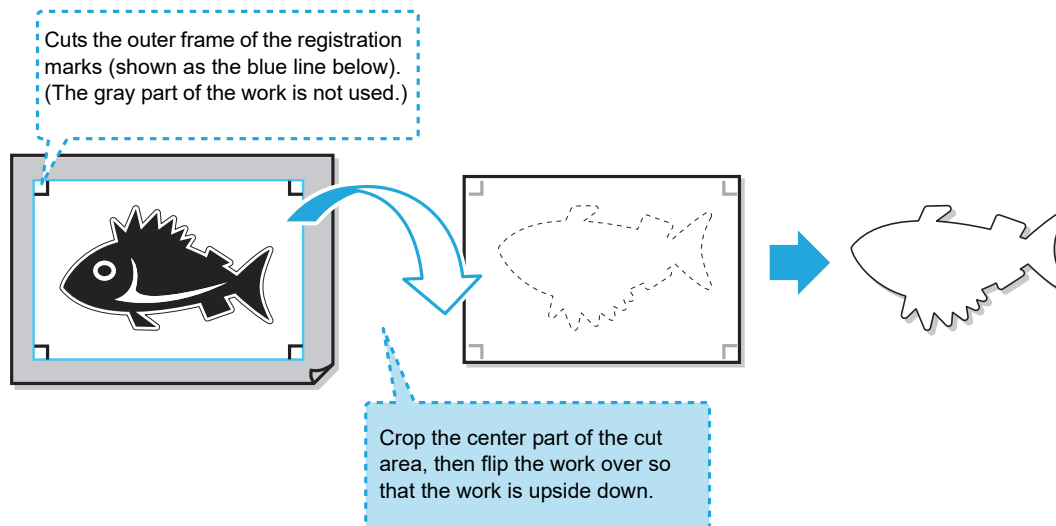
- Repeat the Step 7 to 11 for each of the divided register mark.



Reverse Cut

Images can be cut from the reverse side, not from the printed (front) side.

Use this feature if draw ruled line to the nonprinting side (surface) or the media that is not clean finish when cut from the surface side, such as cardboard.



Important!

- Before performing the reverse cut, set "back side cut offset" of plotter. Setting of "back side cut offset" is always required for the first time reverse cut and resetting by removing "work guide. Every setting is not required. Check the "back side cut offset" before printing, and print so that the margins are larger than or equal to the "back side cut offset" from the edge of the registration marks at all four points.
- To set the "back side cut offset", specify the tool of this offset cut (reads the surface register mark and cut to square).
- For more details, refer to the Operation Manual of the main unit.



You can the "Reverse Cut" function of the CFL-605RT to perform the following operations not usually available with conventional printers.

(1) After performing a front g reverse side process once, you can then perform all following front/reverse-side work by using only the plotter (☞ P.3-52).

(software version 8.5 or later must be used)

- Use of FineCut 8 (software version 8.5 or later) and CFL-605RT simplifies work by allowing you to use only the plotter for the second and all following sheets by performing only the first task by using FineCut 8.

(2) By first continuously performing front-side work, reverse-side work is performed afterward only for the number of sheets required. (☞ P.3-56) (software version 8.6 or later must be used)

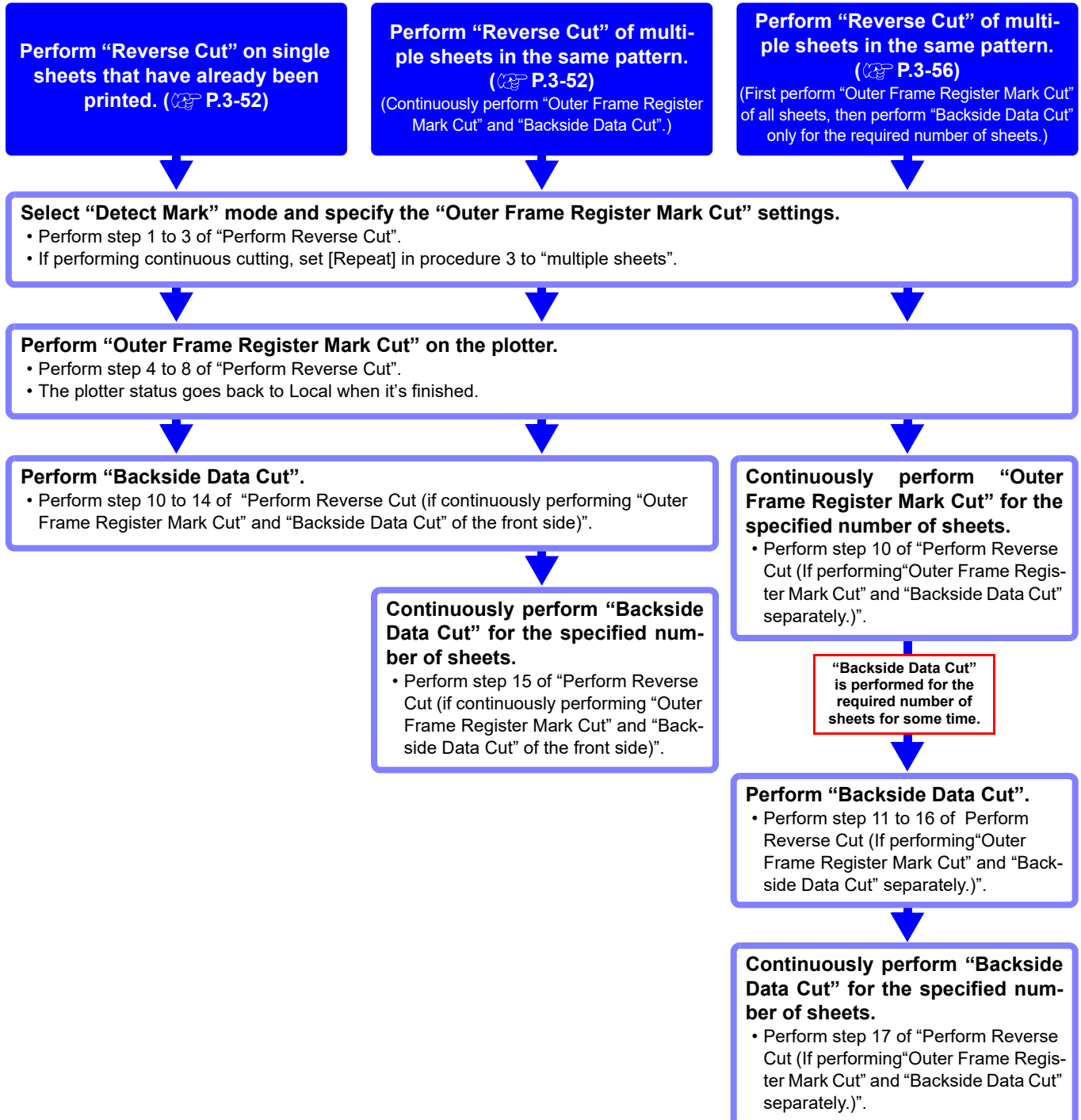
- After first completing front-side work for multiple sheets, reverse-side work can be performed afterwards for only the required number of sheets of those for which front-side work has been completed.

● Reverse Cut Use Application

“Reverse Cut” procedures differ depending on how it is applied. This section provides an overview of the operation procedures.



- For more detailed operating procedures, first be sure to fully understand the overview presented in this section, and then refer to the corresponding procedures on P.3-52 and P.3-56.



● Perform Reverse Cut (if continuously performing “Outer Frame Register Mark Cut” and “Backside Data Cut” of the front side)

1 Click [Plot] button in the FineCut menu.

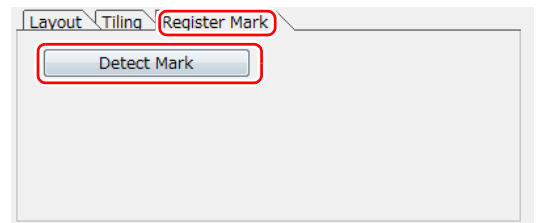


- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click [Plot Selected Path].



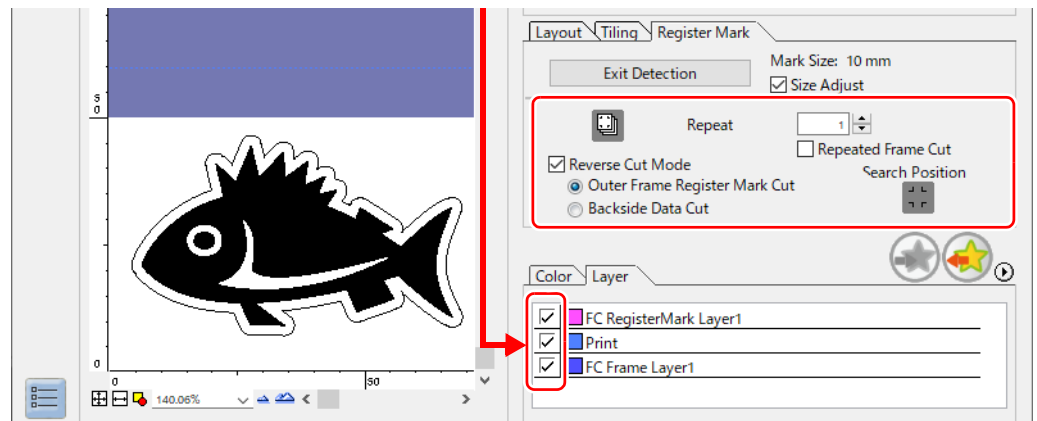
2 Click [Register Mark] tab and click [Detect Mark].

- The register marks are detected.



3 Set the “Outer Frame Register Mark Cut”.

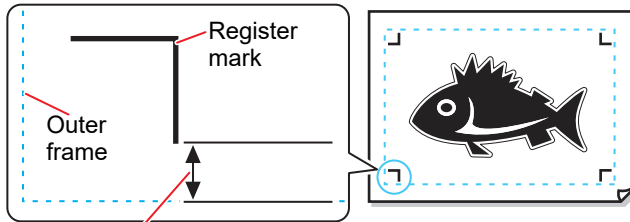
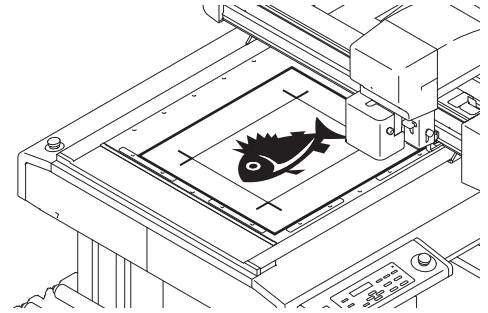
- [Reverse Cut Mode] : Checked
- [Outer Frame Register Mark Cut] : Checked
- [Repeat Frame Cut] : Unchecked
- [Search Position] : Only four points.
- [Repeat] : Input the number of sheets to cut.
- [Multi Mode / Single Mode] : Only “Single Mode”.
- If you select "Outer Frame Register Mark Cut", only the outer frame around the register mark is cut.
When the path in the color/layer has been selected (cut data is displayed on the preview), data is not cut.



4

Set the work to the plotter in the same orientation as the preview display, and detect the lower-left registration mark.

- Make sure that the distance from the edge of the registration mark to the origin of the plotter is larger than the "back side cut offset".



Back side cut offset

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

Important! **Detecting the registration marks**

- The light pointer alignment position and movement procedures during registration mark detection using the plotter are different for the first time, and the second and following times.
- **Light pointer position**
Align the light pointer with the edges of the registration mark by referring to the figure on the right.
- **Moving the light pointer**
After sheet replacement, press [VACUUM], then use the jog key to move the light pointer.

Light pointer position at first detection

Light pointer position at second and following times

●:Light pointer position

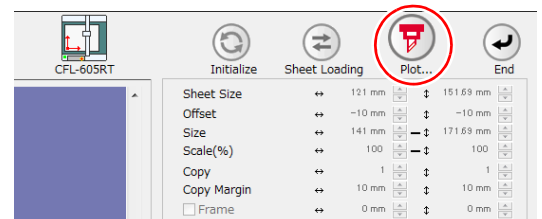
5

Press the **[REMOTE]** key, set the plotter to remote.

- The after 2nd time, press [VACUUM].

6

Click  (Plot button).



7

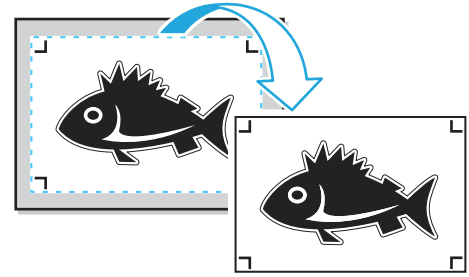
Click **[Outer Frame Cut]** to start cutting.



8

If “Outer Frame Register Mark Cut” is performed, the area around the register marks is cut out in a square.

- Output conditions in the case of cutting this square is set in the plotter side.
- In the following procedure, only the cut media will be used. (The gray part shown on the right illustration is not used.)



9

When the surface cut is completed, automatically becomes to a local mode. The head will be saved in the top right corner.

- Vacuum also turned OFF.

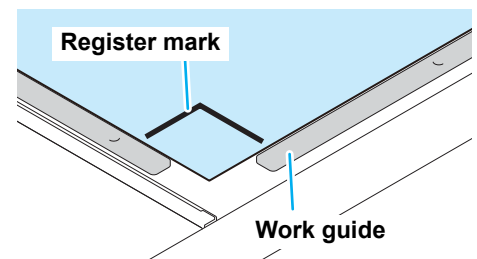
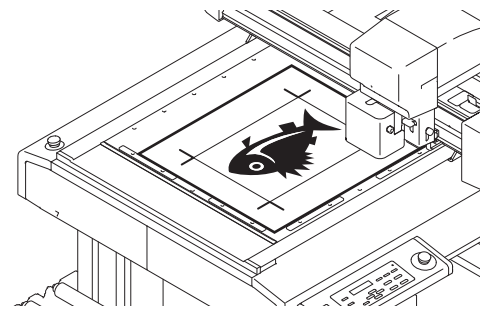
10

Turn the work upside down to be in the same direction as the preview display, then set to the plotter.

- Set the work you cropped in Step 8 to the plotter.
- When cut the reverse, it will be opposite to the printing surface. (Upside down)
- Cut out square with the outer frame register mark cut. At the reverse cut, turn upside down and set by butting the lower left corner against the work guide.



- Be careful for setting thin media, since it may accidentally get into the work guide.



11

Press the **REMOTE** key, set the plotter to remote mode.

12

Set the reverse cutting.

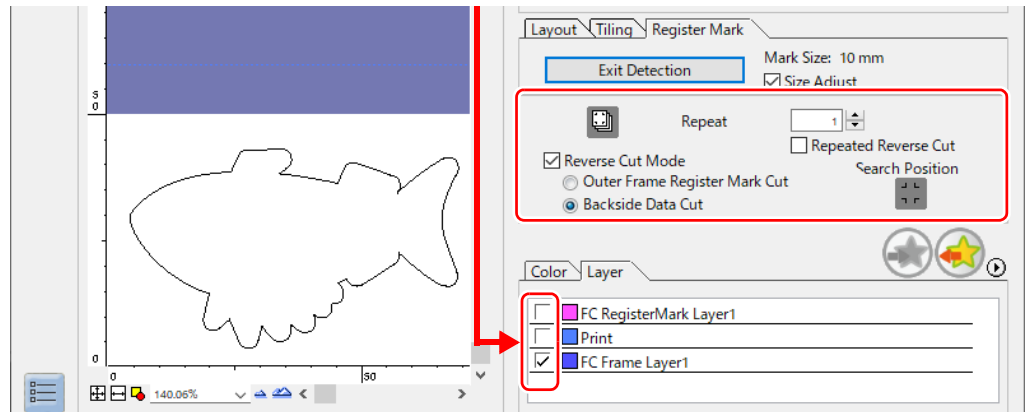
- [Reverse Cut Mode] : Checked
- [Backside Data Cut] : Checked
- [Repeated Reverse Cut] : Unchecked
- [Search Position] : Do not select.

The register mark is not detected when the back side is cut.

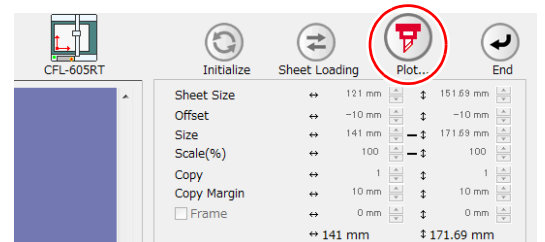
[Repeat]: Input the number of sheets to cut continuously in the [Repeat] field in step 3.

[Multi Mode / Single Mode]: Only "Single Mode".

- Color / Layer cut selection: Select the pass to cut on the reverse. If uncheck the pass, the pass in preview display also will not be displayed.



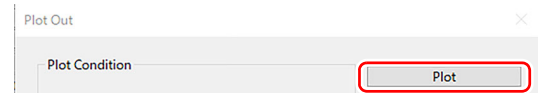
13

Click  (Plot button).

14

Click [Plot] to start cutting.

- When reverse cut mode is use, it becomes only single mode.



15

Repeatedly perform the following step (1) to (3) if continuously cutting only the specified number of sheets of the same data.

- These operations are not necessary if [Repeat] is not set in step 3.
 - (1) Detect the front side registration marks by referring to step 4 and 5, and change to remote mode.
 - (2) Remove the frame by referring to step 8.
 - (3) Perform "Backside Data Cut" by referring to step 10 and 11.
- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

● Perform Reverse Cut (If performing “Outer Frame Register Mark Cut” and “Backside Data Cut” separately.)

1 Click [Plot] button in the FineCut menu.

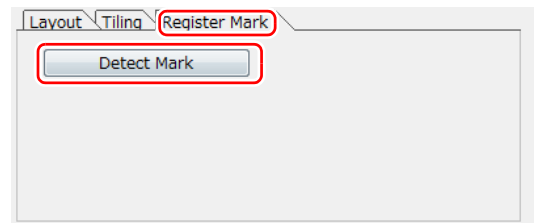


- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click [Plot Selected Path].



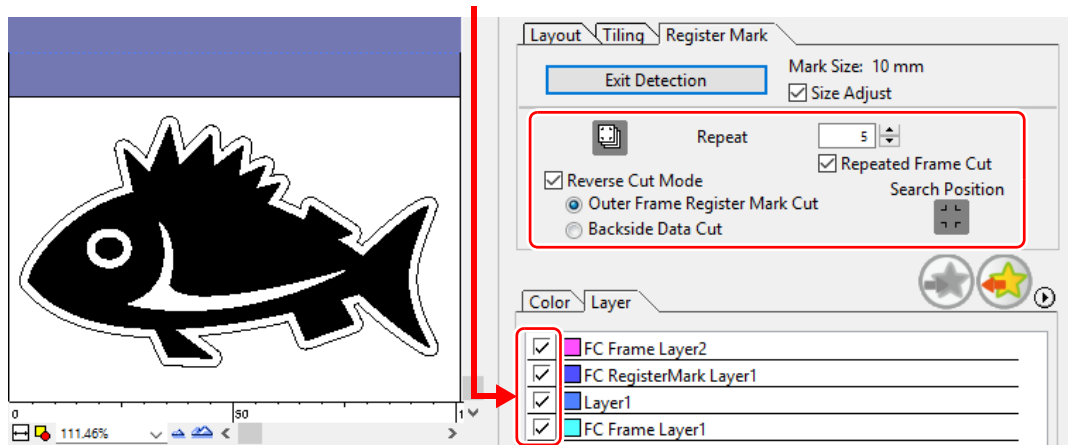
2 Click [Register Mark] tab and click [Detect Mark].

- The register marks are detected.



3 Set the “Outer Frame Register Mark Cut”.

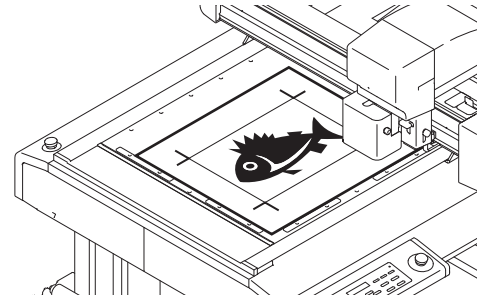
- [Reverse Cut Mode] : Checked
- [Outer Frame Register Mark Cut] : Checked
- [Repeated Frame Cut] : Checked
- [Search Position] : Only four points.
- [Repeat] : Input the number of sheets to cut.
- If you select "Outer Frame Register Mark Cut", only the outer frame around the register mark is cut. When the path in the color/layer has been selected (cut data is displayed on the preview), data is not cut.



4

Set the work to the plotter in the same orientation as the preview display, and detect the lower-left registration mark.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

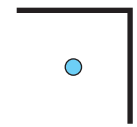


Important!

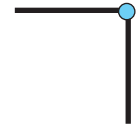
Detecting the registration marks

- The light pointer alignment position and movement procedures during registration mark detection using the plotter are different for the first time, and the second and following times.
- **Light pointer position**
Align the light pointer with the edges of the registration mark by referring to the figure on the right.
- **Moving the light pointer**
After sheet replacement, press [VACUUM], then use the jog key to move the light pointer.

Light pointer position at first detection



Light pointer position at second and following times



●:Light pointer position

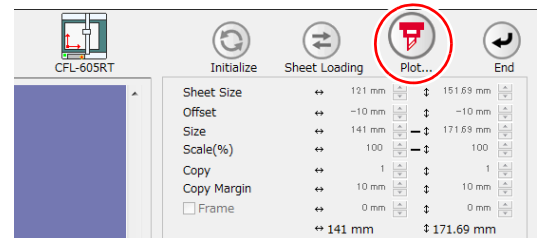
5

Press the **[REMOTE]** key, set the plotter to remote mode.

- The after 2nd time, press [VACUUM].

6

Click  (Plot button).



7

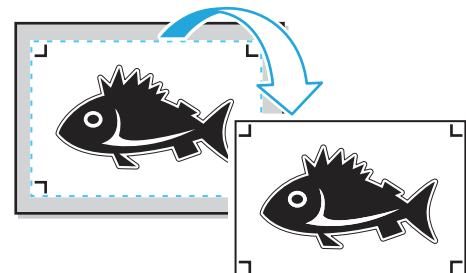
Click [Outer Frame Cut] to start cutting.



8

If “Outer Frame Register Mark Cut” is performed, the area around the register marks is cut out in a square.

- Output conditions in the case of cutting this square is set in the plotter side.
- In the following procedure, only the cut media will be used. (The gray part shown on the right illustration is not used.)



3

Creating Register Marks

9

When the surface cut is completed, automatically becomes to a local mode. The head will be saved in the top right corner.



- Vacuum also turned OFF.
The right message is appear on the display.

SHEET EXCHANGE
VAC: START ED: FIN

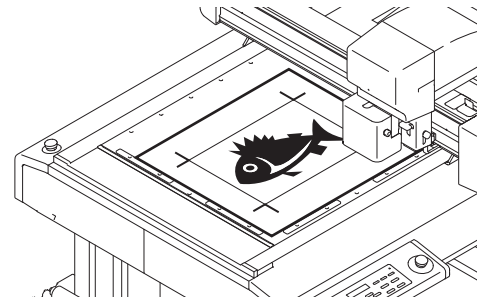
10

Repeatedly perform step 4 and 5 only for the number of sheets specified in step 3 if performing “Outer Frame Register Mark Cut” for multiple sheets of the same data.

- This completes the front side operations.

11

Detect the lower-left registration mark on the front side of the media whose outer frame has been removed, then press **[REMOTE]**.

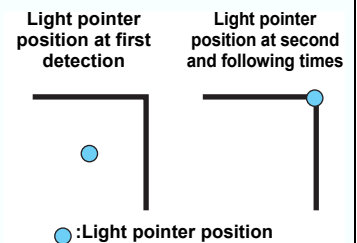


- Set the work you cropped in Step 8 to the plotter.
- Set the work to the plotter in the same orientation as the preview display, and detect the lower-left registration mark.
- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.
- Press the [REMOTE] key, the plotter becomes to a remote mode.

Important!

Detecting the registration marks

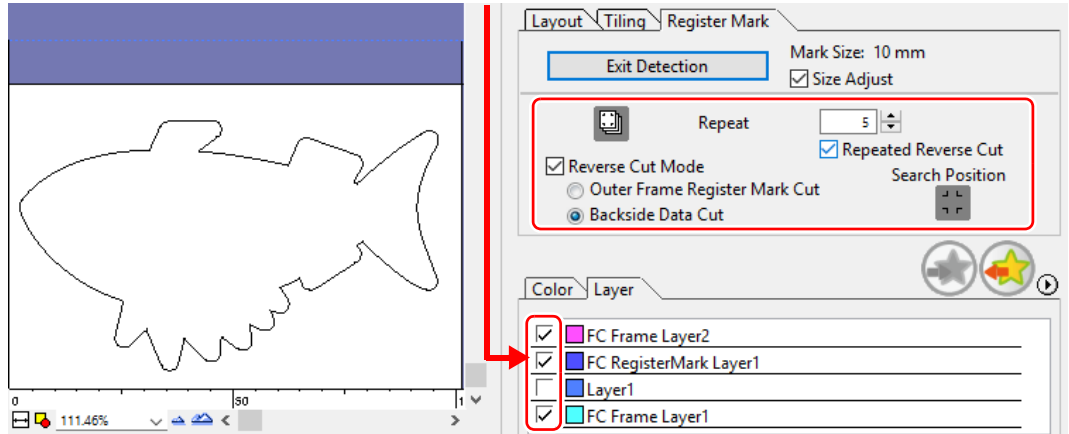
- The light pointer alignment position and movement procedures during registration mark detection using the plotter are different for the first time, and the second and following times.
- **Light pointer position**
Align the light pointer with the edges of the registration mark by referring to the figure on the right.
- **Moving the light pointer**
After sheet replacement, press [VACUUM], then use the jog key to move the light pointer.
- **Switching to remote mode**
Press [ENTER] to change mode.



12

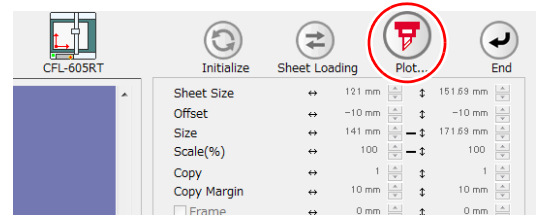
Set the reverse cutting.

- [Reverse Cut Mode] : Checked
 - [Backside Data Cut] : Checked
 - [Repeated Reverse Cut] : Checked
 - [Search Position] : Do not select.
- The register mark is not detected when the back side is cut.
- [Repeat] : Input the number of sheets to cut continuously in the [Repeat] field in step 3
 - Color / Layer cut selection: Select the pass to cut on the reverse. If uncheck the pass, the pass in preview display also will not be displayed.



13

Click  (Plot button).

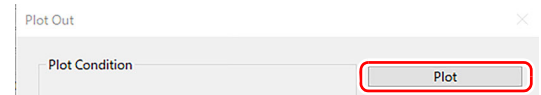


14

Click [Plot] to start cutting.



- When reverse cut mode is use, it becomes only single mode.



15

After registration marks are detected in four locations, operation automatically changes to local mode. The head will be saved in the top right corner.



- Vacuum also turned OFF. The right message is apper on the display.

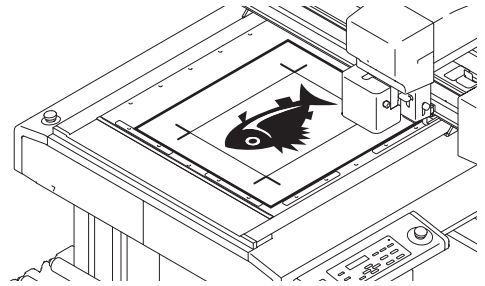
MEDIA REVERSE AND PUSH[REMOTE]

16

Perform the following in order to cut the reverse side.

(1) Turn the work upside down to be in the same direction as the preview display, then set to the plotter.

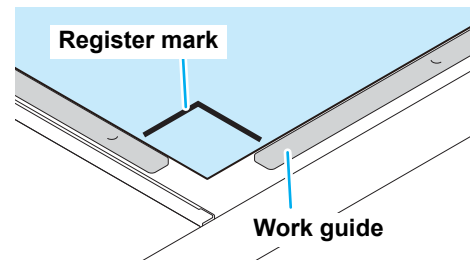
- Set the work whose outer frame has been cut to the plotter.
- When cut the reverse, it will be opposite to the printing surface. (Upside down)
- At the reverse cut, turn upside down and set by butting the lower left corner against the work guide.



(2) Press the [REMOTE] key, the plotter becomes to a remote mode



- Be careful for setting thin media, since it may accidentally get into the work guide.



17

Repeatedly perform the following step (1) to (2) if reverse side cutting only the specified number of sheets of the same data.

- These operations are not necessary if [Repeat] is not set in step 3.
 - (1) Perform front side registration mark detection again (four points) by referring to step 11.
 - (2) Cut the reverse side by referring to step 16.
- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

CF22-1225

Detect register marks, and cutting

1

Set a printed sheet on the plotter to detect register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.



- Set the light pointer to the right position depending on the mark shapes. For more details, refer to "Register Mark Detection Procedure" in the Operation Manual of the main unit.

2


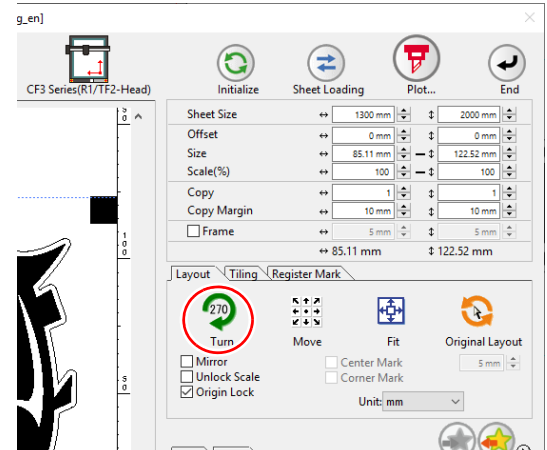
Click [Plot] button in the FineCut menu.



- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click [Plot Selected Path].



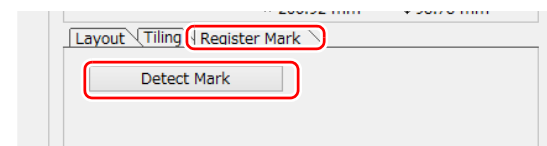
3

Click  (Turn button) to adjust the direction of the image on the plotter with the display of FineCut.

4

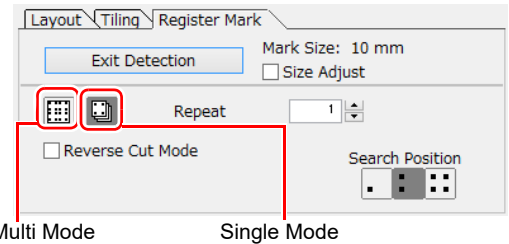
Click [Register Mark] tab and click [Detect Mark].

- The register marks are detected.



3

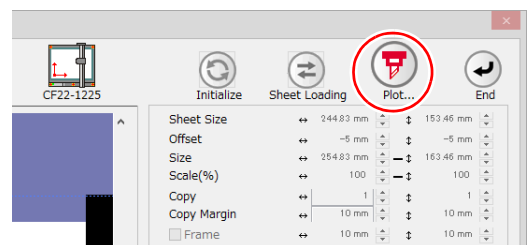
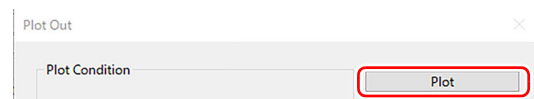
Creating Register Marks

5**Select the cutting type.**

| Item | Description |
|---------------------------------|---|
| Size Adjust | When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media. |
| Multi Mode / Single Mode | <ul style="list-style-type: none"> • Multi Mode: Select when cutting plural images printed on one media. • Single Mode: Select when cutting sheet with one set of register mark. |
| Repeat | <ul style="list-style-type: none"> • If cutting continuously: Input the number of the sheets for cutting continuously. • If not cutting continuously: Check both directions are set to "1". |
| Reverse Cut Mode | Check if cutting from the reverse side. Check this when cutting the media that cannot be cut finely from the printed face such as a corrugated board. (☞ P.3-65) |
| Search Position | Select the search position (1/2/4 points). |

6**Click  (Plot button).**

- To set the plot condition on each color /layer, select [Specify The Plot Condition On Each Color / Layer] on Plot screen and set them. (☞ P.5-14)

**7****Click [Plot] to start cutting.****8****(The following operations are applied only for cutting multiple sheets in single cut mode.)****Use the plotter panel for operations.**

- Follow the instructions displayed on the panel.
- For more details, refer to the Operation Manual of the main unit.

Cutting with Mark Separation

The large data that cannot be cut in one time can be cut in several times.

Important!

- When making register marks, select [Mark Separation]. (P.3-16)
If [Mark Separation] is not selected, the data cannot be cut separately.

1

Select the data separated by [Mark Separation] on Illustrator.

2

Click [Plot] button in the FineCut menu.



3

Click [Register Mark] tab and click [Detect Mark].

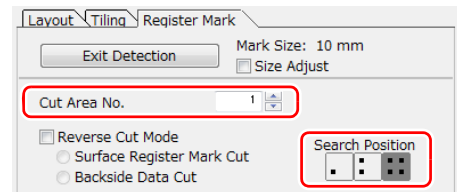
- The register marks are detected.



4

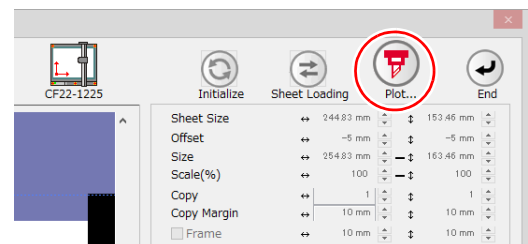
Set the register marks.

- Cut Area No.:
Check it is "1".
- Search Position:
Select the search position of the register mark (1 / 2 / 4 points).



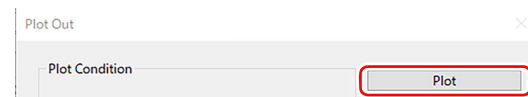
5

Click  (Plot button).



6

Click [Plot] to start cutting.



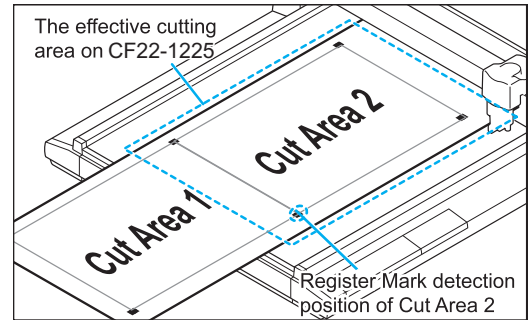
3

Creating Register Marks

7

When cutting is completed, move the media.

- When moving the media, place the all register marks of the cutting area in the effective cutting area of the plotter.



- When cutting with Mark Separation is performed, the plotter displays [***OFF SCALE***], but it does not pose any problem to the operation.

8

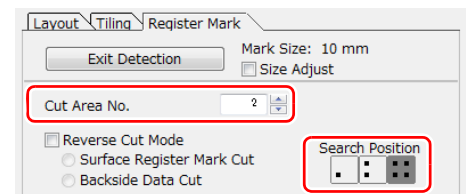
Detect register marks of the cut area “2”.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

9

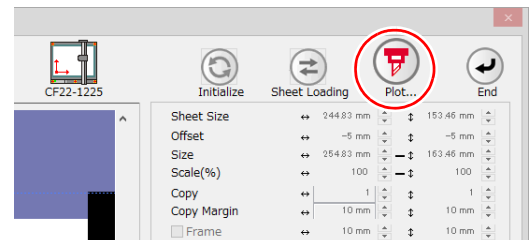
Set the register marks.

- Cut Area No.:
Change to “2”.
- Search Position:
Select the search position of the register mark (1 / 2 / 4 points).



10

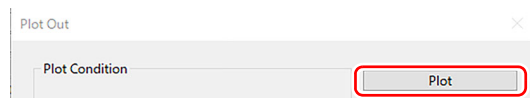
Click (Plot button).



11

Click [Plot] to start cutting.

- Repeat the Step 7 to 11 for each of the divided register mark.



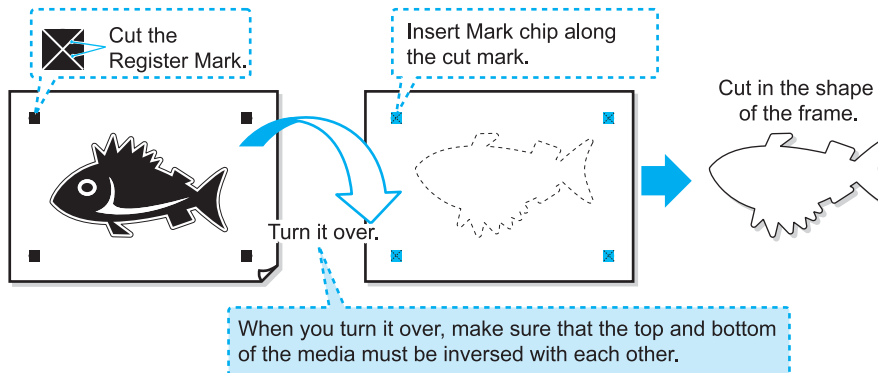
Cutting from the reverse side

Images can be cut from the reverse side, not from the printed (front) side.

Use this function when the media (such as cardboard) is not finished fine by cutting from the front side.

Important!

- When using Reverse Cut Mode, set the register mark size adjusting to the mark chip used. If the register mark is too small, you may not be able to insert the mark chip.
- Use the media of 3 mm or more thickness.



1


Turn the printed face up, set the media to the plotter, then detect the register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

2

Click [Plot] button in the FineCut menu.



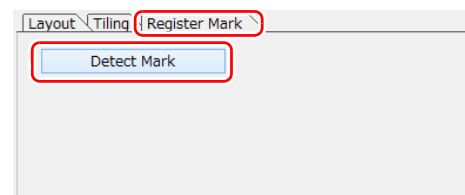
- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click  [Plot Selected Path].



3

Click [Register Mark] tab and click [Detect Mark].

- The register marks are detected.

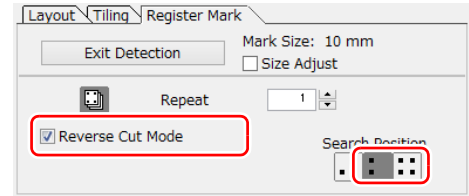


3

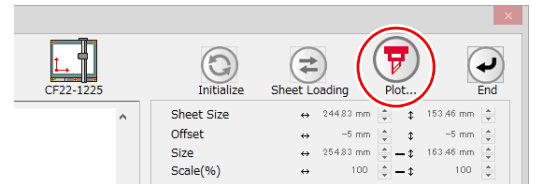
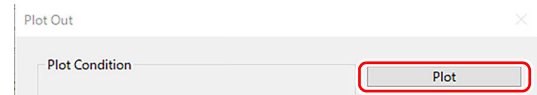
Creating Register Marks

4**Set the reverse cutting.**

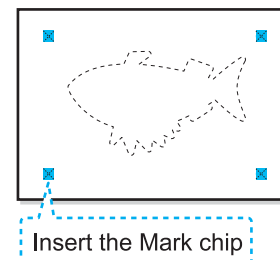
- Reverse Cut Mode: Check this.
- Search Position:
Select the search position of the register mark (2 / 4 points).

**Important!**

- Before selecting [Surface Register Mark Cut], make sure that there is no mark chip on the position of the register mark. Cutting register marks with the mark chip set is very dangerous because the mark chip could come off by the cutter.

5**Click  (Plot button).****6****Click [Plot] to start cutting.****7****Turn back the media, and set it to the plotter.****8****Insert the mark chips using the cut marks.**

- Use the mark chips in place of the register marks.

**9****Detect register marks.**

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

10**Start reverse cutting.
Use the plotter panel for subsequent operations.**

- Follow the instructions displayed on the panel.
- For more details, refer to the Operation Manual of the main unit.

CFX series (excluding free register marks)

Detect register marks, and cutting

1

Set the printed sheet on the plotter to detect the register marks.

For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.




- Set the light pointer to the right position depending on the mark shapes. For more details, refer to "Register Mark Detection Procedure" in the Operation Manual of the main unit.

2

Click the [Plot] button in the Fine-Cut menu.

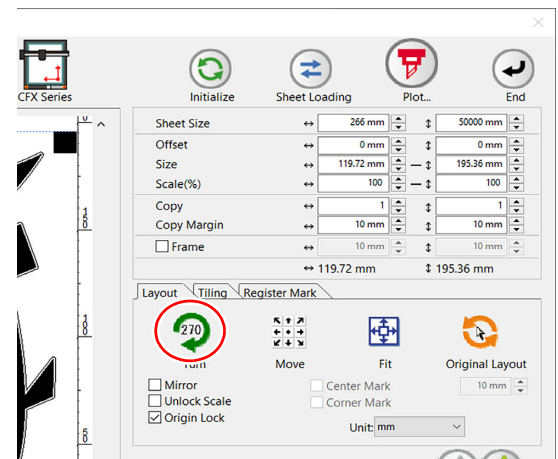


- If there are any objects on Illustrator that are not to be cut, select only the necessary objects and the register mark data, and then click the  [Plot Selected Path] button.



3

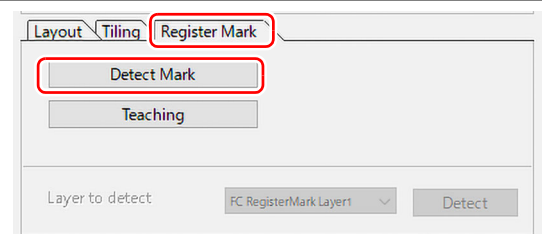
Click (Turn button) to match the direction of the image on the plotter with the image displayed in FineCut.



4

Click the [Register Mark] tab and then click [Detect Mark].

- The register marks are detected.

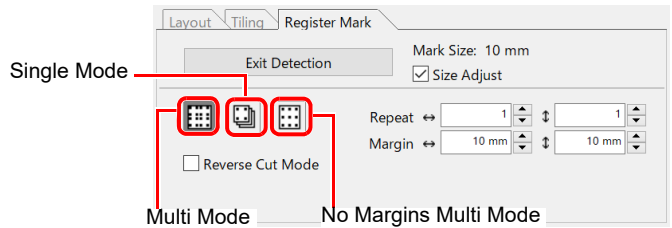


3

Creating Register Marks

5

Select the cutting type.



| Item | Description |
|--|--|
| Size Adjust | When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media. |
| Multi Mode/Single Mode/ No Margins Multi Mode | <ul style="list-style-type: none"> • Multi Mode: Select this when cutting multiple images printed continuously on a single piece of media. • Single Mode: Select this when cutting a sheet with one set of register marks. • No Margins Multi Mode^{*1}: Select this when cutting an image with register marks printed continuously on a single piece of media without margins. When copying an image with register marks in RasterLink7, place the next register marks so that they completely overlap each other. |
| Repeat | <ul style="list-style-type: none"> • If cutting continuously: Input the number of sheets for cutting continuously. • If not cutting continuously: Confirm that it is set to "1". |
| Margin | In Multi Mode, specify margins between repeated sets of register marks. |
| Reverse Cut Mode | Check when cutting from the reverse side. Use this function when cutting media (such as cardboard) that cannot be cleanly cut from the front side. (☞ P.3-70) |

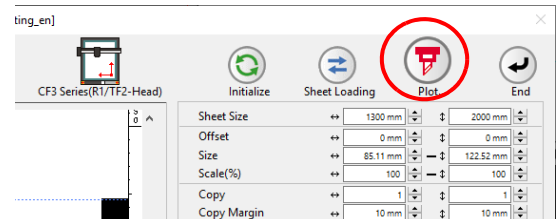
*1. RasterLink7 Ver3.1.0 or later is required to print with no margins. Also, this function is available only when the register mark shape is [■].

6

Click (Plot button).

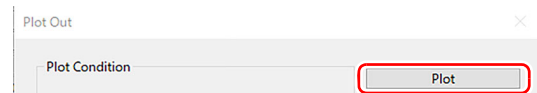


- To set the plot conditions on each color / layer, select [Specify The Plot Condition On Each Color / Layer] on the "Plot" screen. (☞ P.5-14)



7

Click [Plot] to start cutting.



8

(The following shows the case of cutting multiple sheets in single mode.)

After cutting the first sheet, put the next sheet on the plotter.

9

Press the **VACUUM** key of the plotter, and select "Resume".

- Press the [CE] key to cancel continuous cutting.

10

Detect register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.
- Repeat the step 8 to 10 for the number of the sheets.

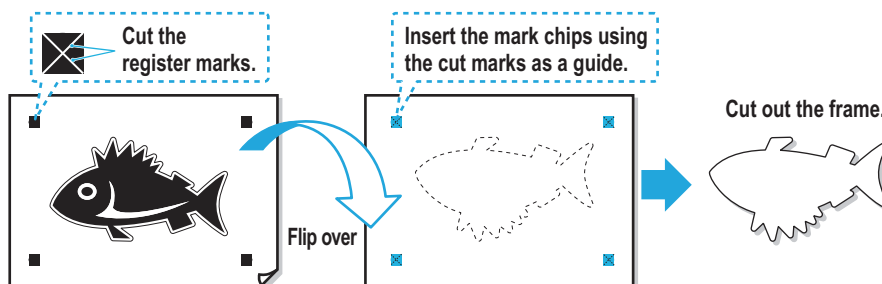
Reverse Cut

Images can be cut from the reverse side, not from the printed (front) side.
Use this function when cutting media (such as cardboard) that cannot be cleanly cut from the front side.

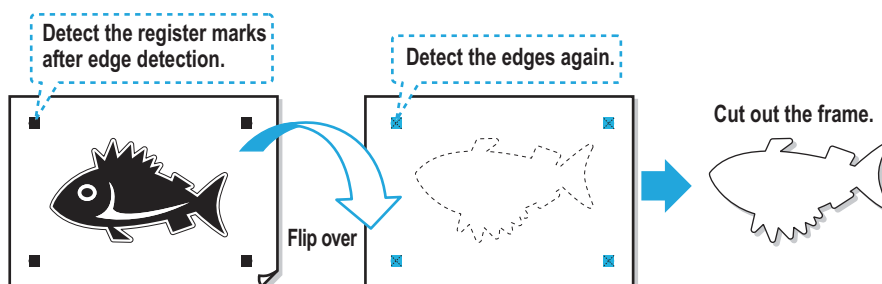
Important!

- When using mark chips, use media with a thickness of at least 3 mm.
- If the CFX series is selected, this function cannot be used when using the free register marks.

- When using mark chips



- When using the edge detection function



● When using mark chips

1


Turn the printed face up, set the media to the plotter, then detect the register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

2

Click the [Plot] button in the Fine-Cut menu.



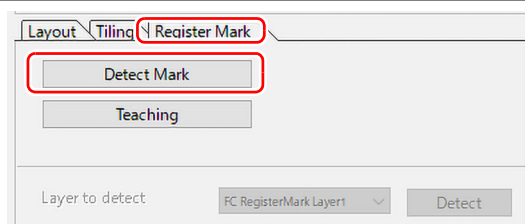
- If there are any objects on Illustrator that are not to be cut, select only the necessary objects and the register mark data, and then click the  [Plot Selected Path] button.



3

Click the [Register Mark] tab and then click [Detect Mark].

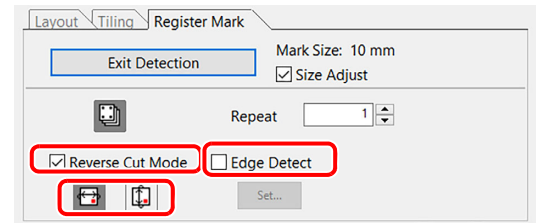
- The register marks are detected.



4

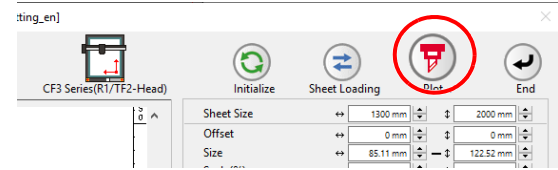
Set the reverse cutting.

- Reverse Cut Mode:
Check this.
- Edge Detect:
Uncheck this.
- Flip direction
Select the direction to flip it over to the reverse side.

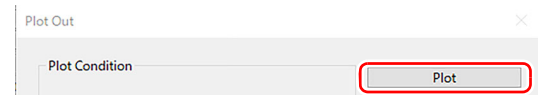
**Important!**

- Before outputting, make sure that there are no mark chips at the register mark positions. Cutting register marks with a mark chip set is very dangerous because the mark chip could come off by the cutter.

5

Click  (Plot button).

6

Click [Plot] to start cutting.

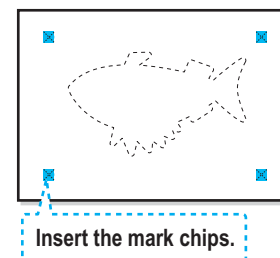
7

Flip the media according to the specified flip direction and then set it on the plotter.

8

Insert the mark chips using the cut marks as a guide.

- Use the mark chips in place of the register marks.



9

Detect the register marks.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.

10

**Start reverse cutting.
Use the plotter panel for subsequent operations.**

- Follow the instructions displayed on the panel.
- For more details, refer to the Operation Manual of the main unit.


3

Creating Register Marks

● When using the edge detection function

1 Click the [Plot] button in the FineCut menu.

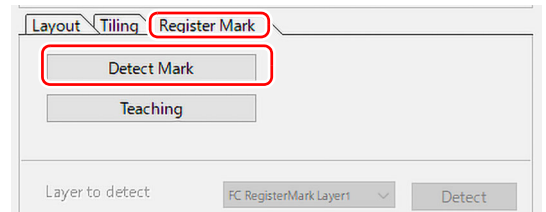


- If there are any objects on Illustrator that are not to be cut, select only the necessary objects and the register mark data, and then click the  [Plot Selected Path] button.



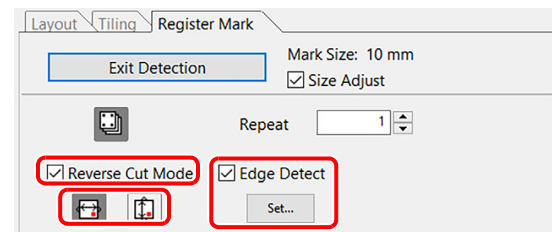
2 Click the [Register Mark] tab and then click [Detect Mark].

- The register marks are detected.

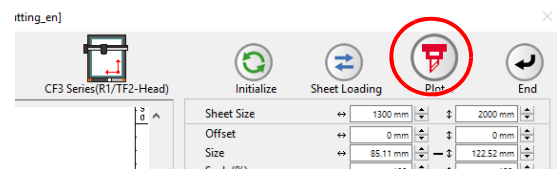


3 Set the reverse cutting.

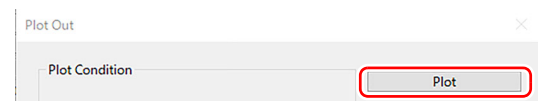
- Reverse Cut Mode: Check this.
- Edge Detect: Check this and then click the [Set...] button to configure the edge detection settings. (P.5-51)
- Flip direction: Select the direction to flip it over to the reverse side.



4 Click  (Plot button).



5 Click [Plot].



6 When [Edge Detect] is displayed on the main unit panel, align the origin of the plotter to the right bottom of the media and then press the [Enter] key.

7

After following the instructions on the panel to detect the register marks, flip over the media and set it on the plotter.

8

Position the pointer over the corner of the media and then press the [Enter] key.

- For horizontal reverse: Left bottom
- For vertical reverse: Right top

9

Cutting starts after edge detection is complete.

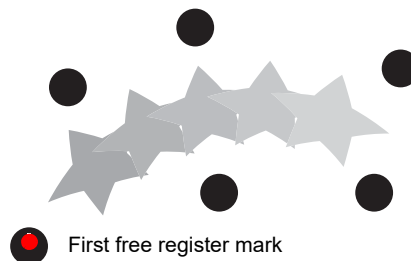
CFX series (free register marks)

Detect register marks, and cutting

1

Set the printed sheet on the plotter to detect the register marks.

- Perform the register mark detection procedure to detect the first free register mark.
- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.




- Place the light pointer at the desired position.

2

Click [Plot] button in the FineCut menu.



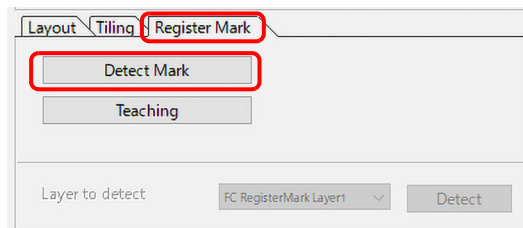
- If there are any objects on Illustrator that are not to be cut, select only the necessary objects and the register mark data, and then click the  [Plot Selected Path] button.



3

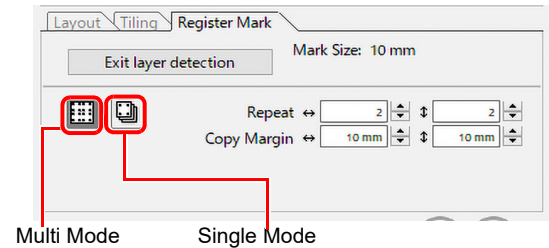
Click [Register Mark] tab and click [Detect Mark].

- The register marks are detected.



4

Select the cutting type.



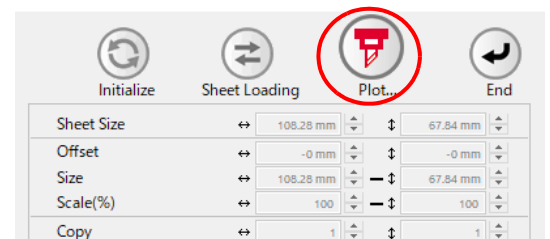
| Item | Description |
|---------------------------------|--|
| Multi Mode / Single Mode | <ul style="list-style-type: none"> • Multi Mode: Select when cutting plural images printed on one media. • Single Mode: Select when cutting sheet with one set of register mark. |
| Repeat | <ul style="list-style-type: none"> • If cutting continuously: Set the number of continuous cuts. • If not cutting continuously: Confirm that both the vertical and horizontal directions are set to "1". |
| Margin | Sets the margins for register mark sets when multi mode is selected. <ul style="list-style-type: none"> • Range: \pm data size |

5

Click  (Plot button).

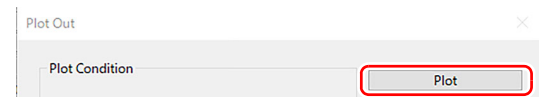


- To set the plot condition on each color /layer, select [Specify The Plot Condition On Each Color / Layer] on Plot screen and set them. (P.5-14)



6

Click [Plot] to start cutting.



7

(The followings are operations for cutting plural sheets in single mode.)

After cutting the first sheet, put the next sheet on the plotter.

8

Once the light pointer is aligned with the register mark origin, press the [ENTER] key.

- Press the [END/POWER] key to cancel continuous cutting.

9

Perform register mark detection using the plotter.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.
- Repeat the step 8 to 10 for the number of the sheets.

3


Creating Register Marks

CFX series (teaching)


Teaching cut

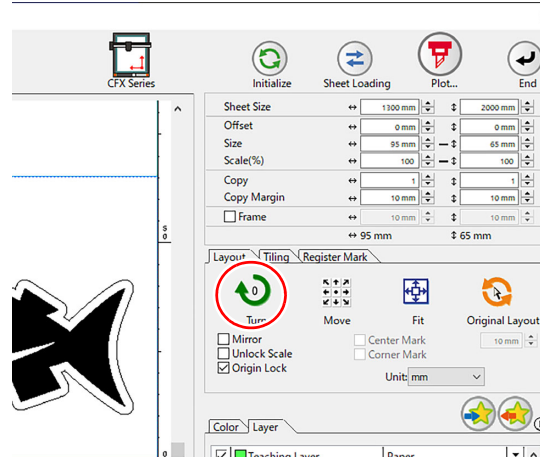
1 Click [Plot] button in the FineCut menu.



- If there are any objects on Illustrator that are not to be cut, select only the necessary objects and the register mark data, and then click the  [Plot Selected Path] button.



2 Click  (Turn button) to match the direction of the image on the plotter with the image displayed in FineCut.



3 Click the [Layer] tab, then uncheck all of the layers except the layer containing rectangle.

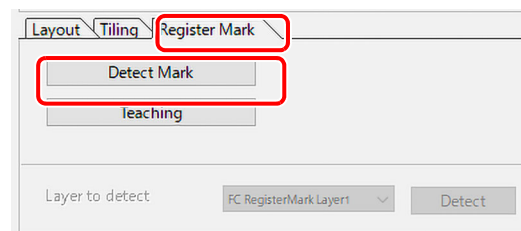
Important!

- Clicking the [Teaching] button in the next step with layers other than the layer containing the rectangle also checked may cause misalignment.



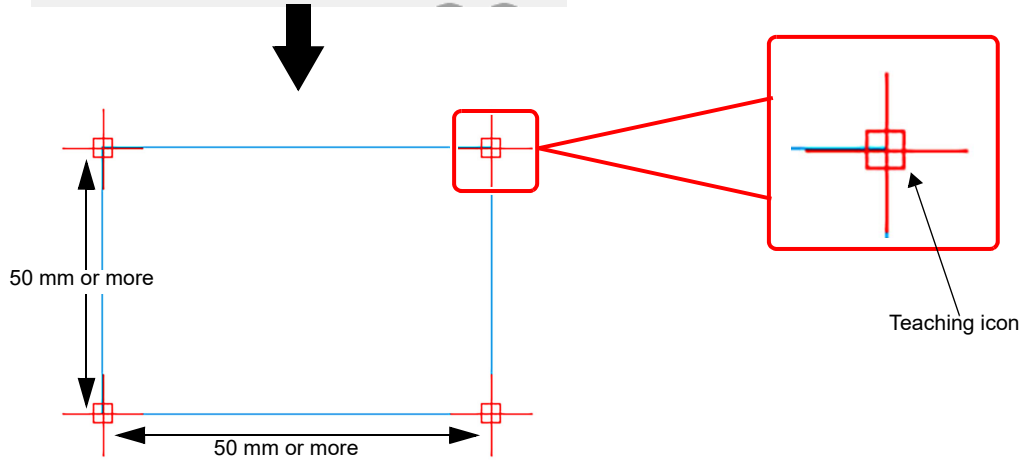
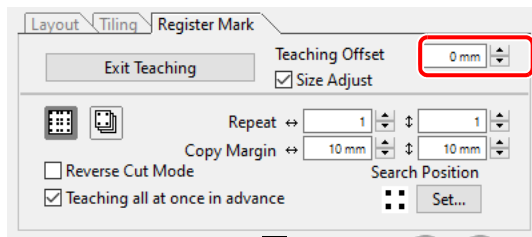
- The [Color] tab can also be used to color code data instead of layers.

4 Click the [Register Mark] tab, then click [Teaching].



5

Enter the [Teaching Offset] value to align the red teaching icon shown in the preview with the rectangle intersections.



- Set the distance between teaching icons to be 50 mm or more.

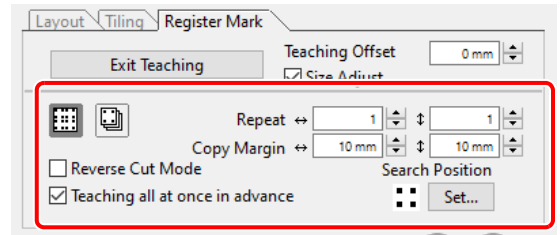
6

Select the checkbox for the cutting data layer, and uncheck the rectangle layer.

3

7

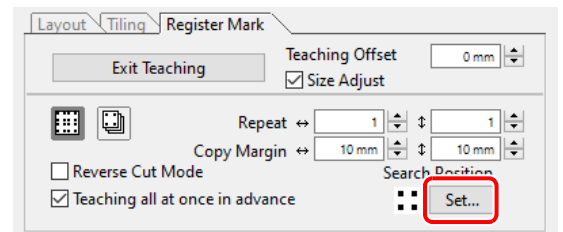
Set the other register marks in the same way.



| Item | Description |
|--|--|
| Size Adjust | When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media. |
| Multi Mode/Single Mode | <ul style="list-style-type: none"> • Multi Mode: Select this when cutting multiple images printed continuously on a single piece of media. • Single Mode: Select this when cutting a sheet with one set of register marks. |
| Repeat | <ul style="list-style-type: none"> • If cutting continuously: Input the number of sheets for cutting continuously. • If not cutting continuously: Confirm that it is set to "1". |
| Margin | In Multi Mode, specify margins between repeated sets of register marks. |
| Reverse Cut Mode | Check when cutting from the reverse side. Use this function when cutting media (such as cardboard) that cannot be cleanly cut from the front side. (P.3-70) |
| Teaching all at once in advance | Displayed only in multi-mode. When you check it, all items are cut after teaching. |
| Teaching Detection Point | Specify the teaching detection point. Select and specify any of the corners. |

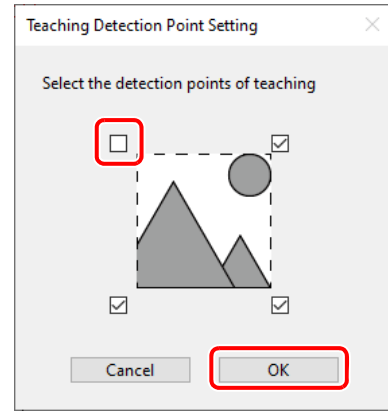
● About [Teaching Detection Point]

1. Click [Set...].

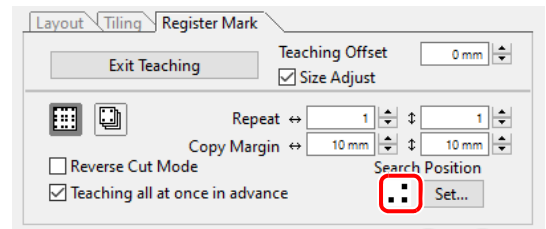


2. Place a check mark only in the corners you want to detect in teaching and then click [OK]. (In the figure to the right, the check mark is removed so that detection is not performed in the upper left corner.)

- The default is 4-point detection.
- For CFX, the lower right (origin) cannot be unchecked.

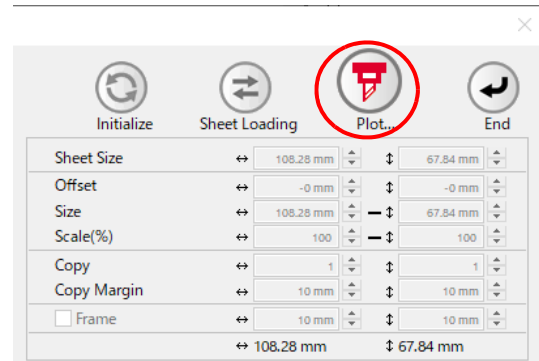


- The corners where detection is performed are indicated by the icon.



8

Click  (plot button).

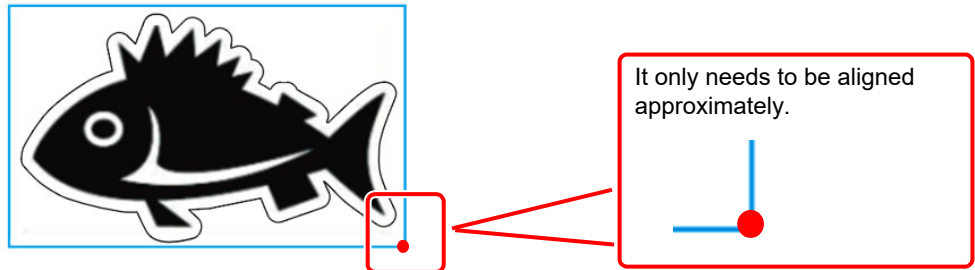


9

Select [Mark Origin Detection] on the Main unit panel .

●[Mark Origin Detection]

1. Press **▲▼▶◀** on the local mode screen.
2. Select [Mark Origin Detection], then press the [ENTER] key.
3. Press **▲▼▶◀** to move the light pointer to the lower right corner of the rectangle.

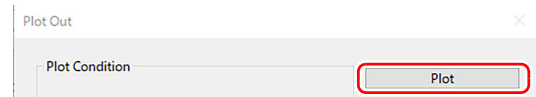


4. Once the light pointer is aligned, press the [ENTER] key.
 - The [Register mark shape specification] window appears.
5. Select [Teaching] in **▲▼** , then press the [ENTER] key.

10

Click [Plot].

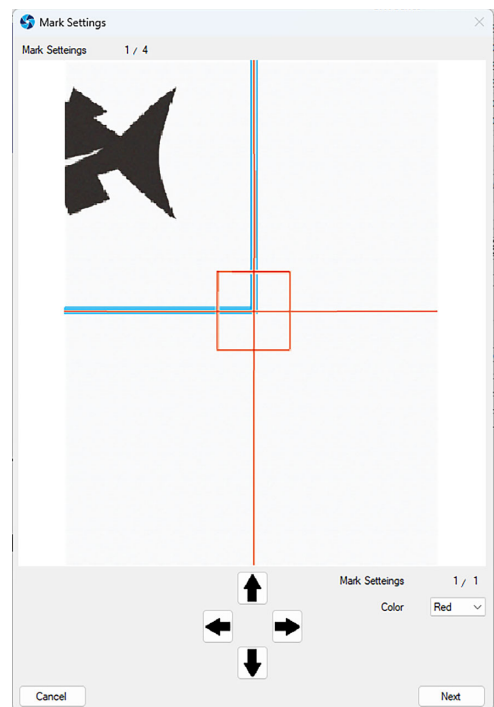
- The rectangle on the plotter are displayed on the OBSCURAS screen.



11

Move the mouse cursor to the position specified in Step 7, then click.

- Important!**
- If the click position is not accurate, the accuracy of the cut may be affected.



12

Repeat Step 13 for the number of times specified in [Repeat] in Step 9 to cut the printed positions.

CFX series (round register marks)

Detect register marks, and cutting

Important!


The conditions for detectable register marks are as follows:

- The shape must be round.
- The diameter must be in the range of 3 to 12 mm.
- There must be at least 2.
- All register marks must be in the same layer.
- No data other than the register marks must be placed on the same layer as the register marks.

1

Click the [Plot] button in the FineCut menu.



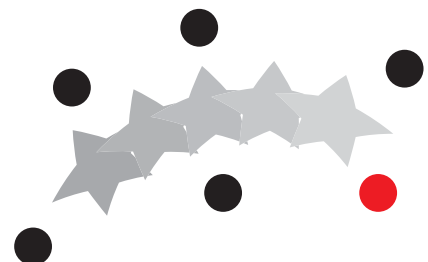
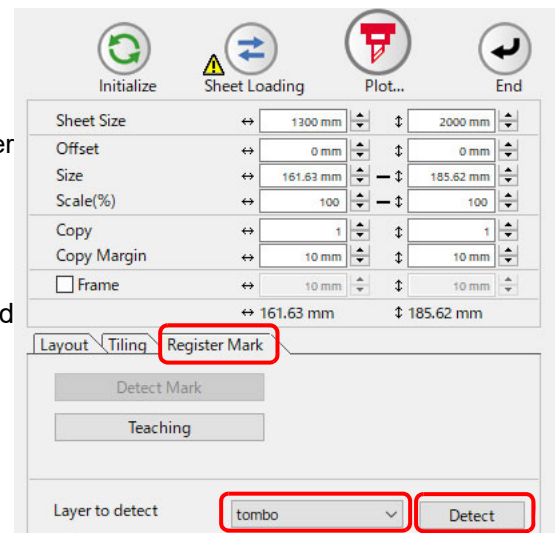
- If there are any objects on Illustrator that are not to be cut, select only the necessary objects and the register mark data, and then click the  [Plot Selected Path] button.



2

Click the [Register Mark] tab, select a register mark layer, and click [Detect].

1. From [Layer to detect], select the layer containing the register marks.
2. Click the [Detect] button.
 - The register marks are detected.
 - The detected register mark that will be used as the origin is displayed in red.

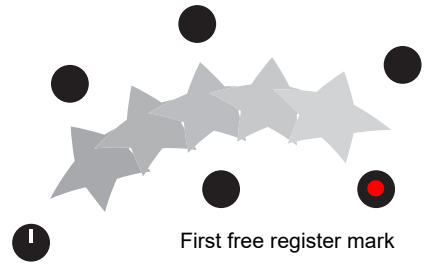


3

Creating Register Marks

3

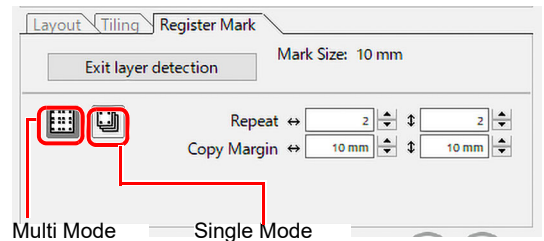
Put the printed sheet on the plotter and set the origin.



- Move the light pointer to the center of the origin (red circle) dragonfly displayed on FineCut.

4

Select the cutting type.



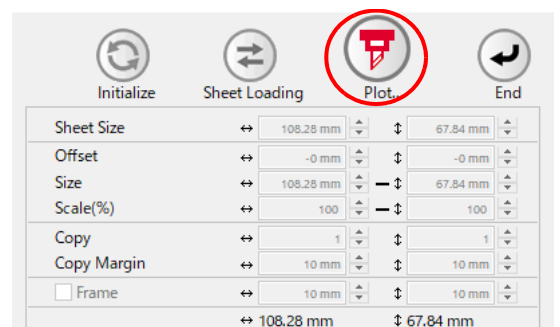
| Item | Description |
|---------------------------------|---|
| Multi Mode / Single Mode | <ul style="list-style-type: none"> • Multi Mode: Select this when cutting multiple images printed continuously on a single piece of media. • Single Mode: Select this when cutting a sheet with only one set of register marks. |
| Repeat | <ul style="list-style-type: none"> • If cutting continuously: Set the number of continuous cuts. • If not cutting continuously: Confirm that both the vertical and horizontal directions are set to "1". |
| Copy Margin | Set the margins for register mark sets when Multi Mode is selected. <ul style="list-style-type: none"> • Range: ± data size |

5

 Click (Plot button).

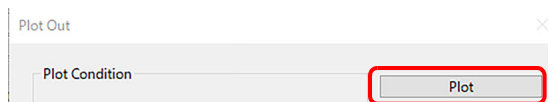


- To set the plot conditions on each color / layer, select [Specify The Plot Condition On Each Color / Layer] on the "Plot" screen. (P.5-14)



6

Click [Plot] to start cutting.



7

(The following shows the case of cutting multiple sheets in single mode.)
After cutting the first sheet, put the next sheet on the plotter.

8

Align the light pointer with the register mark origin aligned in step 3 and press the [ENTER] key.

- Press the [END/POWER] key to cancel continuous cutting.
-

9

Perform register mark detection using the plotter and then perform the cut.

- For more information regarding the procedure of register mark detection, refer to the Operation Manual of the main unit.
 - Repeat steps 7 to 9 for the number of sheets.
-

Trotec Speedy Series

For cutting instructions, see P.4-17 "Outputting to the Trotec laser engraving machines".

Gravotech LS series

For cutting instructions, see P.4-23 "Outputting to a Gravotech laser engraving machine".

DCF-605U MkII (Digital coating machine)

For coating instructions, see P.4-30 "Outputting to a DCF-605PU (Digital coating machine)".

CHAPTER 4

Advanced operations-from FineCut Menu



This section describes the convenient usage from FineCut/Coat menu.



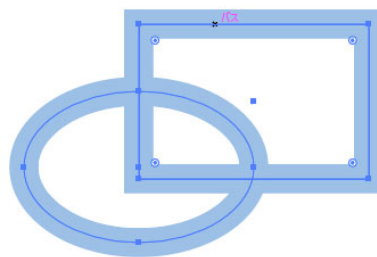
| | |
|--|------|
| Recognizing Stroke Weight and Overlap..... | 4-2 |
| Trapping | 4-3 |
| Joining Paths | 4-4 |
| Making a Precut Line around an Object | 4-5 |
| Creating Shadow / Edge..... | 4-6 |
| Importing / Outputting Plot File | 4-8 |
| Extracting the Outline | 4-10 |
| Outputting to RasterLink..... | 4-12 |
| Outputting to the Trotec laser engraving machines... | 4-17 |
| Outputting to a Gravotech laser engraving machine . | 4-23 |
| Outputting to a DCF-605PU (Digital coating machine) | 4-30 |
| Setting Output Condition | 4-38 |
| Separating and Cutting Lines (CF, DC, CF2, CF3 (except M-Head), /CFX (except R10-Head)series,CF22-1225 and CFL-605RT)..... | 4-40 |
| Perforation Cut Setting | 4-45 |

Recognizing Stroke Weight and Overlap

To cut objects in the same shape as displayed on the monitor, recognize the stroke weight and overlap of objects.

1

Select an object on Illustrator.



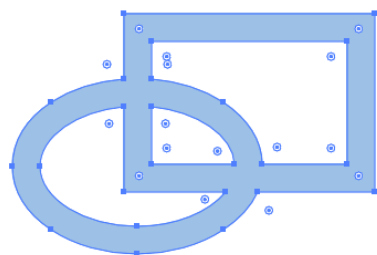
2

Click [Recognize Stroke Weight And Overlap] button in the FineCut menu.



3

The stroke weight and overlap are recognized.



Trapping

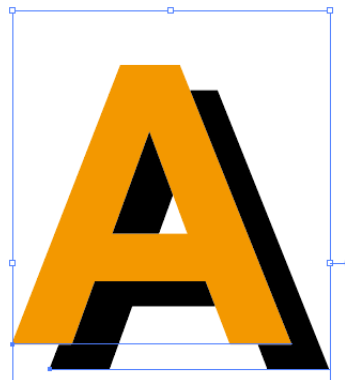
On the overlapping objects, a gap may be generated where the colors are overlapping. Trapping can prevent the gap.

Important!

- When trapping complicated figures, error or Illustrator crash may occur and the data may be broken. Save the data first, and then trap.
- When using DCF-605PU (Digital coating machine), this function cannot be used.

1

Select an object on Illustrator.



2

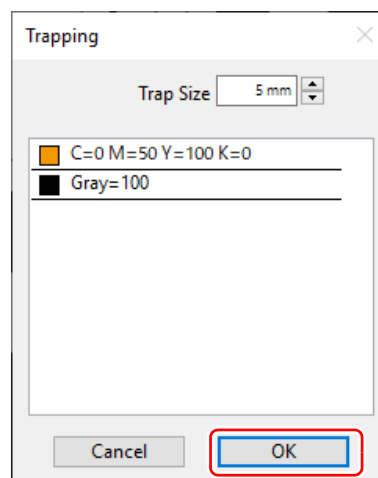
Click [Trapping] button in the FineCut menu.



3

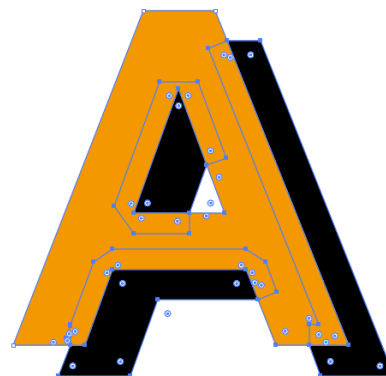
Set the trap size and overlapping order.

- Click [OK] after setting.
- Drag the list to change the overlapping order.



4

Overlap space is created in the specified size.



4

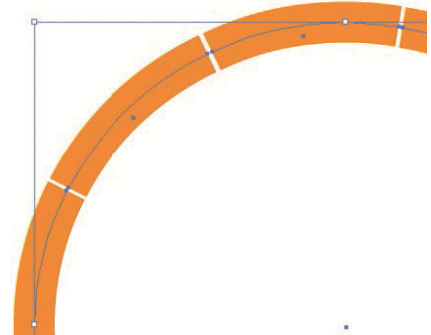
Advanced operations - from FineCut Menu

Joining Paths

Corner points of an open path (the start and the end point is not connected) can be joined. When reading DXF data into Illustrator, some paths that look connected are separated into several lines. When using the CF3 (M-head) / CFX series (R10-head), it cannot cut while considering the end mill diameter. Joining paths solves these problems.

1

Select the all paths to be joined on Illustrator.



2

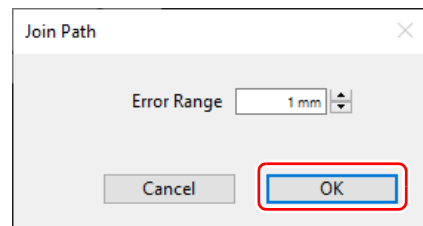
Click [Join Path] button in the FineCut menu.



3

Set the distance between the corner points to be joined.

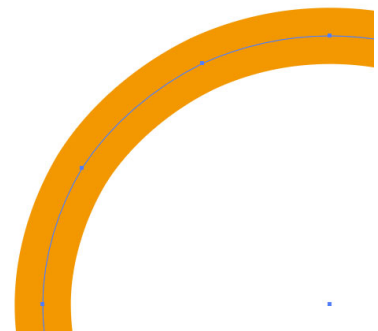
- Click [OK] after setting.



- When the distance between the corner points is longer than the set value, they are not joined. Checking the paths on Illustrator, set the value to join the paths.

4

The paths are joined.



Making a Precut Line around an Object

When creating stickers, a precut line (called "Weed line") around the object enables to tear off the sticker with ease. This describes how to make a weed line and a frame.

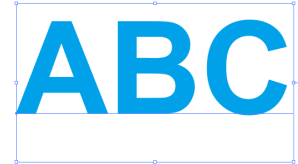
- Important!**
 - Do not set the weed line on a thick sheet. The line may damage the object.
 - When using DCF-605PU (Digital coating machine), this function cannot be used.



- The unit used in "Make a Weed Line" screen refers to the setting of Illustrator. If changing the unit, set in Illustrator-[File]-[Preferences]-[Units & Undo].

1

Select an object on Illustrator.



2

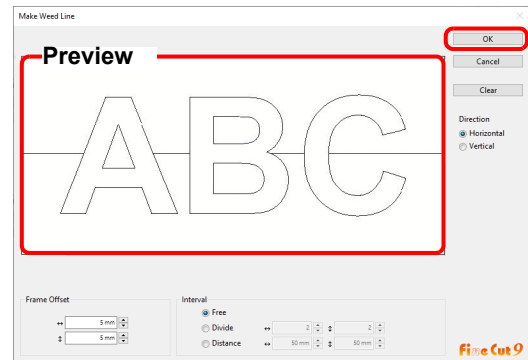
Click [Create Weed Line] button in the FineCut menu.



3

Set the Weed Line.

- After setting, click [OK].



| Item | Description | |
|--------------|--|---|
| Preview | Check the position and the number of weed lines. | |
| Frame Offset | Set the distance between the object and the frame. | |
| Interval | Free | Make the line on the needed position with the needed numbers. Select the direction of the line in [Direction], and click on the preview to make the line. |
| | Divide | Set the dividing numbers to both horizontal and vertical directions. |
| | Distance | Set the distance between the objects to both horizontal and vertical directions. |
| [Clear] | Delete all the weed lines except frames. | |
| Direction | Select the direction of a weed line to be created. It is used when [Free] is selected on [Interval]. | |

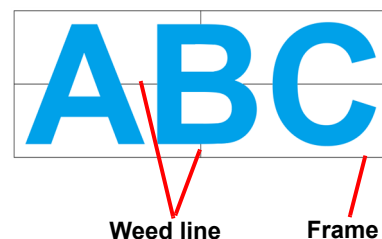
4

Weed lines are created.

- The example shown on the right is set as follows;
Frame Offset: 5mm each
Interval-Divide: 2 each



- To delete the created weed line, select [File]-[FineCut]-[Remove Weed Line] on Illustrator.



4

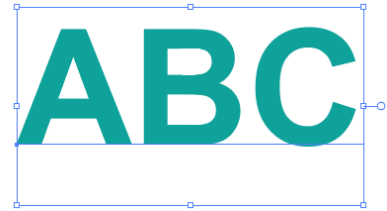
Advanced operations - from FineCut Menu

Creating Shadow / Edge

Create a shadow / edge of an object.

Important! • When using DCF-605PU (Digital coating machine), this function cannot be used.

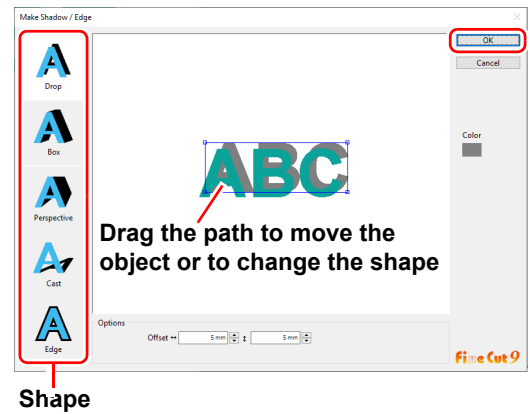
1 Select an object on Illustrator.

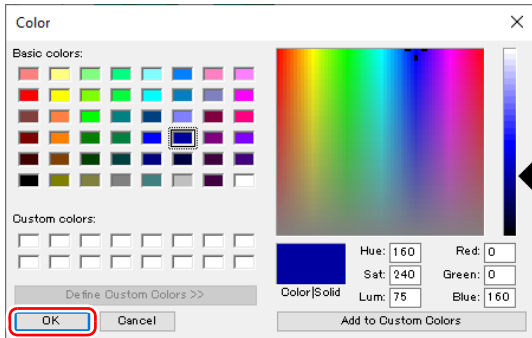


2 Click [Create Shadow / Edge] button in the FineCut menu.



3 Select and set a shadow or an edge, and click [OK].



| Item | Description |
|---------|---|
| Shape | Select shadow type (4types) or edge. |
| Options | Set the offset distance between the object and the shadow / edge. For "Perspective", set the perspective by %. For "Edge", set the shape of the corner and the ratio. (☞ P.3-4 "Making a Frame (Cutting Line)" for reference.) |
| Color | Set the color of a shadow. Click the color to display the following screen. Select color or input the number, and click [OK].  |

Important! • Specify RGB colors for the shadow/edge. If the object color mode is CMYK, it may not be able to display by the specified RGB colors. In this case, it is converted to the representable colors of the nearest CMYK.

4

A shadow or an edge is created.

The example shown on the right is set as follows;

- Shape: Drop
- Offset: 4mm each
- Color: Black



- If the shadow or edge has a lot of anchor points, execute Illustrator-[Object]-[Path]-[Simplify...].
- To remove the created shadow or edge, select [Remove Shadow / Edge] from the [File]-[FineCut] menu.
- If you edit the created shadow or edge on Illustrator, you may not be able to delete it.

Importing / Outputting Plot File

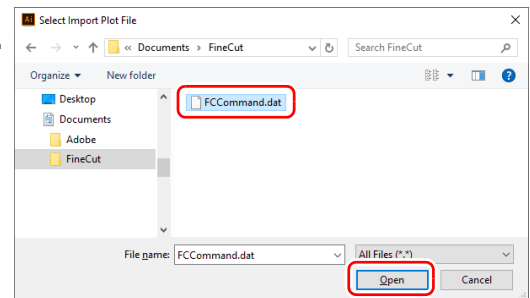
Importing a plot file

Plot files created with cutting software other than FineCut can be imported to Illustrator. You can edit the imported plot files on Illustrator and plot them from FineCut.

- 1 Click [Import Plot File...] button in the FineCut menu.



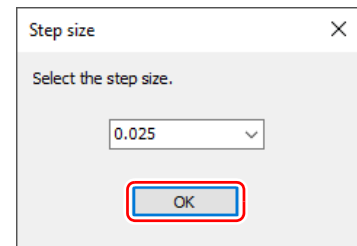
- 2 Select a file to import, and click [Open].



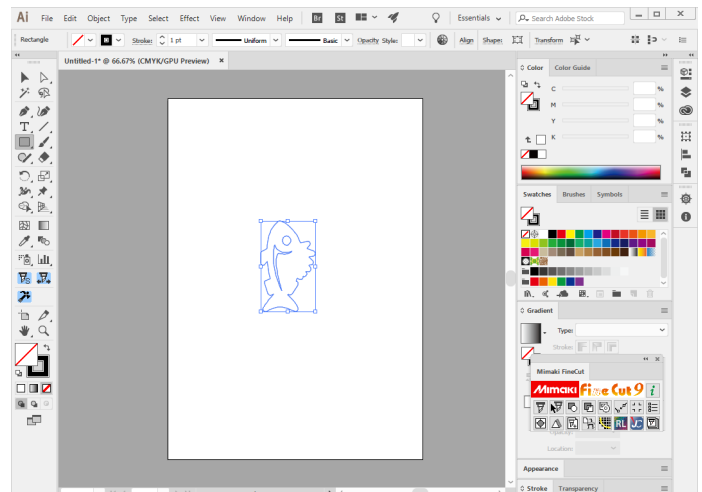
- The importable plot commands are MGL-IC, MGL-IIC, MGL-IIIC, HP-GL.

- 3 Select the step size for the file to import.

- Click [OK] after selecting.



- 4 The imported file is displayed.



Important!

- The image may be rotated and displayed depending on the application that the plot file is created.

Outputting a plot file

Plot files created with cutting software can be output to the plotter.

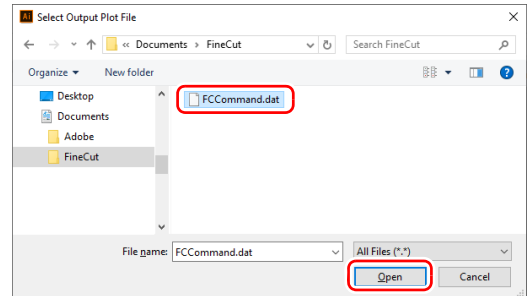
1

Click [Output Plot File] button in the FineCut menu.



2

Select a file to output, and click [Open].



4

Extracting the Outline

Create an outline to cut an image data with no path and readable on Illustrator such as bitmap, JPEG, or TIFF image.

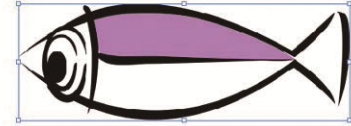
You can also create an outline only in the same color area by specifying the color.

Trace simply

The outline of an image data can be created easily.

1

Select an object on Illustrator.



2

Click [Outline Extraction] button in the FineCut menu.

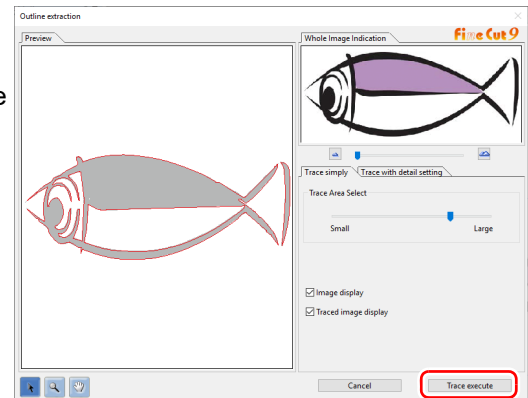


3

Click [Trace execute] button.

- To change the tracing area, drag the slider while checking the preview.

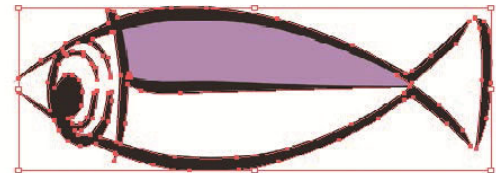
(☞ P.7-56 for other items)



- Clicking [Trace execute], a new layer is created as [FC Trace Layer 1], [FC Trace Layer 2...]. Use this to set cutting condition for each layer. (☞ P.5-14)
- The data in this layer is set to non-printing, since it is used as cutting data. To print this data, enable "Print" on Illustrator "Layer option".

4

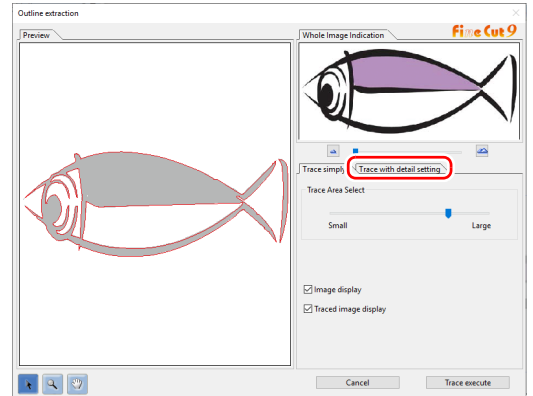
An outline is created on the [FC Trace Layer] of Illustrator.



Trace with detail setting

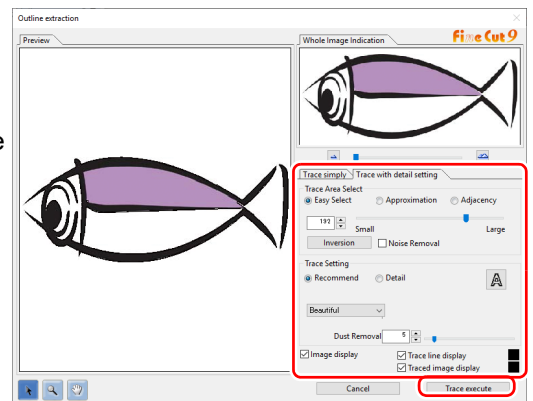
Use this tab when setting the object traced at [Trace Simply] in detail, or when tracing a specific color or area of the object.

1 After executing [Trace Simply], click [Trace with detail setting] tab.



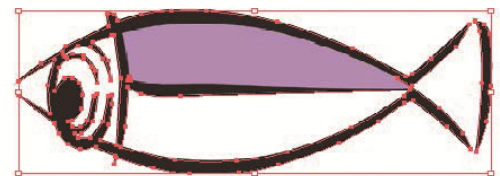
2 Set the tracing and click [Trace execute] button.

- Select the tracing area and set the tracing while checking the preview. (☞ P.7-56 for other items)



- Clicking [Trace execute], a new layer is created as [FC Trace Layer 1], [FC Trace Layer 2...]. Use this to set cutting condition for each layer. (☞ P.5-14)
- The data in this layer is set to non-printing, since it is used as cutting data. To print this data, enable "Print" on Illustrator "Layer option".

3 An outline is created on the [FC Trace Layer] of Illustrator.



Outputting to RasterLink

When using CG-FXII Plus, CG-AR, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330, Trotec Speedy series, CFL605RT, CF22-1225 or TPC, data can be easily printed & cut linking FineCut with RasterLink. (It supports RasterLink Pro 4 or later)

Important!

- To cut an object, set the path for cutting in advance. (P.4-18)

1

Start RasterLink.

If there is no hot folder, create it on RasterLink.
If outputting from Macintosh, set the hot folder.
For details, see the RasterLink Reference Guide or the Installation Guide.

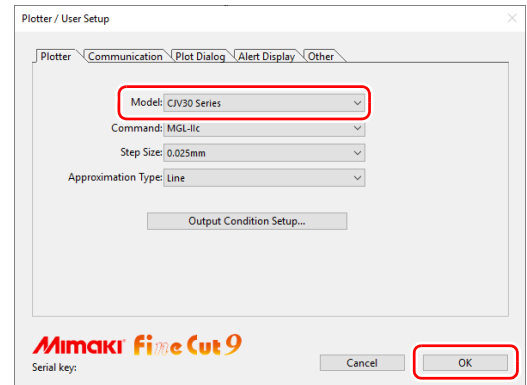
2

Click [Plotter / User Setup...] button in the FineCut menu.



3

Select the model that can output to RasterLink from [Model].



- When a model other than CG-FXII Plus, CG-AR, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330, Trotec Speedy series, CFL605RT, CF22-1225 or TPC is selected, an error appears when clicking [Output to RasterLink] on the next step.

4

Click [Output to RasterLink] button in the FineCut menu.



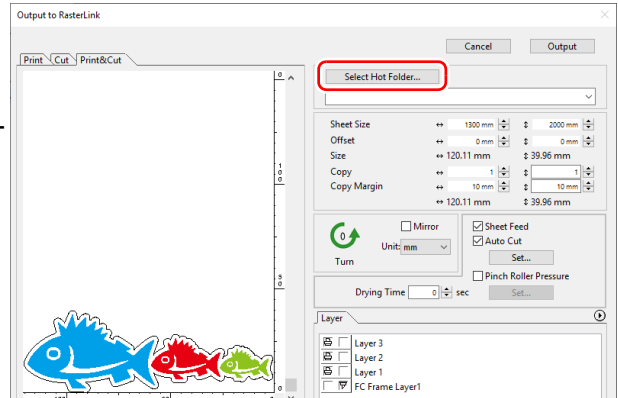
5

Click [Select Hot Folder...].

- Select a hot folder of RasterLink.
- If there is no hot folder, create it on Raster-Link.

Important!

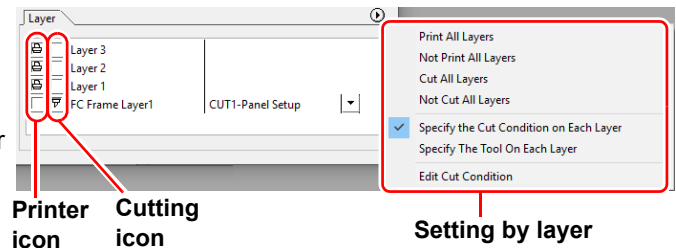
- The folder created from the [Create a new folder] button on the folder reference screen does not work as hot folder. Create a hot folder on RasterLink.



6

Select and set the layers to print or cut.

- P.4-15 "How to set cutting paths" for setting cut layers.



| Item | Description |
|-------------------------|---|
| Printer icon | Click to put a mark on the printing layer. |
| Cutting icon | Click to put a mark on the cutting layer. • Output to RasterLink is possible when you select CG-FXII Plus or CG-AR, CFL-605RT, CF22-1225, which support ID Cut (P.5-19) and can produce multilayer printing plates. In this case, the cutting icon cannot be selected. |
| Setting by layer | Click button and select [Specify the Cut Condition on Each Layer] or [Specify The Tool On Each Layer]. Then, select the cutting condition or tools on the right column of the layer names. |



- When both the print and the cut are marked on the Layer screen shown above, the plotter prints, and then cuts the object. If the printing layer has a register mark created with the register mark creation of FineCut, it reads the register mark position after printing, and cuts on the more accurate position. Note that cut marks cannot be applied when CFL-605RT or CF22-1225 is selected.
- When only cutting is marked on the layer screen, include the register mark in the cutting layer to cut with the register mark loaded.
- If not setting [Specify the Cut Condition on Each Layer] or [Specify The Tool On Each Layer], it plots with the setting of the plotter.
- Data is placed with the margin of 0.5mm around.

Important!

- When cutting with the register mark loaded, set [1Pt] on [MARK DETECT] of CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series or TPC as the number of register mark detection.
- When creating the register mark on the register mark creation of FineCut, uncheck [Leave a rectangle as the cutting line]. If checked, the plotter cuts with a part of the rectangle missed.
(P.3-9)
(Activating [Outer Frame Cut] of Cut Condition screen is recommended.)
- When printing type2 register mark (), space between copies for at least the register mark size. (P.3-9)
- Create only one set of register mark on Illustrator. Creating plural marks causes an error.

7

Set the other items if needed.

-  P.7-59

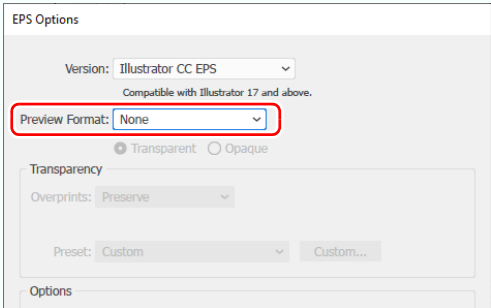
8

Click [Output], then set EPS.

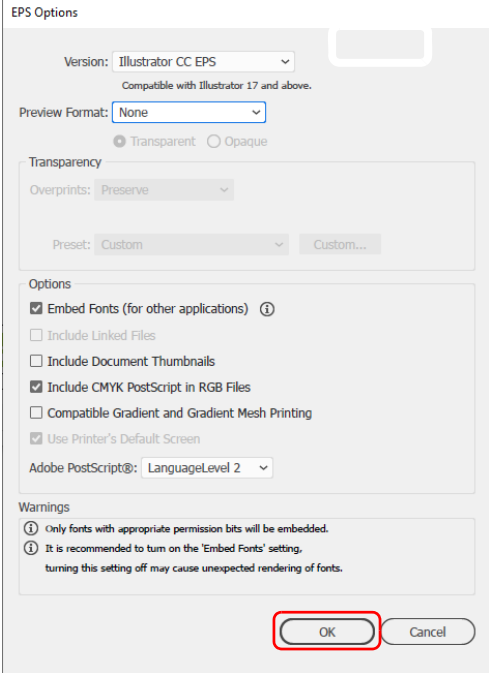
- Click [OK] to send the data to RasterLink.
- EPS setting varies from the Illustrator version used.

Important!

- For the [Preview format], select [None]. If the item other than [None] is selected, an error may occur.



The screenshot shows the 'EPS Options' dialog box. The 'Version' is set to 'Illustrator CC EPS'. The 'Preview Format' dropdown menu is highlighted with a red box and set to 'None'. Below it, the 'Transparency' section has 'Overprints' set to 'Preserve' and 'Preset' set to 'Custom'. The 'Options' section is partially visible at the bottom.



The full screenshot of the 'EPS Options' dialog box. The 'Version' is 'Illustrator CC EPS'. The 'Preview Format' is 'None'. The 'Transparency' section has 'Overprints' set to 'Preserve' and 'Preset' set to 'Custom'. The 'Options' section includes: Embed Fonts (for other applications) ⓘ, Include Linked Files, Include Document Thumbnails, Include CMYK PostScript in RGB Files, Compatible Gradient and Gradient Mesh Printing, Use Printer's Default Screen, and Adobe PostScript@: LanguageLevel 2. The 'Warnings' section contains two messages: 'Only fonts with appropriate permission bits will be embedded.' and 'It is recommended to turn on the 'Embed Fonts' setting, turning this setting off may cause unexpected rendering of fonts.' The 'OK' button is highlighted with a red box.

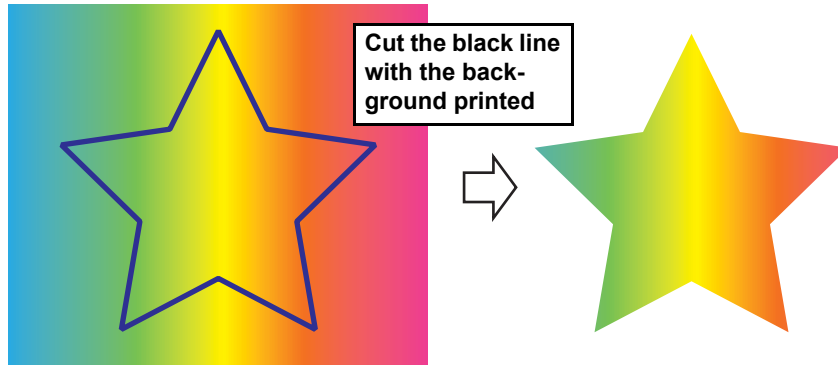
9

Execute printing & cutting on RasterLink.

- For details, see the RasterLink Reference Guide.

How to set cutting paths

When cutting an object, set the path to be cut.

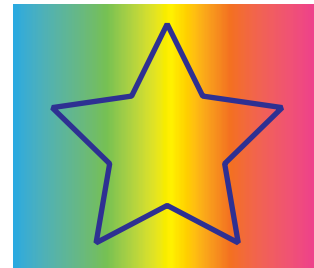


- For the cutting path created at “Frame Extraction”, “Rectangle” of register marks, and “Outline Extraction”, this operation is not required because cutting layers are automatically created.

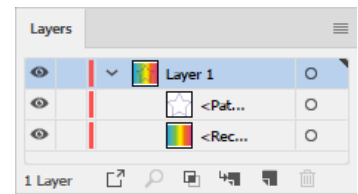
1

Open an object on Illustrator.

- When the Layers Palette is not displayed, put a check on [Layers] of [Window] menu.



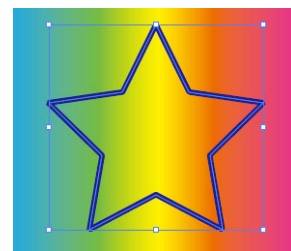
Layers palette



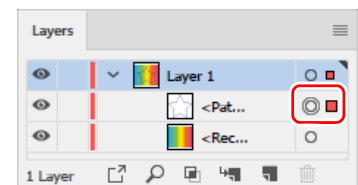
2

Click a path to be cut.

- A colored mark is put on the selected path in the Layers Palette.



Layers palette



4

3

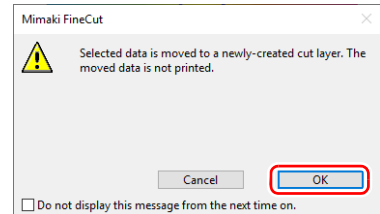
Click [Move to the Cut Layer] button in the FineCut menu.



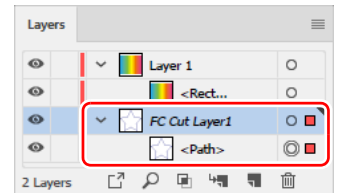
4

Click [OK] to set the path for cutting.

- [FC Cut Layer1] is created and the selected path is moved into this layer.
- Every time executing [Move to the Cut Layer], a new layer is created as "FC Cut Layer 1", "FC Cut Layer 2".



Layers palette



Outputting to the Trotec laser engraving machines

You can output the cutting data to the Trotec Speedy series (laser engraving machine 100/300/360/400), and then perform cutting.

There are two ways to output cutting data, as follows.

- Output cutting data directly from FineCut to the laser engraving machine.
- Use Trotec software to output cutting data.

For cutting procedures, please download "Trotec Laser Cut Guide" from the Mimaki website (<https://mimaki.com/>).

Important!

- Be sure to read the operating manual for the laser engraving machine. Be careful about the safety according to the operation manual of the laser engraving machine.

Preparation (connecting to the laser engraving machine)

A virtual COM driver is required to connect the computer and Trotec laser engraving machine with a USB cable for data output.

1

For this purpose, download the virtual COM driver for your OS from the website (<https://www.ftdichip.com/Drivers/VCP.htm>).

- Windows versions of the virtual COM driver are included on the Trotec Speedy disc. If the virtual COM driver is already installed, go to step 3.

2

Install the virtual COM driver.

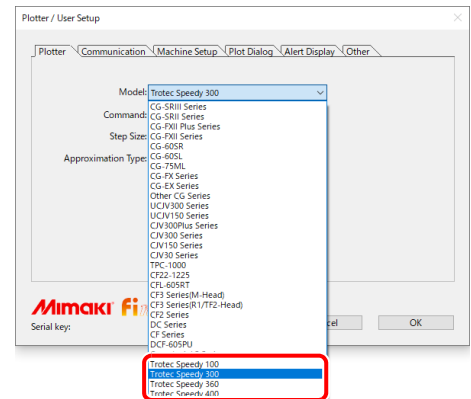
3

Connect the computer and laser engraving machine with a USB cable.

4

On the [Plotter] tab of the [Plotter / User Setup] screen, select the Trotec Speedy series in [Model].

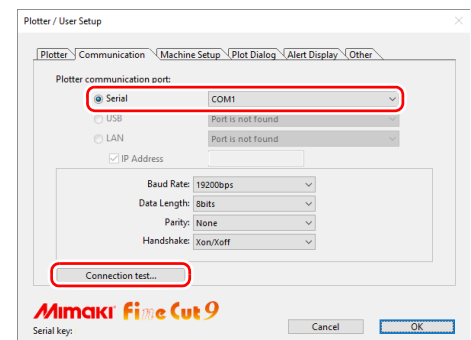
- Trotec Speedy 100
- Trotec Speedy 300
- Trotec Speedy 360
- Trotec Speedy 400



5

On the [Communication] tab, select [Serial].

- Click the [Connection test...] button to confirm that the computer and laser engraving machine are correctly connected.

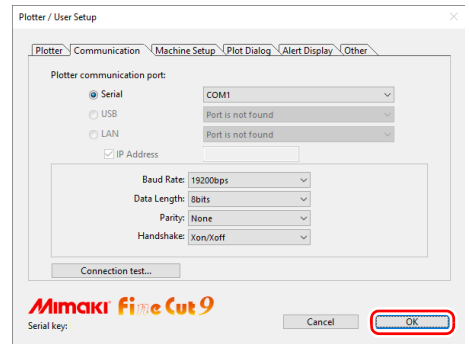


4

Advanced operations - from FineCut Menu

6

Click the [OK] button.

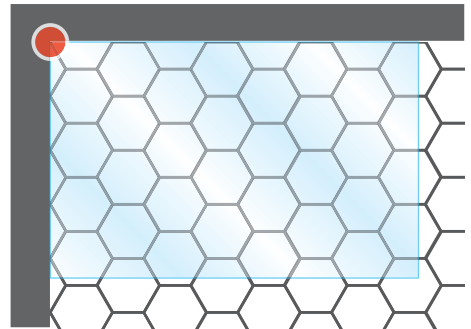


Output cutting data directly from FineCut to the laser engraving machine.

Adjusting the origin.

1

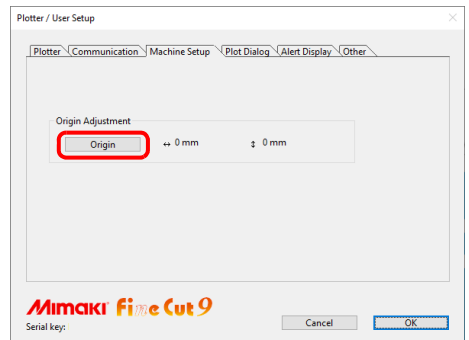
Use the jog key of the laser engraving machine to move the head and position the light pointer at the origin (0, 0).



2

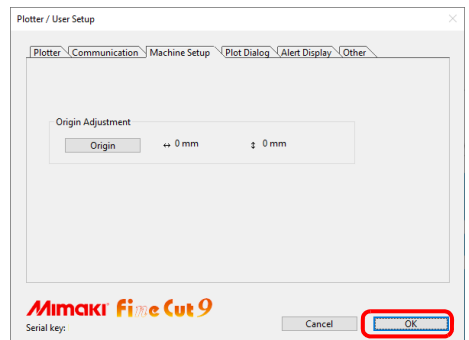
On the [Machine Setup] tab of the [Plotter / User Setup] screen, click the [Origin] button.

- The position of the light pointer is acquired from the laser engraving machine and registered as the data origin.



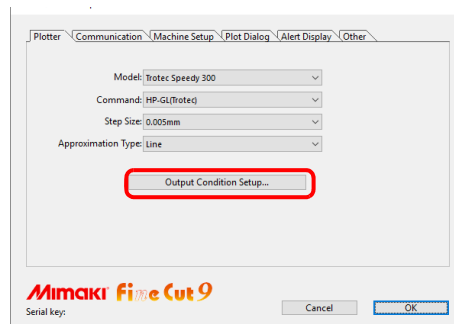
3

Click the [OK] button.



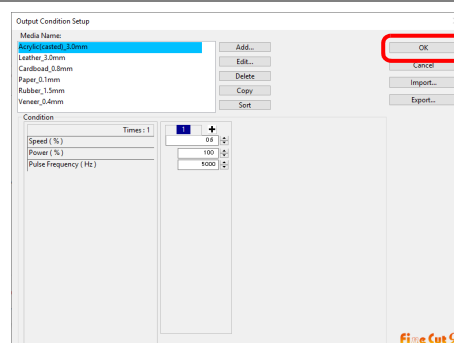
Cutting

- 1 On the [Plotter] tab of the [Plotter / User Setup] screen, click the [Output Condition Setup...] button.



- 2 Set the cutting conditions of the laser engraving machine, then click the [OK] button.

P.4-38 "Setting Output Condition"

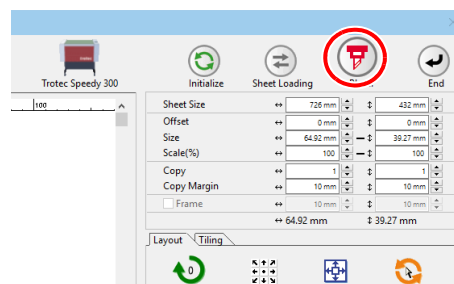


- 3 Click [Plot] button in the FineCut menu.



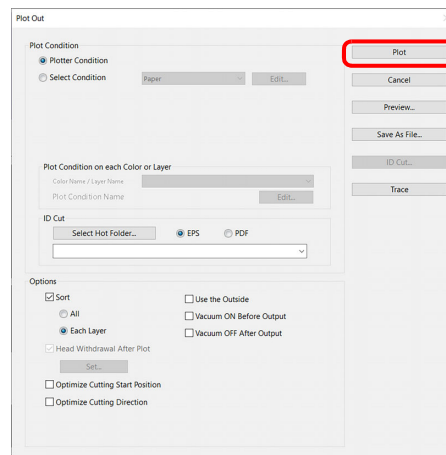
- 4 Click (Plot button) on the plotting screen.

- The [Plot Out] screen is displayed.
- Note that the following functions are not available.
 - Register Mark
 - Sheet Loading
 - Frame / Center Mark / Corner Mark



- 5 Select the cutting conditions on the [Plot Out] screen, then click the [Plot] button.

- The data is cut on the laser engraving machine.
- Note that on this screen, the following function is not available.
 - Preview...



Create register marks in FineCut, then perform printing and cutting.

Printing.

1

Create the print data.

2

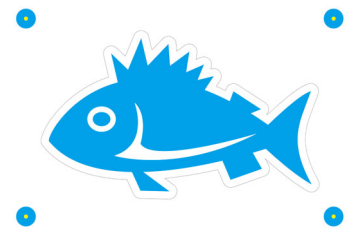
Create the cut data.

- P.3-4 "Making a Frame (Cutting Line)"

3

Create register marks in FineCut.

- P.3-25 "Making Register Marks" - "Trotec Speedy Series, Gravotech LS series, DCF-605PU(Digital coating machine)"



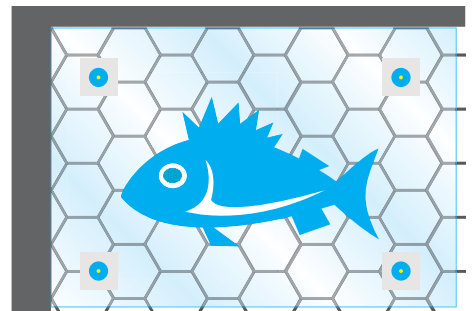
4

Print the print data with register marks.

Cutting.

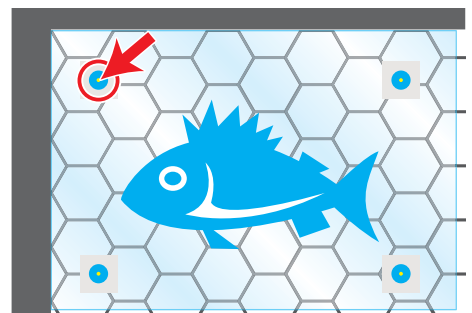
1

Load the printed media in the laser engraving machine.



2

Move the red pointer over the center of the upper-left register mark.



3

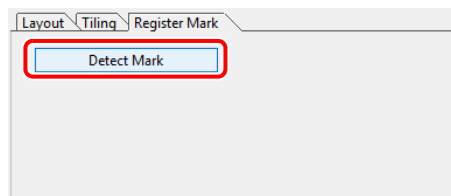
Click [Plot] button in the FineCut menu.



4

Click [Register Mark] tab and click [Detect Mark].

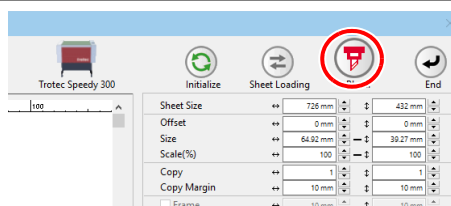
- Register mark is detected.



5

Click  (Plot button) on the plotting screen.

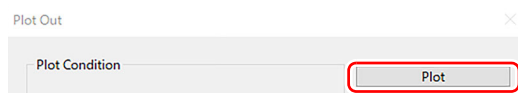
- The [Plot Out] screen is displayed.




6

On the [Plot Out] screen, click the [Plot] button.

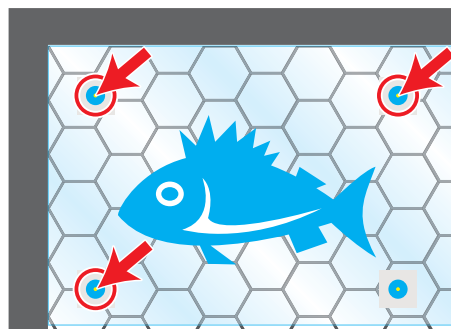
- Cut data is sent to the laser engraving machine.



7

On the laser engraving machine, the red pointers move in order near the corners of the register marks. In each corner, move the red pointer over the center of the register mark, then press  (the "Standby" button).

- Be sure to close the laser engraving machine cover before pressing the standby button.
- If the standby button does not move to the next register mark, press the standby button again.
- If the position of the RED pointer deviates significantly from the register mark, repeat register mark detection from the beginning.
- Pressing the standby button turns off the light, but this is normal and there is no problem.

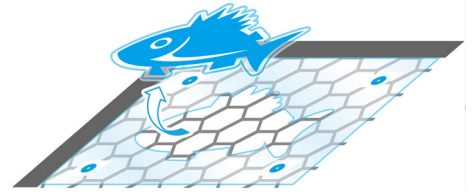


4

Advanced operations - from FineCut Menu

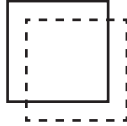
8

The position of cut data is corrected and cutting starts.

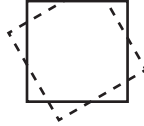


- The shapes that can be corrected are as follows.

Parallel translation

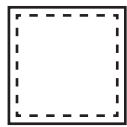


Rotation



- As shown below, it is not possible to correct shapes with scale correction or distortion.

Scale correction



Distortion



Outputting to a Gravotech laser engraving machine

You can output cutting data from FineCut to a Gravotech LS series (LS100IQ, LS100Ex, LS100Ex_Energy, LS900, LS900XP, LS900Energy, LS900Edge, LS1000XP, LS_Energy8) and then perform cutting. Note that this is possible only in Windows; this function is not supported in Macintosh environments.

There are two ways to output cutting data, as follows.

- Perform only cutting in FineCut.
- Create register marks in FineCut, then perform printing and cutting.

Important!

- Be sure to read the operating manual for the laser engraving machine. Be careful about the safety according to the operation manual of the laser engraving machine.

Preparation

1

Connect and adjust the laser engraving machine.

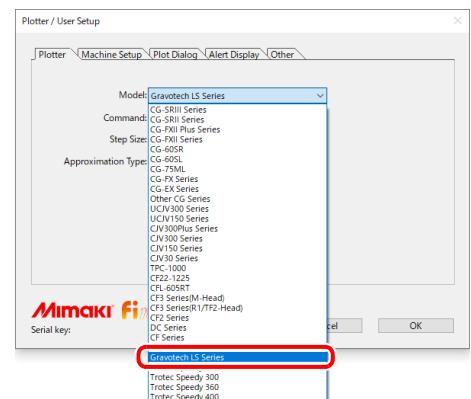
Download the latest L-Solution driver from the Gravotech site https://www.gravotech.co.jp/download_mimaki.php and install it according to the manual on the site.

You will also need to adjust the laser engraving machine after installation. Please refer to the manual on the same site for how to adjust the laser engraving machine.

2

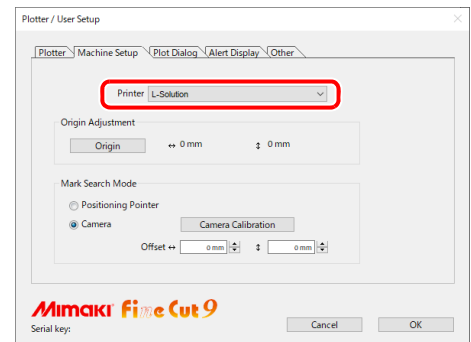
On the [Plotter] tab of the [Plotter / User Setup] screen, select "Gravotech LS Series" in [Model].

- This option is not displayed on Macintosh computers.



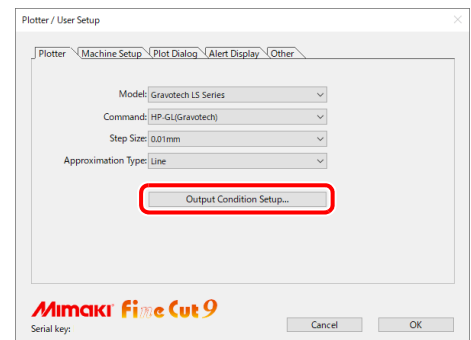
3

Select the L-Solution printer driver on the [Machine Setup] tab.



4

Click the [Output Condition Setup...] button on the [Plotter] tab.





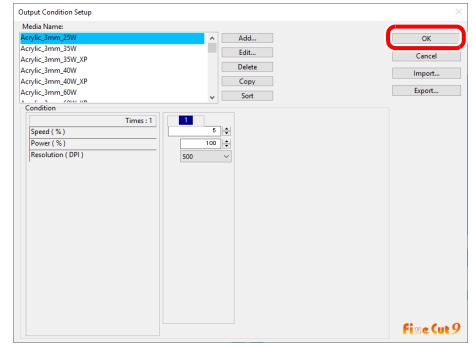
4

Advanced operations - from FineCut Menu

5

Set the cutting conditions of the laser engraving machine, then click the [OK] button.

-  P.4-38 "Setting Output Condition"
-  P.7-22 "When Gravotech LS series is selected"



6

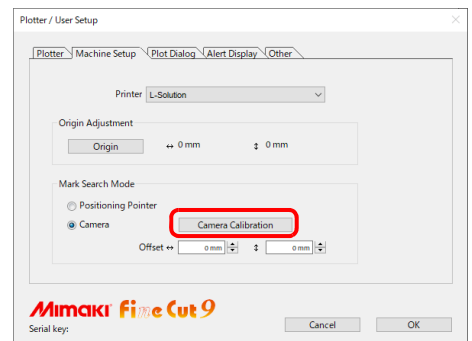
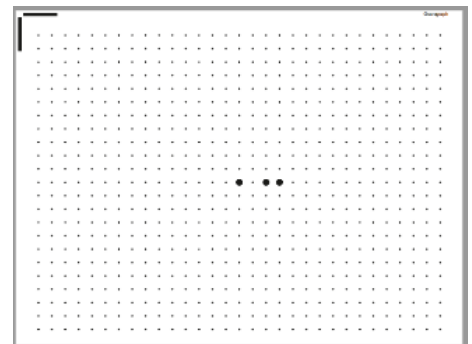
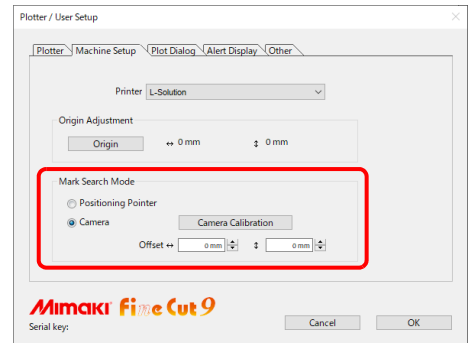
Select [Positioning Pointer] or [Camera] in [Mark Search Mode] on the [Machine Setup] tab.

- The following preparations are required when selecting [Camera].
(Only models with camera connected)

1. Install the camera driver.
 - Download the latest camera driver from the Gravotech site https://www.gravotech.co.jp/download_mimaki.php and install it according to the manual on the same site.

2. Print the calibration grid.
 - According to the manual in 1, print the calibration grid data on the calibration media (acrylic 2-layer board: black and white) with a laser.

3. Perform calibration.
 - Click the [Calibration Camera] button on the [Machine Setup] tab of the [Plotter / User Setup] screen.

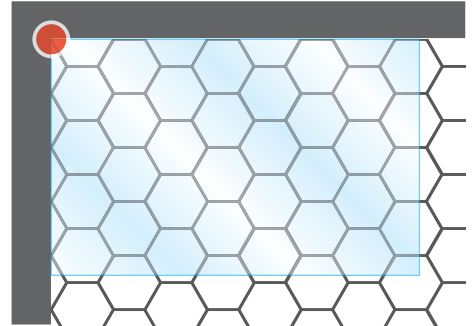


Outputting cut data from FineCut.

Adjusting the origin.

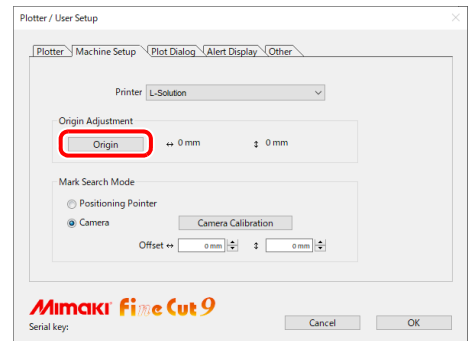
1

Use the jog key of the laser engraving machine to move the head and position the light pointer at the origin (0, 0).



2

On the [Machine Setup] tab of the [Plotter / User Setup] screen, click the [Origin] button.



3

The position of the light pointer is acquired from the laser engraving machine and registered as the data origin.

4

Click the [OK] button.

4

Advanced operations - from FineCut Menu

Cutting.

1

Create the cut data.

2

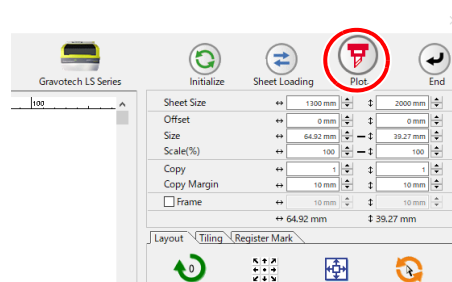
Click the [Plot] button on the FineCut menu.



3

Click  (Plot button) on the plotting screen.

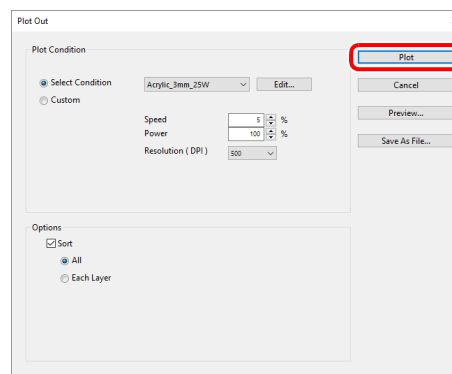
- The [Plot Out] screen is displayed.
- Note that the [Sheet Loading] functions are not available.




4

Select the cutting conditions on the [Plot Out] screen, then click the [Plot] button.

- The data is sent to the laser engraving machine.



5

Press  (the "START" button) on the laser engraving machine.

- The data is cut on the laser engraving machine.

Create register marks in FineCut, then perform printing and cutting.

Printing.

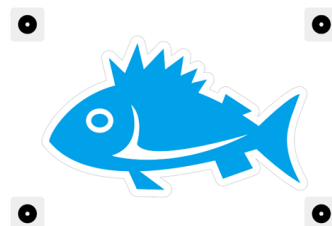
1 Create the print data.

2 Create the cut data.

- P.3-4 "Making a Frame (Cutting Line)"

3 Create register marks in FineCut.

- When printing a register mark on media other than white, be sure to check [Fill around the register mark] in the [Register Mark Creation] dialog.
- Register marks created with FineCut9 version 1.2 or earlier cannot be detected by the camera. When detecting the register mark by the "Camera", create register marks again with FineCut9 version 1.3 or later.
- P.3-25 "Making Register Marks" - "Trotec Speedy Series, Gravotech LS series, DCF-605PU(Digital coating machine)"

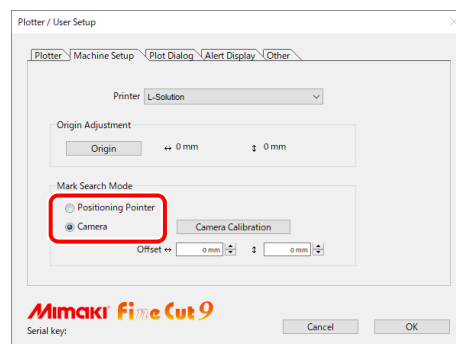


4 Print the print data with register marks.

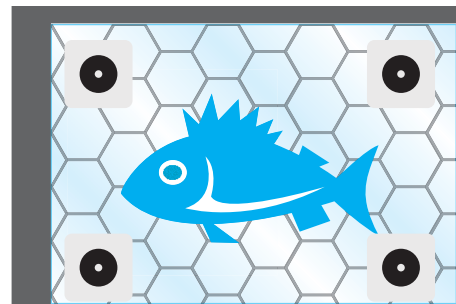
Cutting.

1 Select [Positioning Pointer] or [Camera] in [Mark Search Mode] on the [Plotter / User Setup] screen - [Machine Setup] tab.

- Select [Positioning Pointer] when using register mark data created with FinCut9 Ver.1.2 or earlier.
- If you want to select [Camera], create a register mark again using FinCut9 Ver.1.3 or later.



2 Load the printed media in the laser engraving machine.

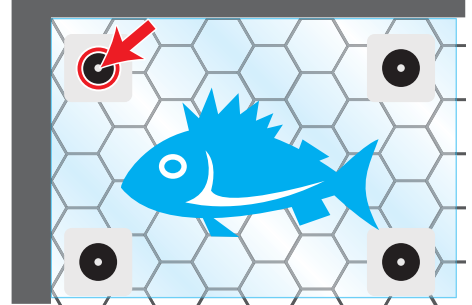


3

Press  (the "POSITIONING POINTER" button) on the laser engraving machine.

4

Move the red pointer over the center of the upper-left register mark, then press  (the "AUTOFOCUS" button).



5

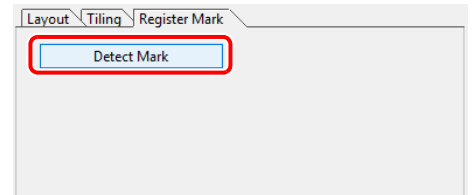
Click [Plot] button in the FineCut menu.



6

Click [Register Mark] tab and click [Detect Mark].

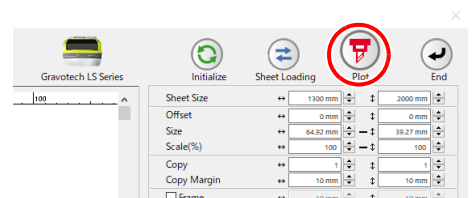
- Register mark is detected.



7

Click  (Plot button) on the plotting screen.

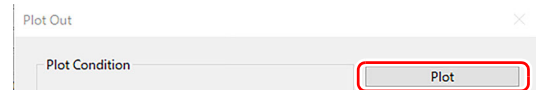
- The [Plot Out] screen is displayed.




8

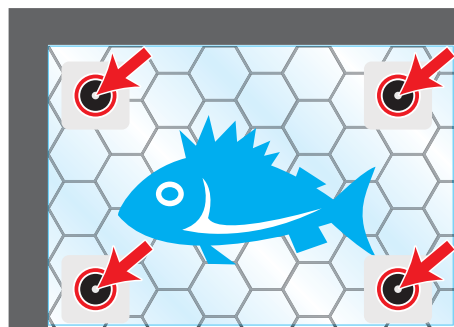
On the [Plot Out] screen, click the [Plot] button.

- Cut data is sent to the laser engraving machine.



9

When [Positioning Pointer] is selected in the register mark detection mode, on the laser engraving machine the RED pointer moves near the four corners of the register mark in order. In each corner, move the red pointer over the center of the register mark, then press  (the "VALIDATION" button). When [Camera] is selected, the register marks at the four corners are automatically detected by the camera.



10

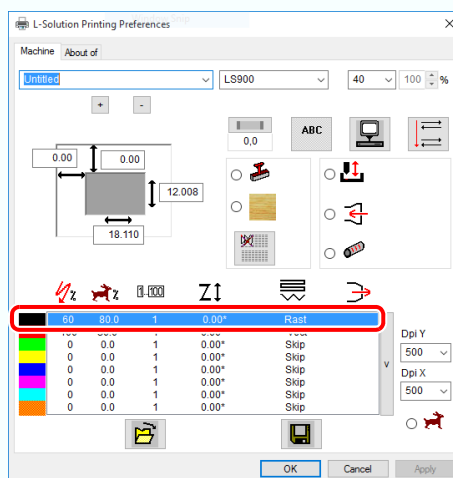
Press  (the "START" button).

- The position of cut data is corrected and cutting is performed.



Important!

- Outputting plot files as described below will perform cutting according to output conditions set to black on the [L-Solution Printing Preferences] screen of the L-Solution printer driver.
 - (1) In step 8, click the [Save as File...] button to create a plot file.
 - (2) Click the [Output Plot File] button on the FineCut menu.



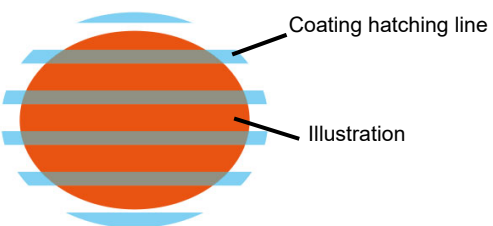

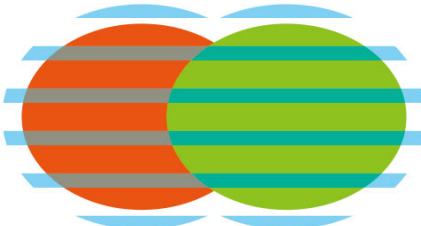

- If the cut position is misaligned when the register mark is detected by the camera, adjust the [Offset] on the [Plotter / User Setup] screen-[Machine Setup] tab.

4

Advanced operations - from FineCut Menu

Outputting to a DCF-605PU (Digital coating machine)

A top coat can be applied in accordance with the coating data configuration by outputting coating data to the DCF-605PU (digital coating machine).
The coating is applied as follows in accordance with the output conditions set.

| No. | Illustration type | Coating coverage | Coating schematic (with offset set to outside) |
|-----|------------------------------|---|---|
| 1 | Solid figure | Coat the entire illustration. |  |
| 2 | Shape with unfilled interior | Coat except for interior unfilled area. |  |
| 3 | Overlapping shapes | Coat all shapes of the illustration. |  |
| 4 | Line (Open path) | Not coated. |  |

The explanation here uses the sequence "Print → Apply top coat → Cut".

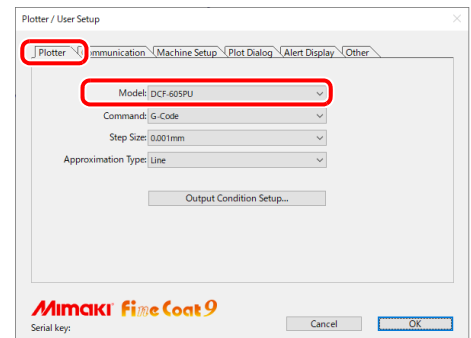
Preparation (Connect the digital coating machine)

Set the digital coating machine to enable coating, and connect to the PC using a LAN cable. For details, refer to the digital coating machine operation manual.

1 Connect the digital coating machine to the PC using a LAN cable.

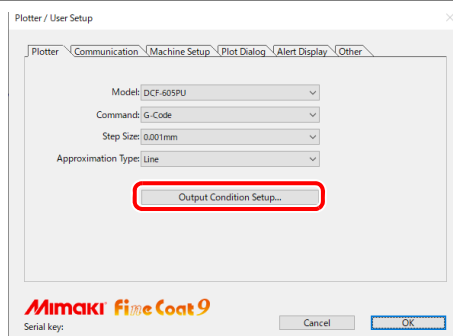
2 On the [Plotter] tab of the [Plotter / User Setup] screen, select "DCF-605PU" in [Model].

- The individual settings are as follows: (Fixed)
 - Command: G-Code
 - Step Size: 0.001mm
 - Approximation Type: Line



3

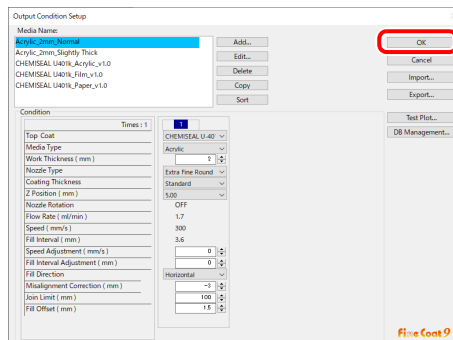
Click the [Output Condition Setup...] button.



4

Set the output conditions for the digital coating machine, then click the [OK] button.

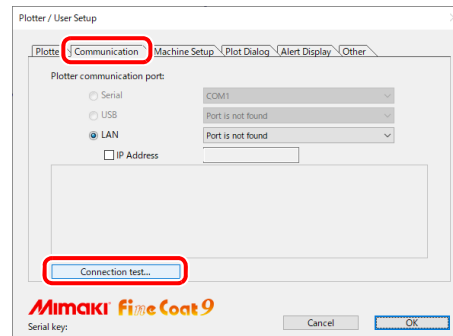
- P.4-38 "Setting Output Condition"
- P.7-23 "When DCF-605PU (digital coating machine) is selected"



5

Click the [Connection test...] button on the [Communication] tab.

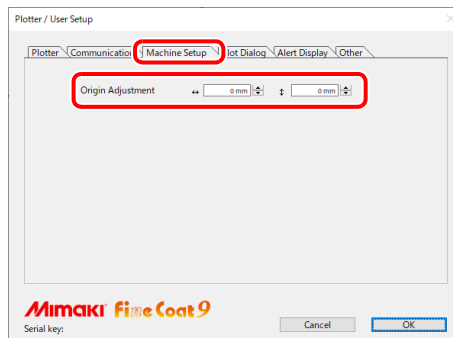
- Check that the digital coating machine is correctly connected to the PC.



6

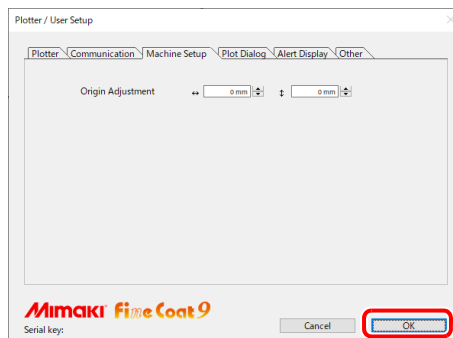
Adjust the digital coating machine origin on the [Machine Setup] tab.

- Adjust by entering an offset value if the origin point for the coating is offset from the printing position.
 - Setting range: -20.0mm to +20.0mm
 - Default: 0.0mm
- If using a square jig, enter 10 mm × 10 mm.
- P.7-30 "DCF-605PU (Digital coating machine) is selected"



7

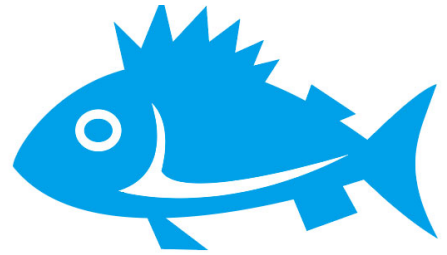
Click [OK].



Creating and printing data.


1

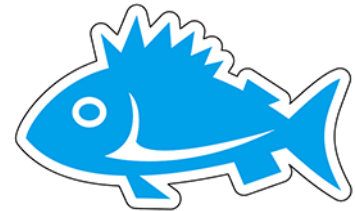
Create the print data.



2


Use the [Frame Extraction] or [Outline Extraction] function to create cutting/coating data.

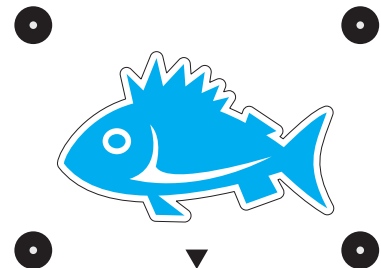
-  P.3-4 "Making a Frame (Cutting Line)"
- The same data is used for cutting data and coating data.



3

Create register marks in FineCoat.

-  P.3-25 "Trotec Speedy Series, Gravotech LS series, DCF-605PU(Digital coating machine)"
- Register marks are used for aligning coating and cutting.



4

Print the data.

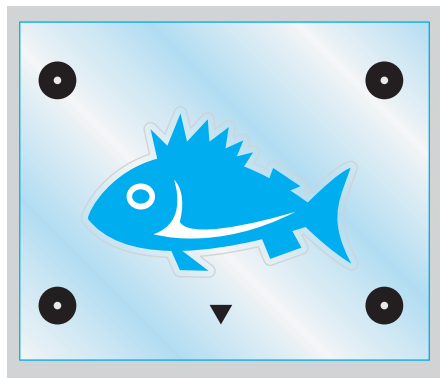
- Print the data using RIP software (RasterLink).
- For details, refer to the RasterLink reference guide and printer operation manual.

Coating.

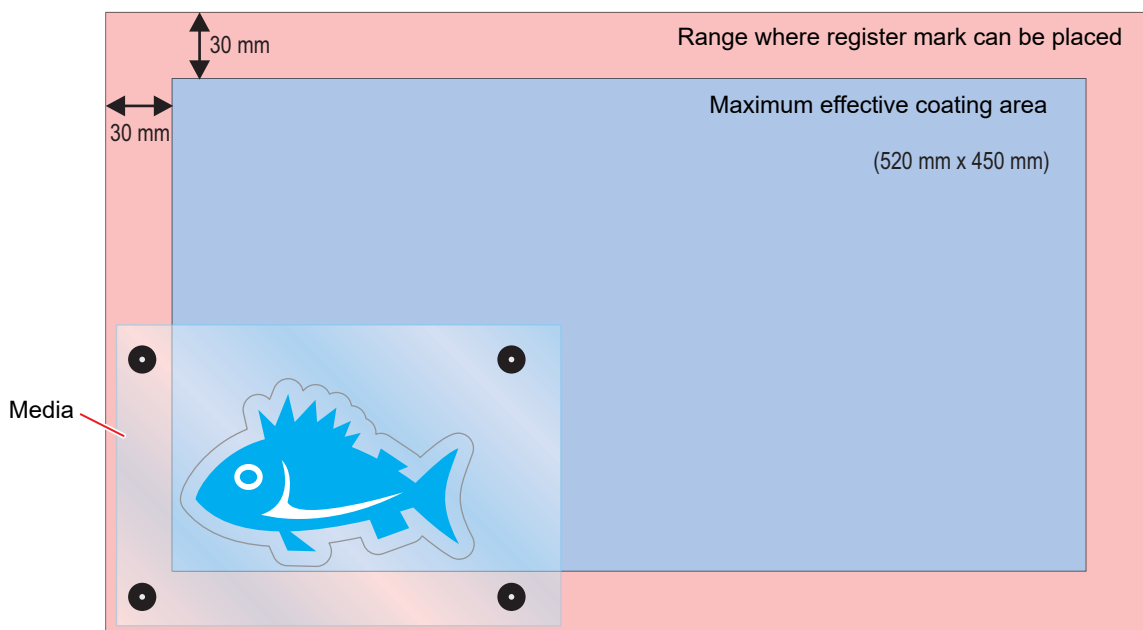
Apply the top coat to the coating area using the digital coating machine.
For details, refer to the digital coating machine operation manual.

1

Set the printed media at the required position in the digital coating machine.



- Arrange the center of register mark inside [Maximum effective coating area] + [30 mm].



2

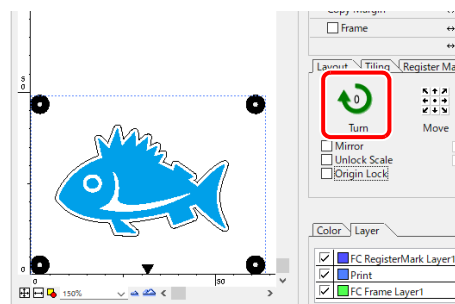
Click [Plot] button in the FineCoat menu.

- [Sheet Loading...] on the [Plot] screen cannot be used.



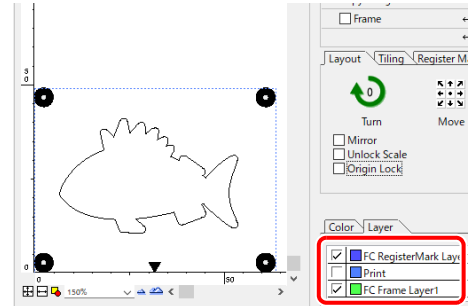
3

Click the [Turn] icon to rotate the data to the same orientation as the print data set in the digital coating machine.



4

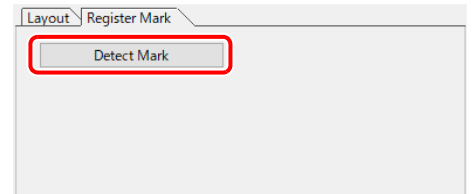
In the [Layer] tab, uncheck all layers except for those containing the coating data (cutting data) and register marks.



5

Click [Register Mark] tab and click [Detect Mark].

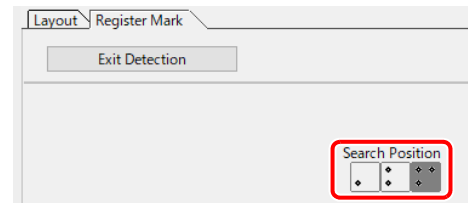
- Register mark is detected.



6

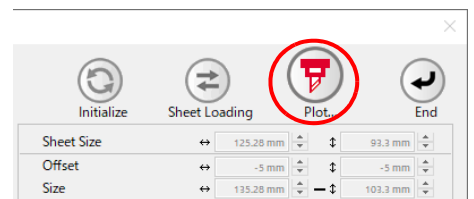
Select the register mark detection locations.

- 1 point: Detect coating origin position only
- 2 points: Origin position + angle correction
- 3 points: Origin position + angle correction + size correction




7

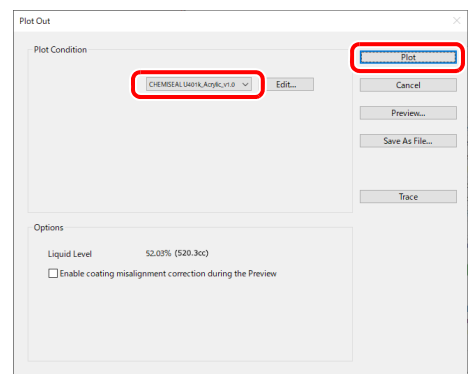
Click  (Plot button).



8

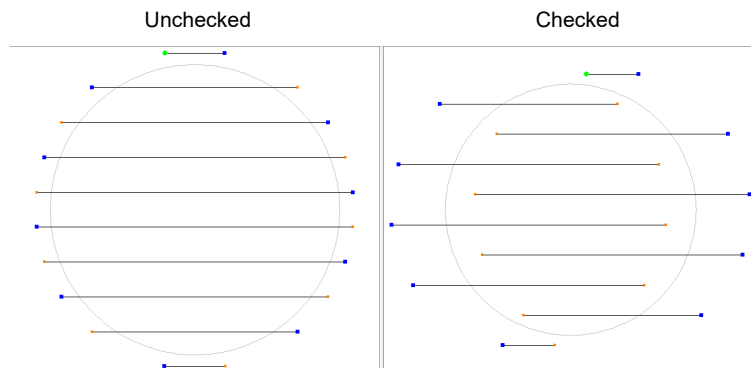
On the [Plot Out] screen, select the plot conditions, then click the [Plot] button.

-  P.7-47 "DCF-605PU (Digital coating machine)"
- The red pointer on the digital coating machine illuminates, and the head moves to the 0,0 origin position.

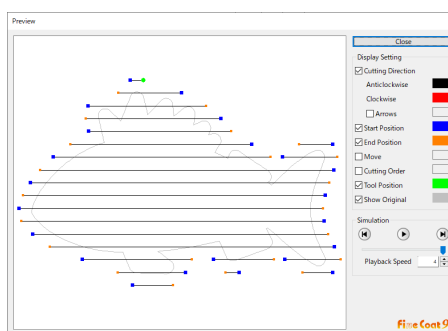




- [Liquid Level] is displayed in [Options].
- Checking [Enable coating misalignment correction during the Preview] displays the filling lines based on [Misalignment Correction] when [Preview...] is clicked.



- Clicking the [Preview...] button allows the coating hatching lines to be checked.



- Clicking the [Trace] button moves the head without printing the top coat, enabling the coating position to be checked without wasting media.

9

A message to adjust the atomized air pressure appropriately to suit the coating thickness appears. Adjust to the atomized air pressure indicated.

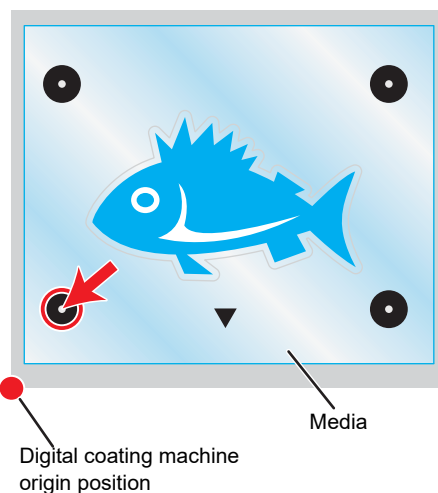
10

A message to adjust the flow rate appears. Adjust the flow rate using a flow rate meter.

11

Use the jog key to move the red pointer to the center of the register mark closest to the origin position, then press the [ENTER] key.

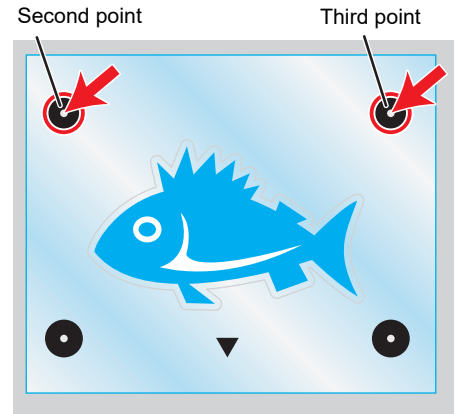
- If one register mark detection is set, top coat is applied at the coordinates when the [ENTER] key is pressed.



12

If two or three register mark detection is set, the head automatically moves close to the register mark to be detected. Move the red pointer to the center of that register mark, then press the [ENTER] key.

- This step is not required for one register mark detection.
- Top coat is applied at the coordinates when the [ENTER] key is pressed.



13

Use a UV curing unit to cure the applied top coat.

Cutting.

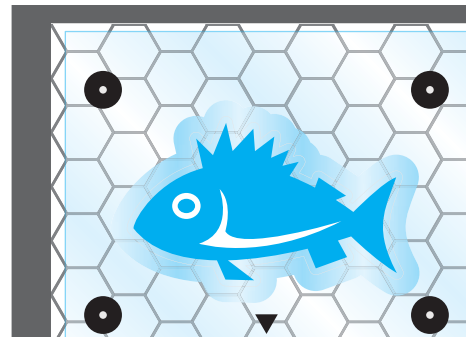
Laser cut using a laser engraving machine.

For details, refer to the operation manual for the laser engraving machine used and to the points below.

- P.4-17 "Outputting to the Trotec laser engraving machines"
- P.4-23 "Outputting to a Gravotech laser engraving machine"

1

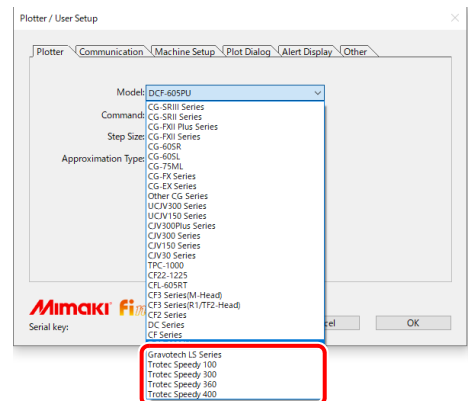
Set the coated media at the required position in the laser engraving machine.



2

Select the laser engraving machine to be used on the [Plotter] tab on the [Plotter / User Setup] screen.

- Select a Trotec Speedy series or Gravotech LS series model.



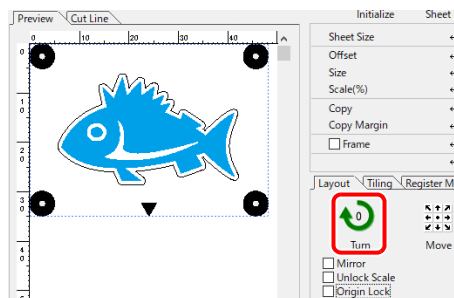
3

Click [Plot] button in the FineCut menu.



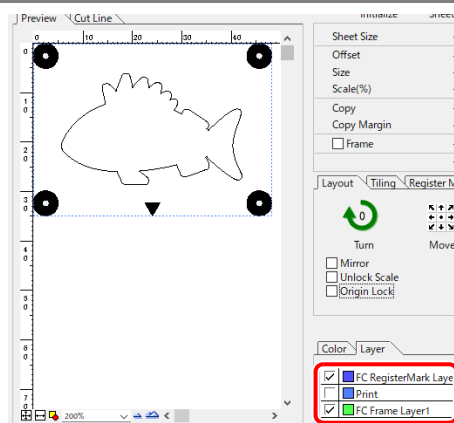
4

Click the [Turn] icon to rotate the data to the same orientation as the print data set in the laser engraving machine.



5

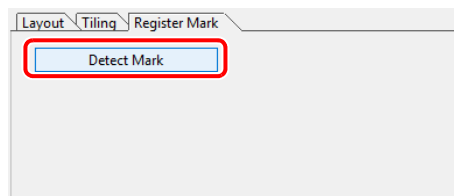
In the [Layer] tab, uncheck all layers except for those containing the cutting data and register marks.



6

Click [Register Mark] tab and click [Detect Mark].

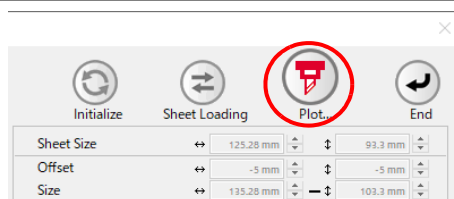
- Register mark is detected.



7

Click  (Plot button).

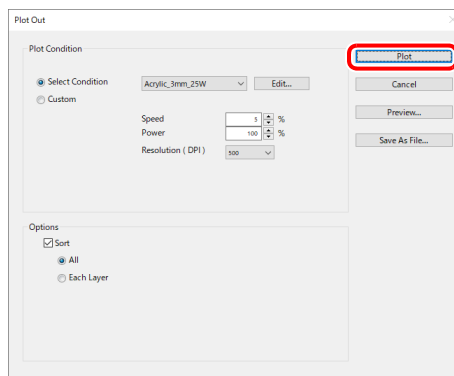
- The [Plot Out] screen is displayed.



8

Select the cutting conditions on the [Plot Out] screen, then click the [Plot] button.

- The data is cut on the laser engraving machine.
- The following function is not available on this screen when using a Trotec Speedy series laser engraving machine.
 - Preview...



Setting Output Condition

Output condition can be set by the media used.

Important!

- This function is available when [MGL-IIc] or [MGL-IIIc] is selected in [Command], or [Trotec Speedy series], [Gravotech LS series], or [DCF-605PU] is selected in [Model] on the [Plotter] tab of the [Plotter / User Setup] screen.
- If any setting value exceeds the limit of the plotter or laser engraving machine, the object is plotted with the limit of the plotter or laser engraving machine. For the limit, refer to the Operation Manual of the plotter or laser engraving machine.



- Once output conditions are set for each media with the following steps, the conditions can be changed by media on Plot Out screen.

1

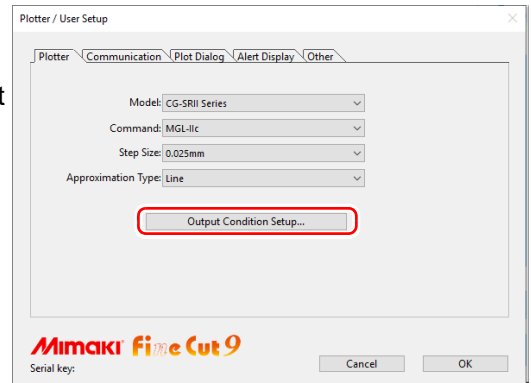
Click [Plotter / User Setup...] button in the FineCut menu.



2

Click [Output Condition Setup...].

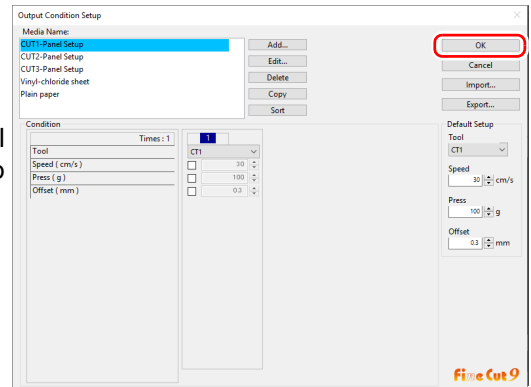
- Alternatively, click [Edit] button in the Plot Out screen.



3

Set conditions on Output Condition Setup screen.

- Setting items differ depending on the model selected on [Model] of Plotter / User Setup screen (Step 2).
- Set each item and click [OK]. (P.7-5)



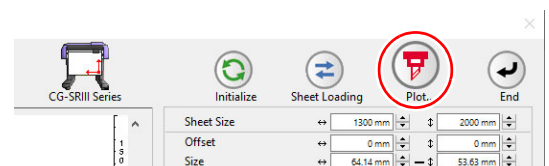
4

Click [Plot] button in the FineCut menu.



5

Click  (Plot button) on Plot screen.



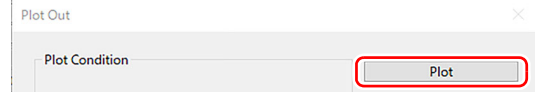
6

Set the plot condition and click [Plot].

( P.7-46 for details)



- When plotting with “Select Condition” or “Custom” selected, the setting of speed/ pressure/ offset of the plotter changes. To restore the setting, set the plotter to LOCAL mode and press the [TOOL] button.



Important!

- This function can be used on CF series (CF, DC, CF2, CF3 (except M-Head), /CFX (except R10-Head)series,CF22-1225 and CFL-605RT). Please note that it cannot be used on CG series.

Some shapes of blade can cut the start / end position of lines too much and scar the product while cutting thick media.

To avoid this, set to separate lines automatically and to cut in twice, from end to inside, or inside to end.

Cutting with the line separated

1

Select an object on Illustrator.

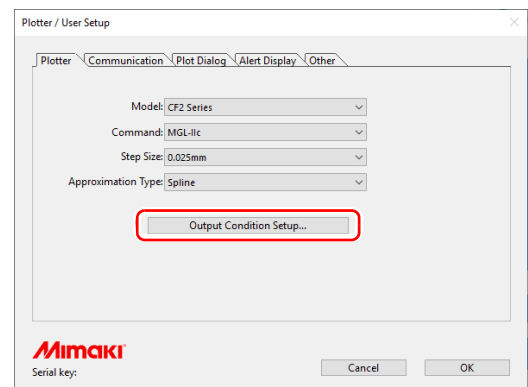
2

Click [Plotter / User Setup] button in the FineCut menu.



3

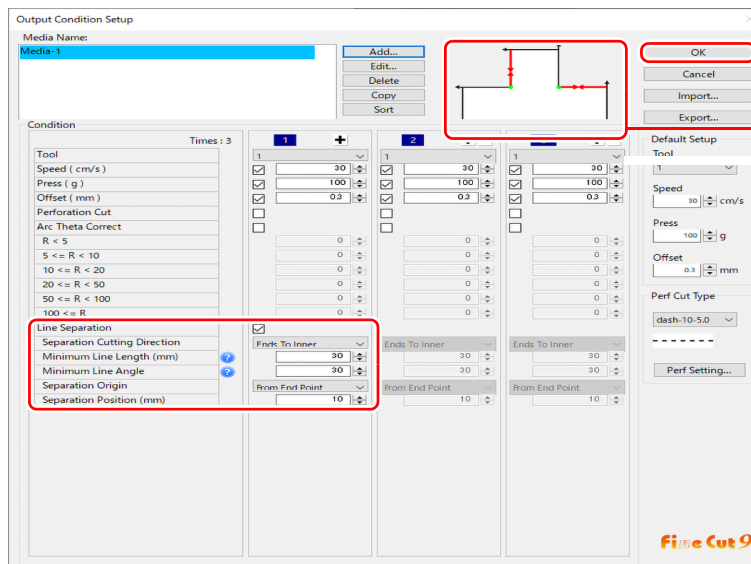
Click [Output Condition Setup...].



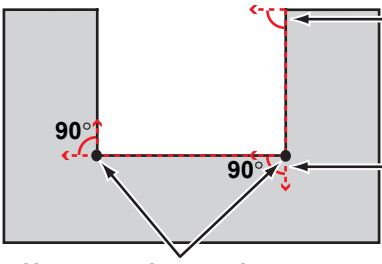
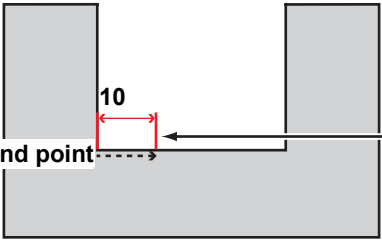
4

Set the line separation.

- After setting, click [OK].



Check the Separation cutting direction and the Separation position changing from the Separation origin. (Displays only when [Line Separation] is selected.)


| Item | Description |
|---|--|
| Line Separation | Check this. |
| Separation Cutting Direction | Select cutting direction of a separated line. Select according to the blade used. (☞ P.4-43) |
| Minimum Line Length (Default: 30 mm (recommended)) | Set the minimum length of the line to be separated. Only the longer line than this setting is separated, and the shorter one is not separated. (If separating a short line, it may not be able to cut finely.) |
| Minimum Line Angle (Default: 30 degrees (recommended)) | Set the minimum angle of the line to be separated. If the cutting line is inflected more than the set angle, the line is separated not the point to be cut too much. (However, if it is determined as outside of the object, it is not separated.) If inside (grey part) is <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Even if the angle to the next cutting is larger than the setting in the cutting direction, it is not separated because it is decided as outside of the object.</p> <p>If the angle to the next cutting is larger than the setting in the cutting direction, and if it could scar the object, the line is separated.</p> </div> </div> <p>Not to cut these points, the line is separated.</p> |
| Separation Origin | Set the origin position of the separating line. |
| Separation Position | Set the separating position of lines as a distance from [Separation origin]. <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Separated on 10 mm from the end point.</p> </div> </div> |

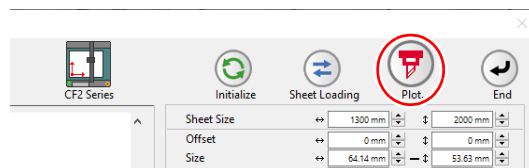
5

Click [Plot] button in the FineCut menu.



6

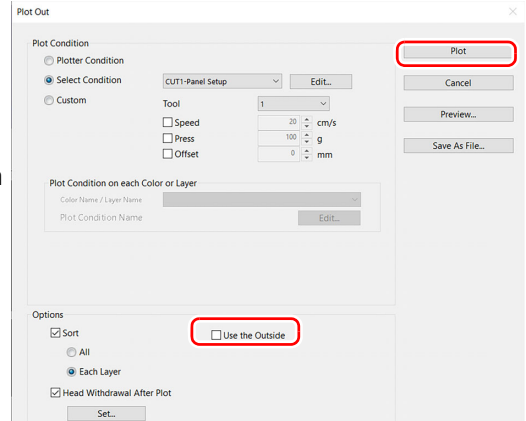
Click  (Plot button).



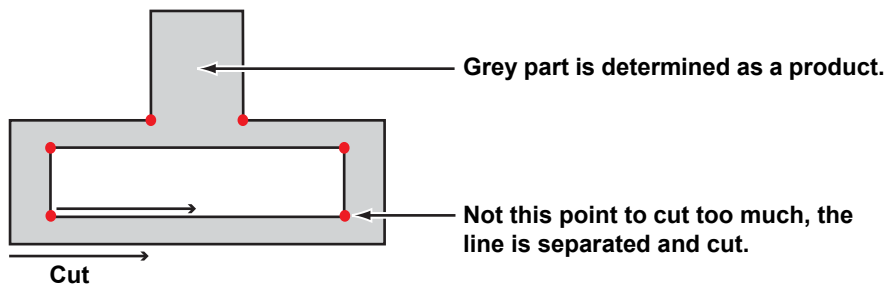
7

Set whether using the outside of the object or not on the Plot Out screen, and click [Plot].

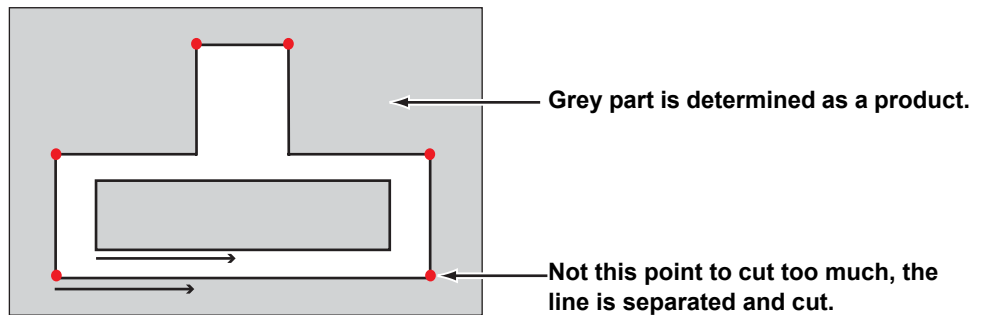
- The plotter determines as below depending on the setting, and cuts with the line separated.



If not checked on [Use the Outside] (default)

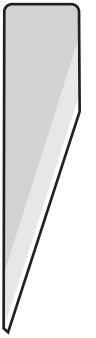
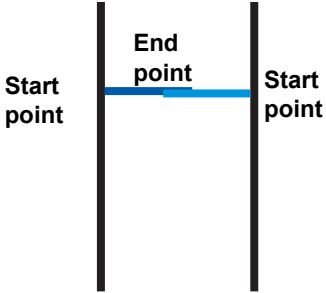
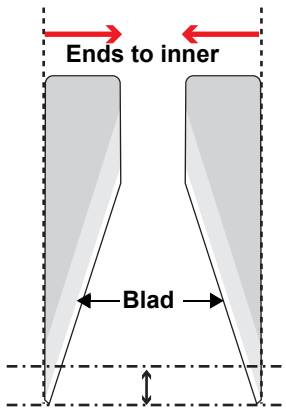
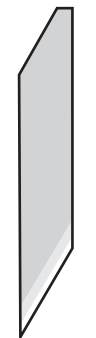
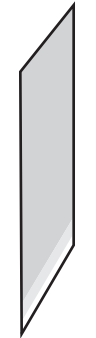


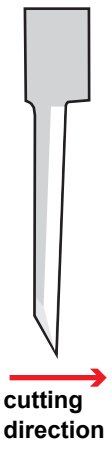
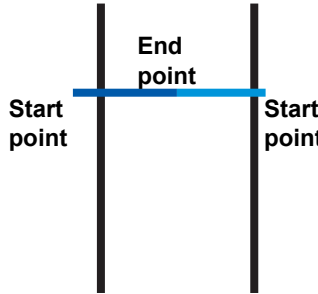
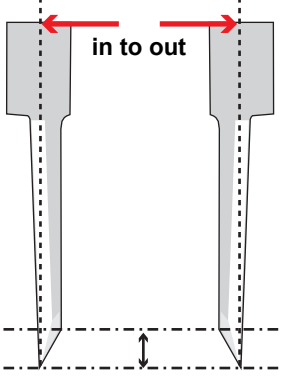
If checked on [Use the Outside]



The blade shapes and the setting of line separation

When cutting with a line separated, set referring to the example below to meet the the shape of the blade used. For more details regarding adjusting the eccentricity, refer to the Operation Manual of the main unit.

| Blade used | Product Code | Shape | Adjusted eccentricity value and Test cut pattern | Cutting direction with the line separated (☞ P.4-40) |
|--------------------------------|--------------|---|--|--|
| Carbide, 17° | SPB-0065 |  | (For carbide 17°)  | <p>Ends To Inner (No uncut part)</p>  |
| Carbide, 30° | SPB-0045 |  | <p>Adjust the value not the horizontal/vertical lines of the Test pattern A to protrude or gap.</p> <ul style="list-style-type: none"> • If protruded: Enter the protruded value by negative value. • If gapped: Enter the gapped value by positive value. | |
| Carbide design cutter, 30° | SPB-0051 | | | |
| High-speed steel blade 30° | SPB-0043 | | | |
| High-speed steel blade 30° 7mm | SPB-0048 | | | |
| Titanium-coated, 30° | SPB-0047 | | | |
| Carbide, 45° | SPB-0046 |  | <p>By adjusting as above, the horizontal lines overlap at the end point.</p> | |
| High-speed steel blade 45° | SPB-0044 | | | |
| Titanium-coated, 45° | SPB-0008 | | | |

| Blade used | Product Code | Shape | Adjusted eccentricity value and Test cut pattern | Cutting direction with the line separated (☞ P.4-40) |
|-------------|--------------|---|--|--|
| Carbide, 2° | SPB-0064 |  |  <p data-bbox="766 705 1133 806">Adjust the value to meet the horizontal lines of the Test pattern A at the end point.</p> <ul data-bbox="766 817 1133 996" style="list-style-type: none"> • If lines overlap: Enter the overlapped value divided by 2 by positive value. • If gapped at the end point: Enter the gapped value divided by 2 by negative value. <p data-bbox="766 1030 1133 1153">By adjusting as above, the horizontal lines protrude from the vertical line at the start point.</p> | <p data-bbox="1157 347 1460 470">In to out (No uncut part because the blade top comes to the end point.)</p>  |

Perforation Cut Setting

Important!

- This function is not available on the CF3 (M-head), CFX (R10), Gravotech LS series, Trotec Speedy series, and DCF-605PU.
- The perforation cut cannot be configured when using the creasing and V-cut tools in the CFX series.
- Different perforation cuts cannot be set for each row of times cut.

You can select the type of perforation cut (dash or dash-dot) and set/register the line (length to be cut or to be left).

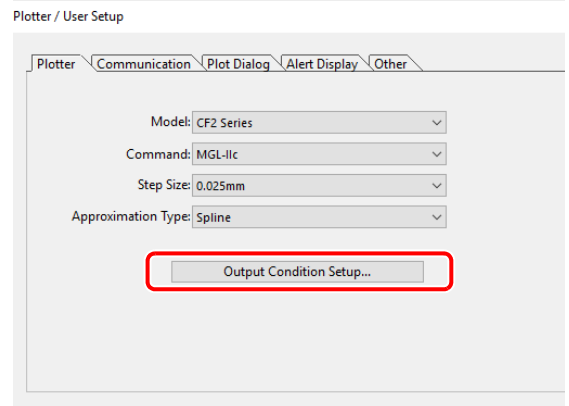
1

Click the [Plotter / User Setup] button in the FineCut menu.



2

Click [Output Condition Setup...].



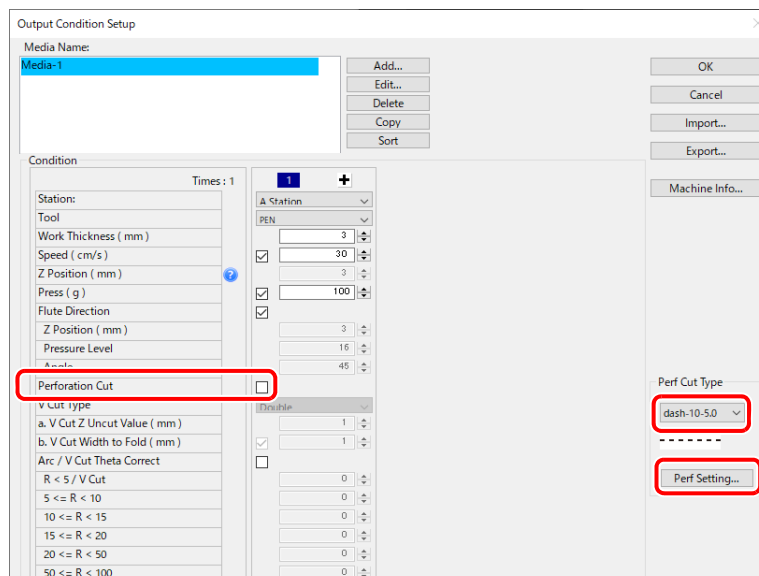
3

Set the perforation cut.

- Select the [Perforation Cut] checkbox in each row of the times cut.
- Click [Perf Setting].



- To make an existing perforation cut, select the type of perforation cut and then click [OK].

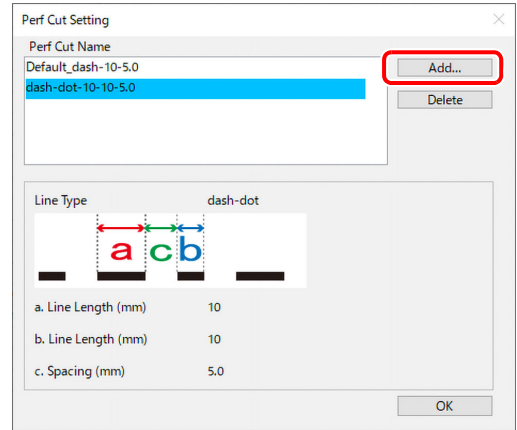


4

Advanced operations - from FineCut Menu

4

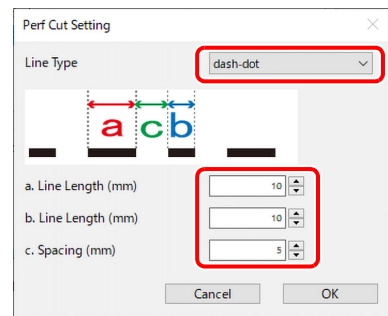
On the [Perf Cut Setting] screen, click [Add].

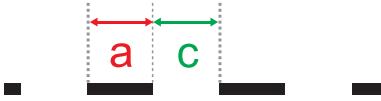
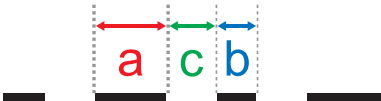


5

On the [Perf Cut Setting] screen, add new perforations.

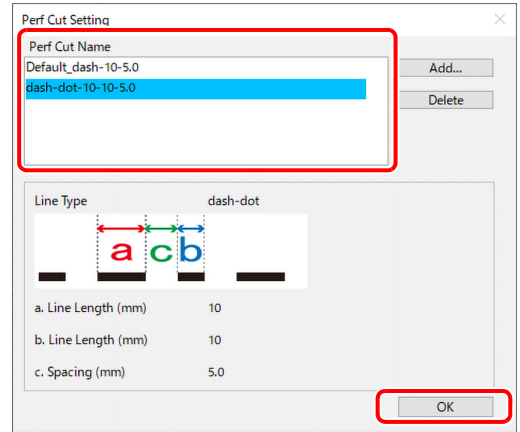
- Enter the new perforation settings you wish to add and then click [OK].



| Item | Description | Default |
|----------------|---|---------|
| Line Type | Select dash or dash-dot. <ul style="list-style-type: none"> • Dash  • Dash-dot  | Dash |
| a. Line Length | Set the length to cut. Range: 5 to 150 mm | 10mm |
| b. Line Length | Set the length to cut. Range: 5 to 150 mm | 10mm |
| c. Spacing | Set the length to leave. Range: 0.5 to 5 mm | 5mm |

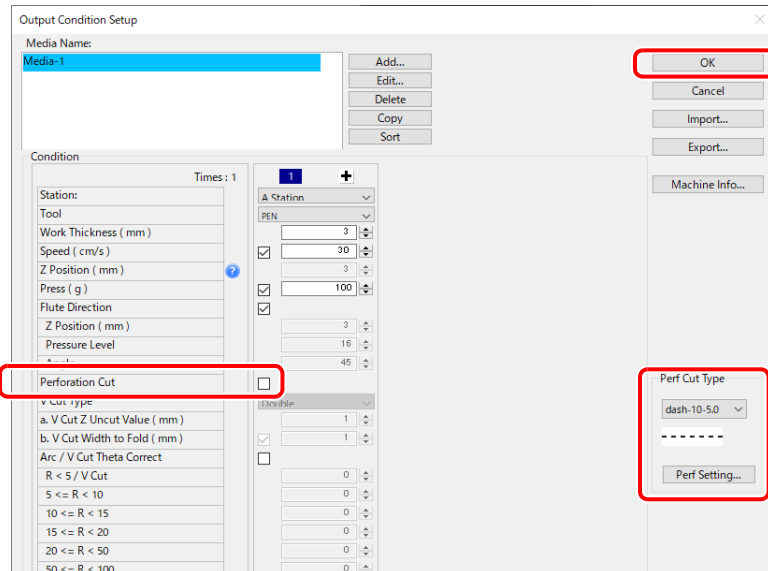
6

On the [Perf Cut Setting] screen, click [OK].



7


On the [Output Condition Setup] screen, select the perforation cut and then click [OK].



8

Click the [Plot] button in the FineCut menu.

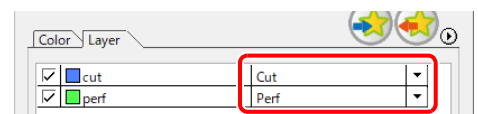



- If there are any objects on Illustrator that are not to be cut, select only the necessary objects and the register mark data, and then click the  [Plot Selected Path] button.



9

Use the plot condition setting for each color / layer to set the conditions for the perforation cut in the perforation cut data.



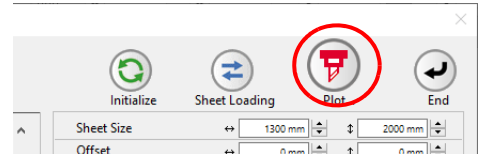
-  P.5-14 "Setting Output Condition on Each Color/Layer"

4

10



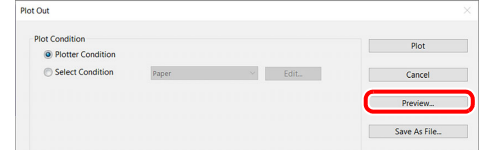
Click (Plot button).



11

Click [Preview] on the [Plot Out] screen.

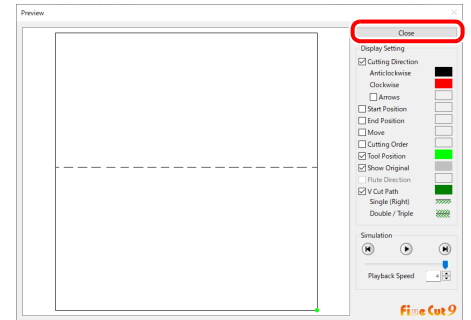
- The [Preview] screen is displayed.



12

Confirm that the [Preview] screen shows the correct perforation cut type and then click [Close].

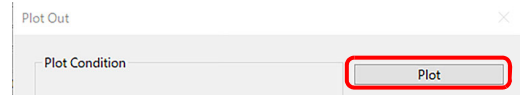
- P.5-29 "Checking the Cutting Process by Preview"
- The [Preview] screen will then close.



13

Set the plot conditions and then click [Plot].

- For details, refer to P.7-46.



CHAPTER 5

Advanced operations-from Plot Screen



This section describes the convenient usage from Plot screen.
To display Plot screen, click [Plot] button in the FineCut/Coat menu.

FineCut menu



FineCoat menu

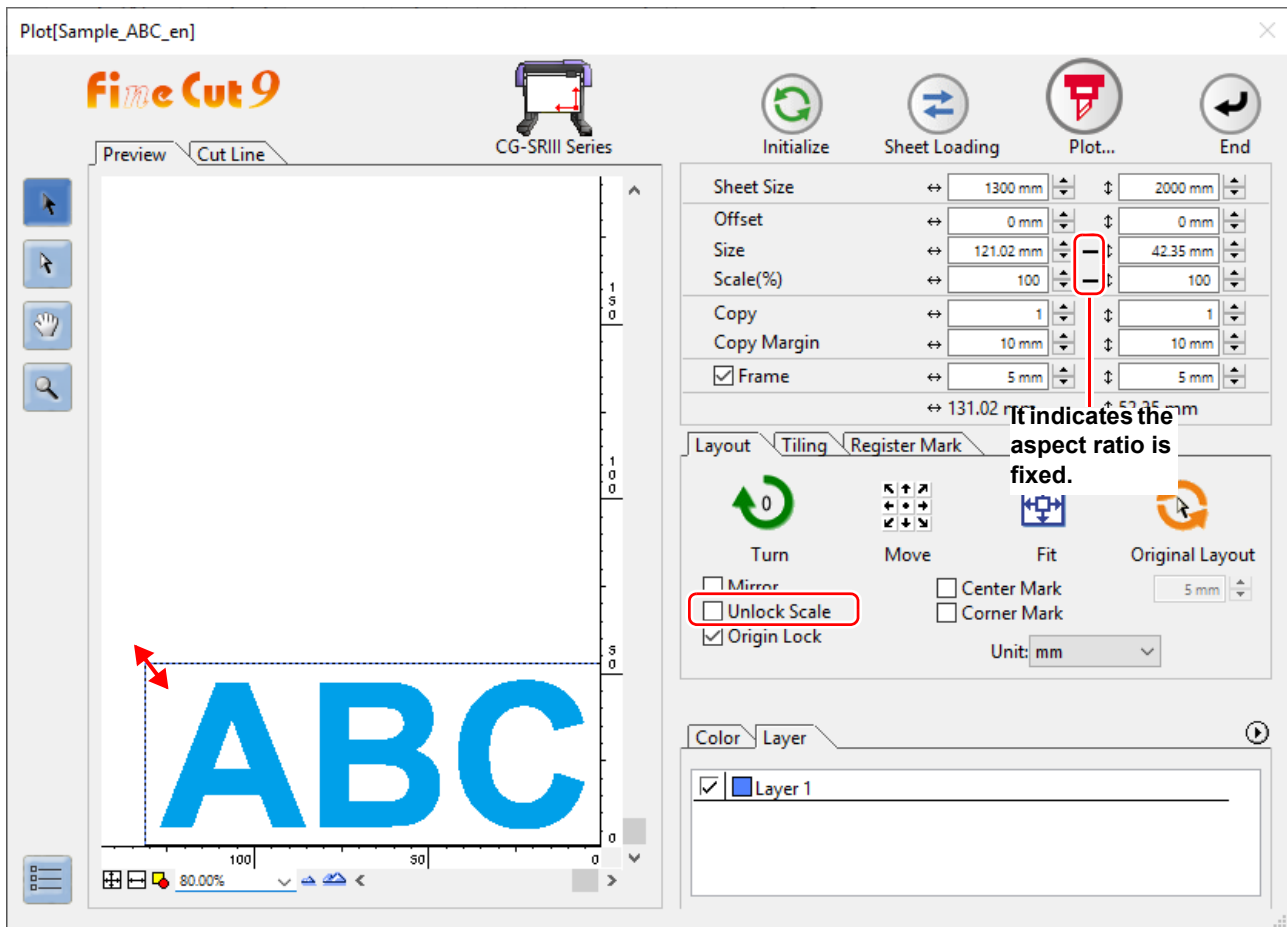


| | |
|--|------|
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| | |

Scaling an Object

Scaling an object with a fixed aspect ratio

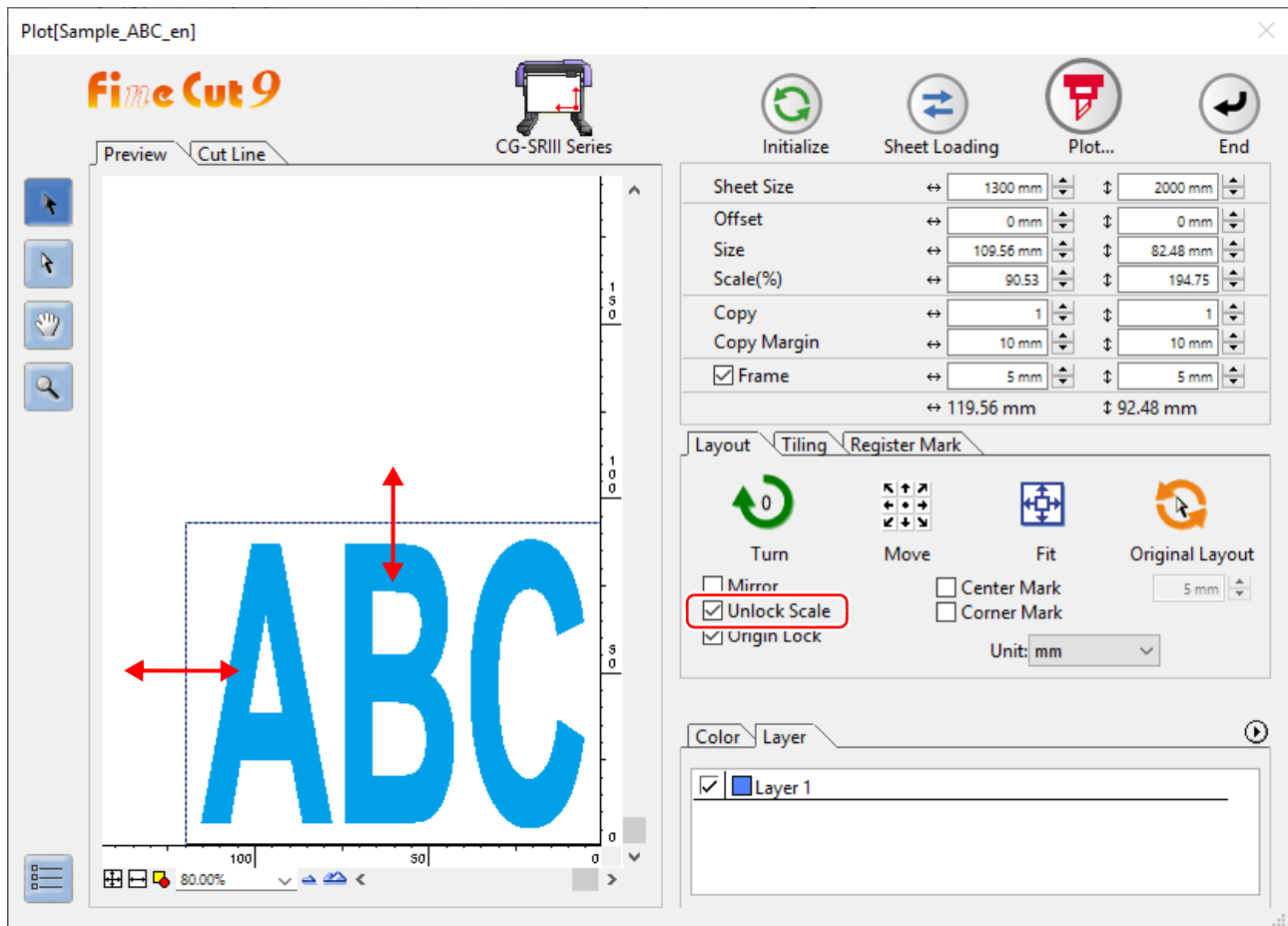
Click to uncheck [Unlock Scale] on the Layout tab.
Scale an object as dragging a corner of the object.



Scaling only width or length of an object

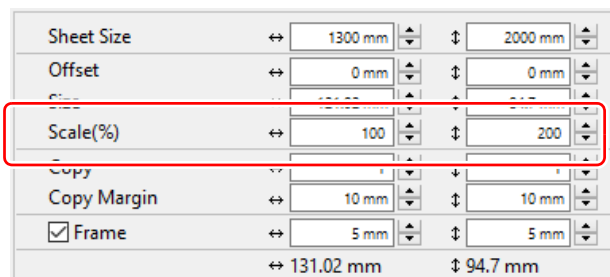
Check [Unlock Scale] on the Layout tab.

Scale an object as dragging the left or right corner or the top or bottom corner of the object.



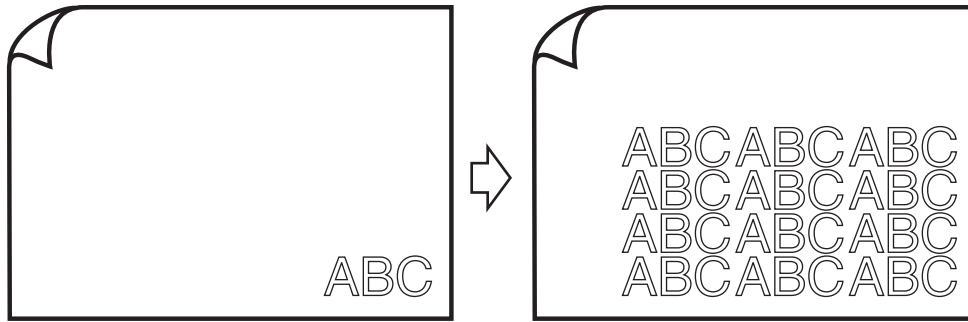
- To scale an object with the aspect ratio retained, check [Unlock Scale], and then drag the object while holding down the [Shift] key of the keyboard.
- To scale an object with the changed aspect ratio retained, change the width and length separately, and then uncheck [Unlock Scale].

To scale an object more precisely, enter the values on the [Size] and the [Scale].



Cutting an Object Multiple Times (Copy)

To cut an object multiple times vertically and horizontally, use Copy.
The following example shows how to cut ABC on A3-sized sheet.

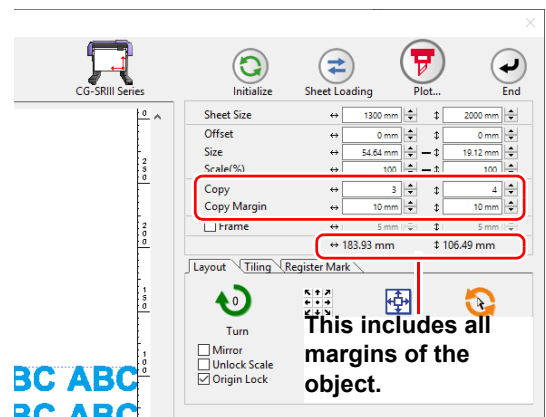


1

Set [Copy] and [Copy Margin].

Example:

- Copy:
Enter 3 for horizontal and 4 for vertical.
- Copy Margin:
Set the margin between objects (horizontally and vertically) to 10 mm.



2

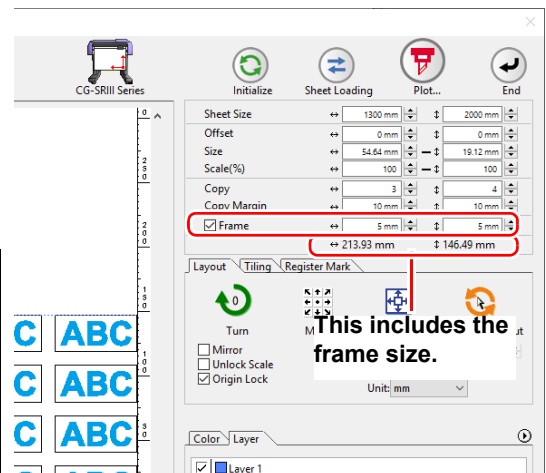
Check [Frame] and enter the size.

Example:

- Enter 5 mm each on the width and the length.
(The frame is put on 5 mm outside of the object.)

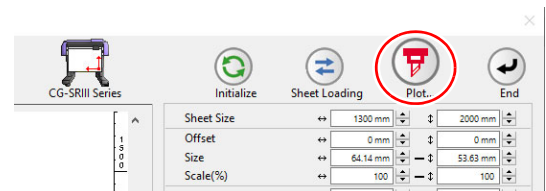
Important!

- When Frame is set, the frame is created for each object. You cannot enclose all the copied objects with a single frame.
- When using the [CF3 Series (M-Head)] or the [CFX Series (R10-Head)], please note the following two points.
 - Set [Copy Margin] to 10 mm or more.
 - Frame cannot be created.



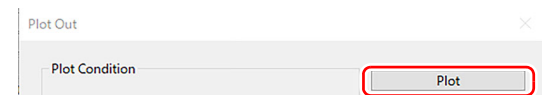
3

Click (Plot button).



4

Click [Plot] to start cutting.



Dividing and Cutting an Object (Tiling)

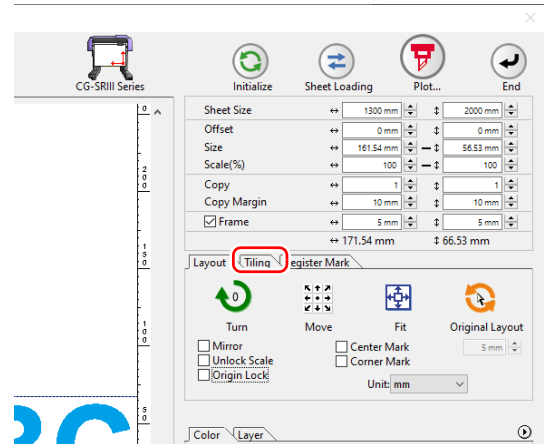
To create an object larger than the sheet width (signboard, etc.), divide and cut the object with Tiling. In this section, each divided object is called "Tile".

Important!

- When using the tiling function in CFL-605RT/CF22-1225, you cannot use ID cut.
- Multiple tiles cannot be output at once when the Gravotech LS series is selected. Tiles must be output one at a time.
- When using "DCF-605PU (Digital coating machine)", this function cannot be used.

1

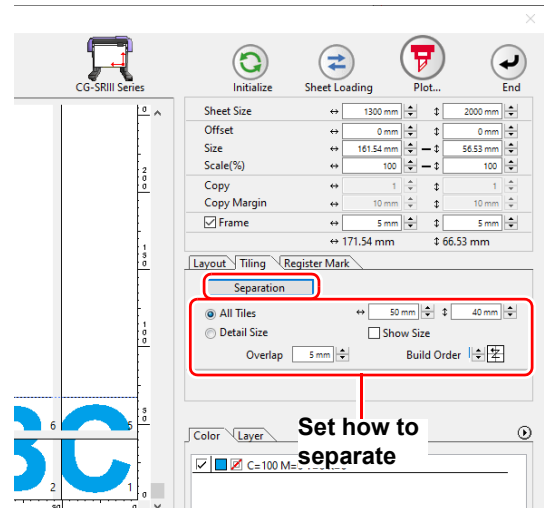
Click [Tiling] tab.



2

Set how to separate, and click [Separation].

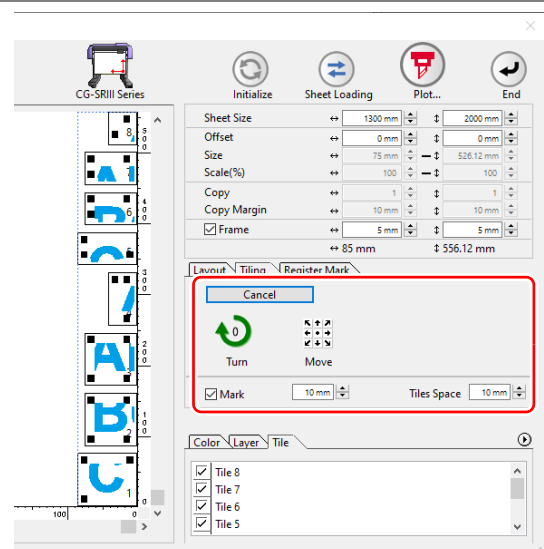
- (P.7-40 "11 Tiling (P.5-5) ")



3

Divided objects are displayed. Set the tile position or others.

- (P.7-40 "11 Tiling (P.5-5) ")



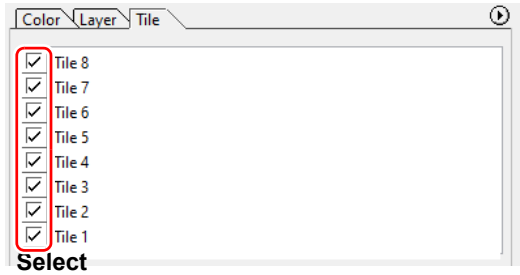
5

Advanced operations-from Plot Screen

4

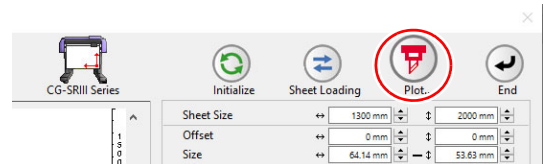
Select tiles to cut from the tile list.

- You cannot output multiple tiles at once when the Gravotech LS series is selected. Output one tile at a time.



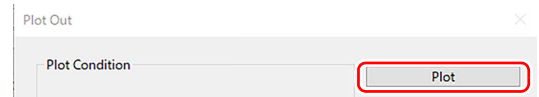
5

Click (Plot button).



6

Click [Plot] to start cutting.



Positioning Mark

Important!

- This function is not available when using the [CF3 Series (M-Head)] or [CFX Series (R10-Head)], the Trotec Speedy series, or the DCF-605PU (digital coating machine).

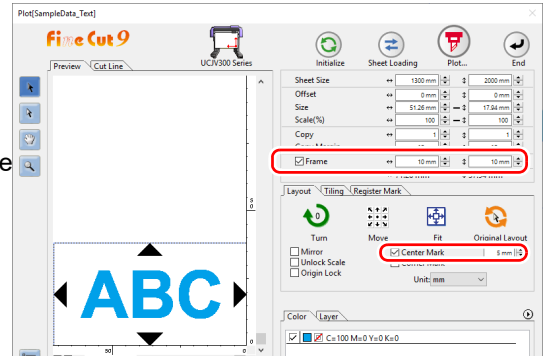
To affix cut stickers to the expected position, mark an object frame.

Center mark

1

Set the center mark.

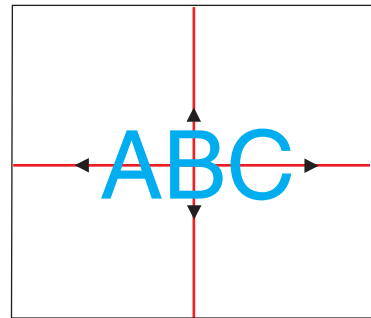
- (1) Check [Frame].
[Center Mark] in [Layout] tab becomes effective.
- (2) Check [Center Mark] in [Layout] tab, and enter the mark size.
- (3) Then set others, print, and cut the object.



2

Attach the cut seal.

- (1) Determine the center of the sticker and draw ruled lines.
- (2) Align the center marks with the ruled lines;
Enables the sticker to affix to the expected position.

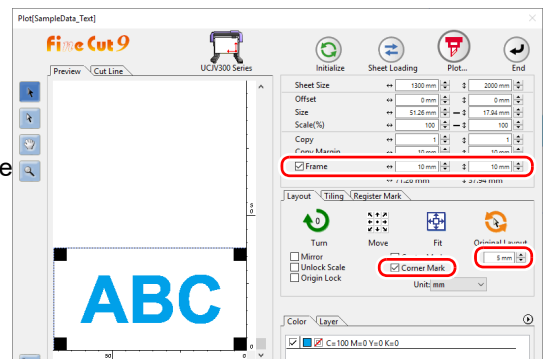


Corner mark

1

Set the corner mark.

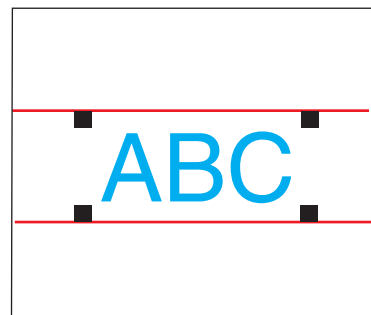
- (1) Check [Frame].
[Corner Mark] in [Layout] tab becomes effective.
- (2) Check [Corner Mark] in [Layout] tab, and enter the mark size.
- (3) Then set others, print, and cut the object.



2

Attach the cut seal.

- (1) Draw ruled lines.
- (2) Align the corner marks with the ruled lines;
Enables the stickers to affix horizontally.



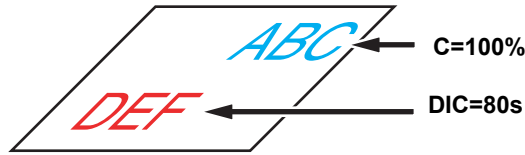
5

Advanced operations-from Plot Screen

Cutting an Object on Each Color

If an object consists of multiple colors on Illustrator, you can cut out the specified color object.

This describes how to cut out the Cyan (C=100%) colored object "ABC" of the following example.

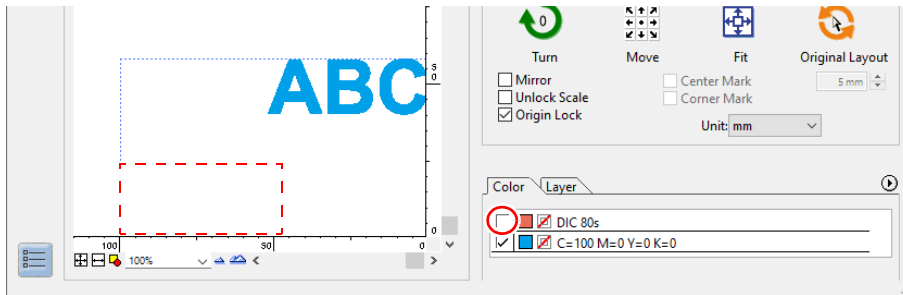



1 Click [Plot] button in the FineCut menu.

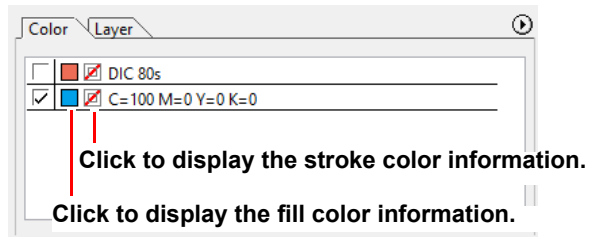


2 Uncheck the color set (DIC 80s) of "DEF" on the example above.

- The object "DEF" disappears from the cutting area.



Color List
The color list displays all colors (including DIC and other special colors) used for the object. It also displays the colors of fill and strokes of the object. To specify the output condition, click the  button on the upper right of the list.



3

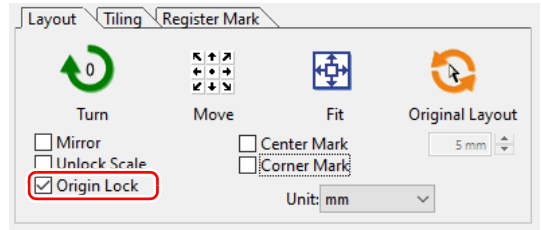
Set [Origin Lock].

- To cut out the object on the created position, check [Origin Lock].
 - If unchecked, the origin position is cut.
- The origin position varies by model.

Bottom right: CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330, CF3, CFX series

Bottom left: CF, CF2, DC series, CFL-605RT, CF22-1225, DCF-605PU (Digital coating machine)

Top left: Trotec Speedy series, Gravotech LS series



Origin: bottom right
Origin Lock: Checked

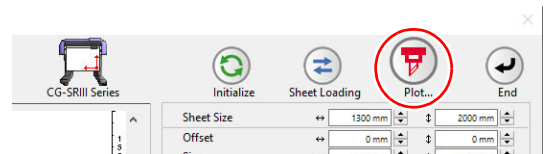


Origin: bottom right
Origin Lock: Unchecked



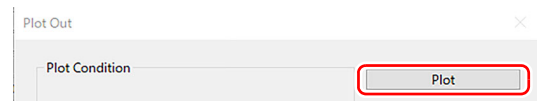
4

Click  (Plot button).



5

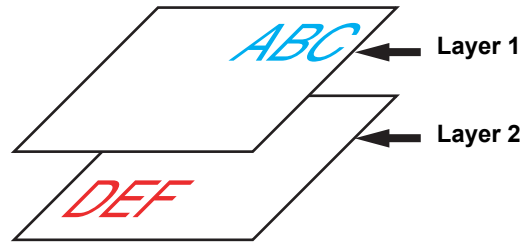
Click [Plot] to start cutting.



Cutting an Object on Each Layer

If an object consists of multiple layers on Illustrator, you can cut out the object on the specified layer.

This describes how to cut out “ABC” on the layer 1 of the following example.

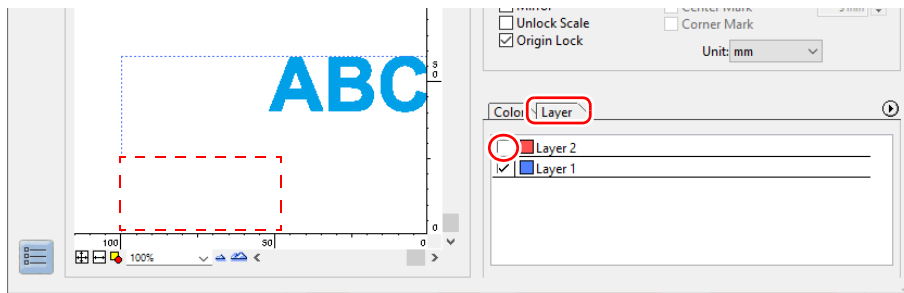


1 Click [Plot] button in the FineCut menu.



2 Click [Layer] tab and uncheck the layer of “DEF” on the example above.

- The object “DEF” on the layer disappears from the cutting area.



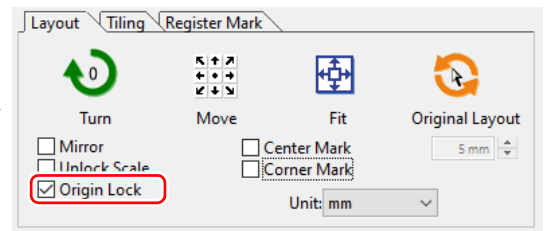
3 Set [Origin Lock].

- To cut out the object on the created position, check [Origin Lock].
 - If unchecked, the origin position is cut.
- The origin position varies by model.

Bottom right: CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330, CF3, CFX series

Bottom left: CF, CF2, DC series, CFL-605RT, CF22-1225, DCF-605PU (Digital coating machine)

Top left: Trotec Speedy series, Gravotech LS series




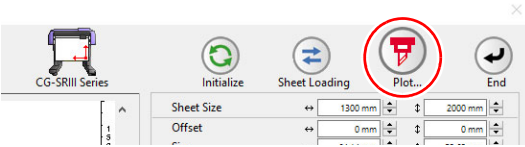
Origin: bottom right
Origin Lock: Checked



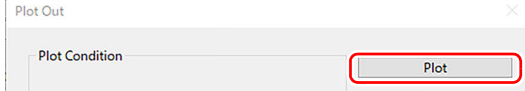
Origin: bottom right
Origin Lock: Unchecked



4 Click  (Plot button).



5 Click [Plot] to start cutting.



Setting the Output Order/Tool on Each Color/Layer

Important!

- When using the Trotec Speedy series or the Gravotech LS series, you cannot specify the tool on each color or layer.
- When using DCF-605PU (Digital coating machine), this function cannot be used.

By specifying output order or the tool by color or layer, objects can be cut more smoothly and finely according to the tool characteristic or cutting shapes.

By specifying the tool by color or layer, the order of the several tools' operation can also be set.

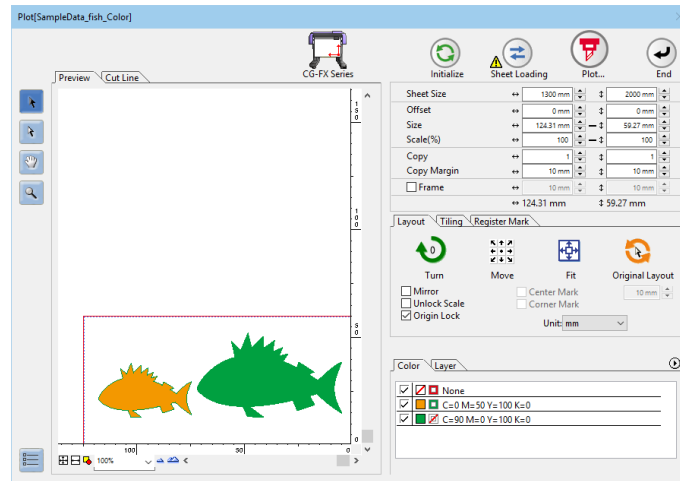
In CF, CF2, DC, CF3 series, CFL-605RT and CF22-1225, you can cut and make a ruled line at one time by specifying tools on each color or layer.

With the CG-AR series, specifying tools for individual colors or layers causes plotting/cutting/creasing to pause when the tool needs to be changed, and a message to replace the tool appears on the main unit display. Replace the tool as directed by the message. Note that the message appears only when replacing the tool as shown below. It does not appear when replacing pen → cutter or cutter → pen. Be careful.

- Creasing tool → pen/cutter (The creasing tool is optional with the CG-AR series)
- Pen/cutter → creasing tool

Note that objects are normally output in order from the bottom to the top of the color/layer list.

This describes how to cut the red frame first with the tool [HLF] of the following example.



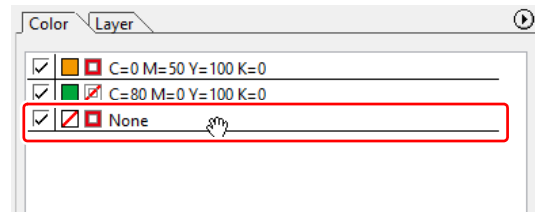
1

Click [Plot] button in the FineCut menu.



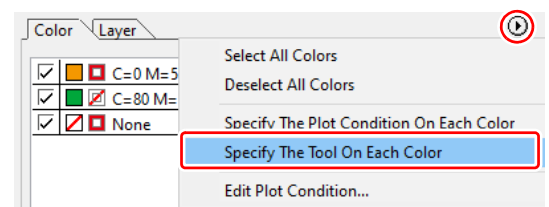
2

Drag the red in the color list to the bottom.



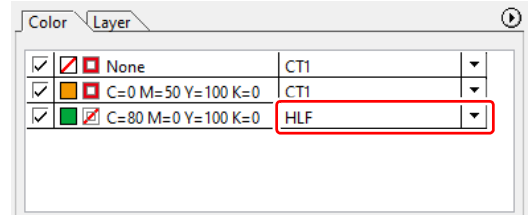
3

Click the upper right button of the list and select [Specify The Tool On Each Color (or Layer)].



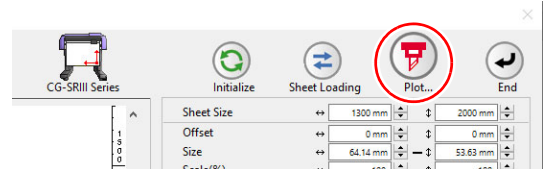
4

Select [HLF] for tool.



5

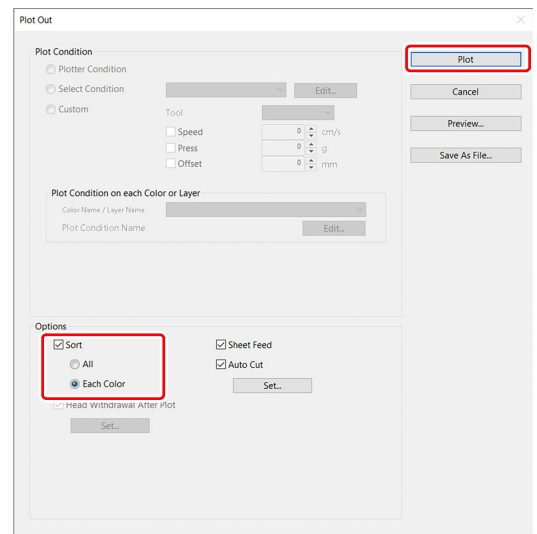
Click  (Plot button).



6

Check [Sort], select [Each Color (or Each Layer)], and click [Plot].

- The object is output in the specified order.



Setting Output Condition on Each Color/Layer

Important!

- When using “Gravotech LS Series” or DCF-605PU (Digital coating machine), this function cannot be used.

Output condition can be set on each color or layer.

For a fine object or small characters, create an object on each color or layer, and set the appropriate output condition (lowering cutting speed, etc.) for each. The objects can be cut finely.

For the CF, CF2, DC, CF3, CFX series, the CFL-605RT, and the CF22-1225, it is possible to cut and crease at once by specifying the plot conditions for each color or layer.

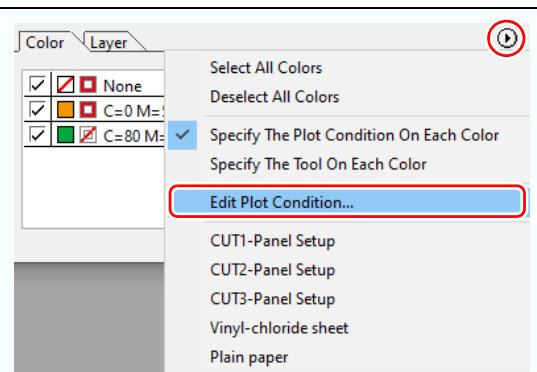
With the CG-AR series, specifying tools for individual colors or layers causes plotting/cutting/creasing to pause when the tool needs to be changed, and a message to replace the tool appears on the main unit display. Replace the tool as directed by the message. Note that the message appears only when replacing the tool as shown below. It does not appear when replacing pen → cutter or cutter → pen. Be careful.

- Creasing tool → pen/cutter (The creasing tool is optional with the CG-AR series)
- Pen/cutter → creasing tool

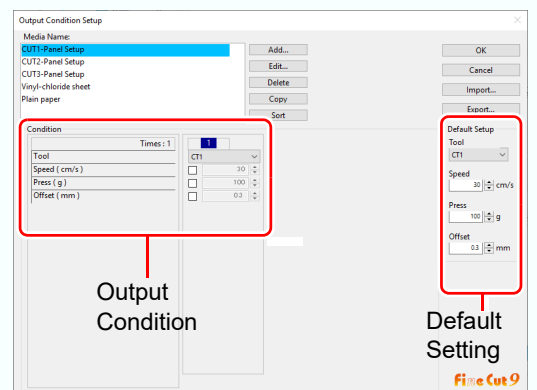
Note that objects are normally output in order from the bottom to the top of the color/layer list.

Important!

- To edit the output conditions, click the button on the upper right of the list, and select [Edit Plot Condition...].

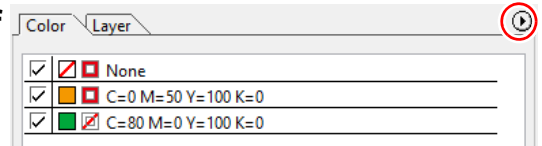


- If set the tool number in the output conditions, check the settings of the tool of plotter side.
- There are tools that can not be used depending on plotter's specifications when selecting a tool name (pen, cutter, etc.) in the [Tool] of the output condition. Before selecting the tool name, check the available tools in the Operation Manual of the main unit.
- When items are unchecked or a frame /center mark / corner mark is specified, the media is cut by the default settings. (In the case of the CJV30, TPC, CJV300/150, CJV300Plus, CJV330, CJV200, UCJV300/150, UCJV330, CF3, or CFX series, cutting is performed according to the setting value of the plotter.)
- Check the pen number allocation of plotter side, and set of FineCut.
- If use the tool of B unit in the CFL-605RT, ruling roller, reciprocating cutter, tangential cutter can not be used at the same time. In the case of "cut with reciprocating cutter after ruling" or so, output the cut data for each tool.
- When specifying the output conditions on each color or layer, you cannot use the setting on the plotter. Make sure to set the all conditions (Speed/Press/Offset) in the FineCut.



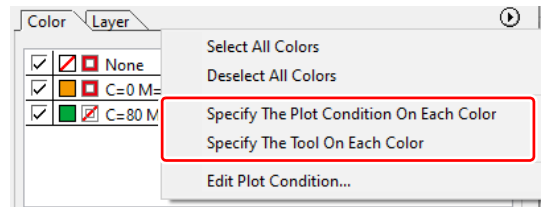
1

Click the button on the upper right of the color list (or layer list).



2

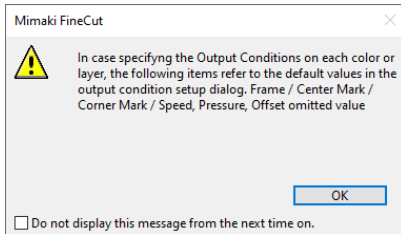
Select [Specify The Plot Condition On Each Color (Layer)].



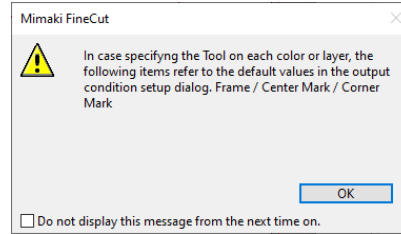
3

If the following screen appears, click [OK] .

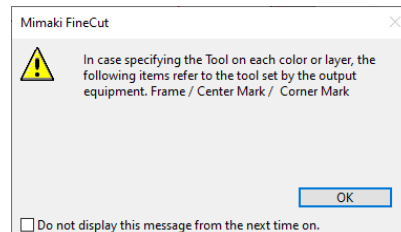
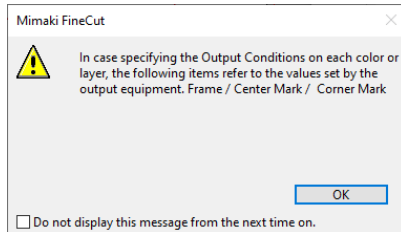
When [Specify The Plot Condition On Each Layer (Color)] is selected:



When [Specify The Tool On Each Layer (Color)] is selected:



When CF3, CFX, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series is used

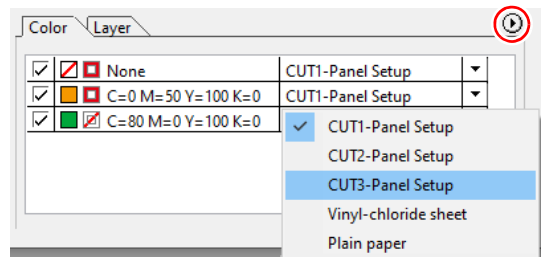


4

Set the output condition.

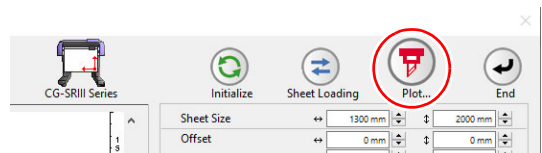
- Click the button on the right of the condition, and select from the set condition.

When [Specify The Plot Condition On Each Color] is selected:



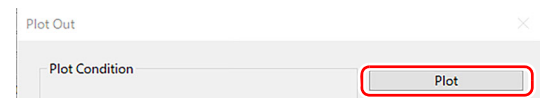
5

Click  (Plot button).



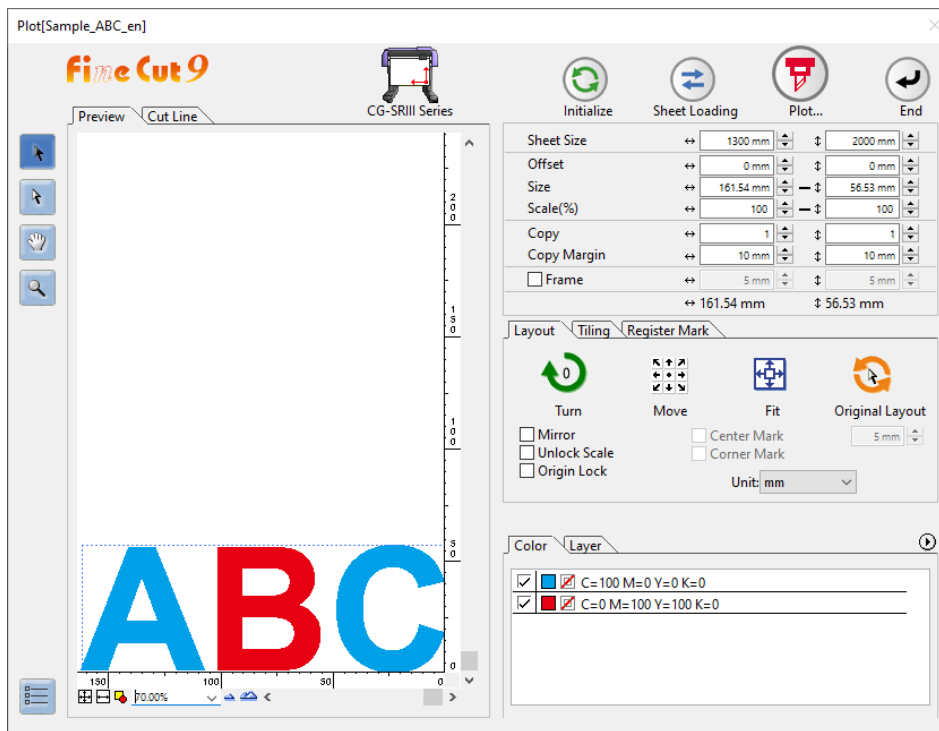
6

Click [Plot].



Making Effective Use of Sheet

When cutting ABC with different colors each by color as the example below, if A and C are cut, the space of B becomes blank as B has different color. Move the cutting object to the blank part to cut without wasting blank.



1

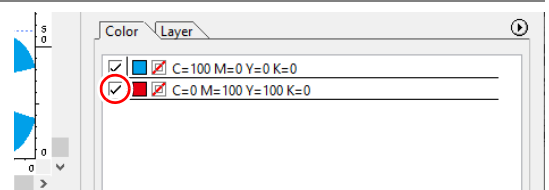
Click [Plot] button in the FineCut menu.



2

Hides objects that are not plotted.

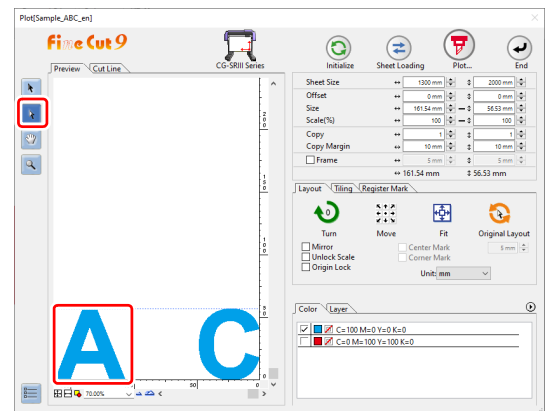
- In the example on the right, uncheck the red color on the [Color] tab. The letter "B" disappears.



3


Select an object to move using the (Direct Select Tool).

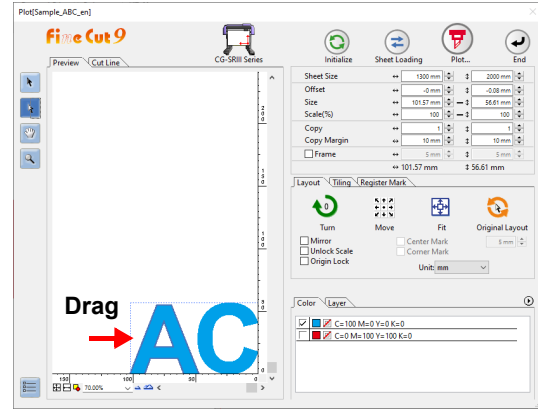
- Select "A" for the example shown on the right.



4

Drag the selected object to the desired position.

- To replace the object to the original position, click  (Original Layout button).

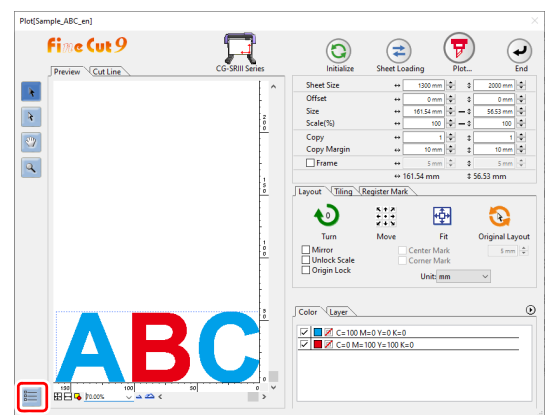


Setting Connection to the Plotter

The connection to the plotter can be checked or set on the Plot screen.


1

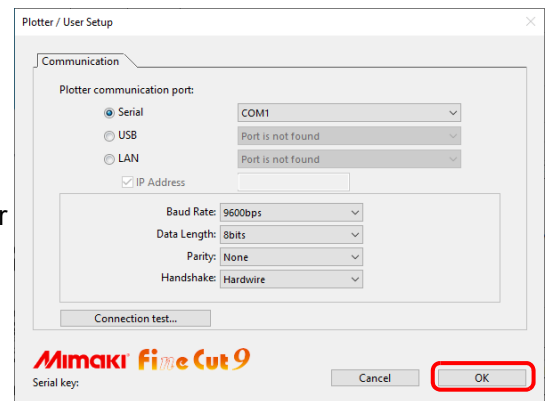
Click  (Plotter / User Setup button).



2

Select the communication port, and click [OK].

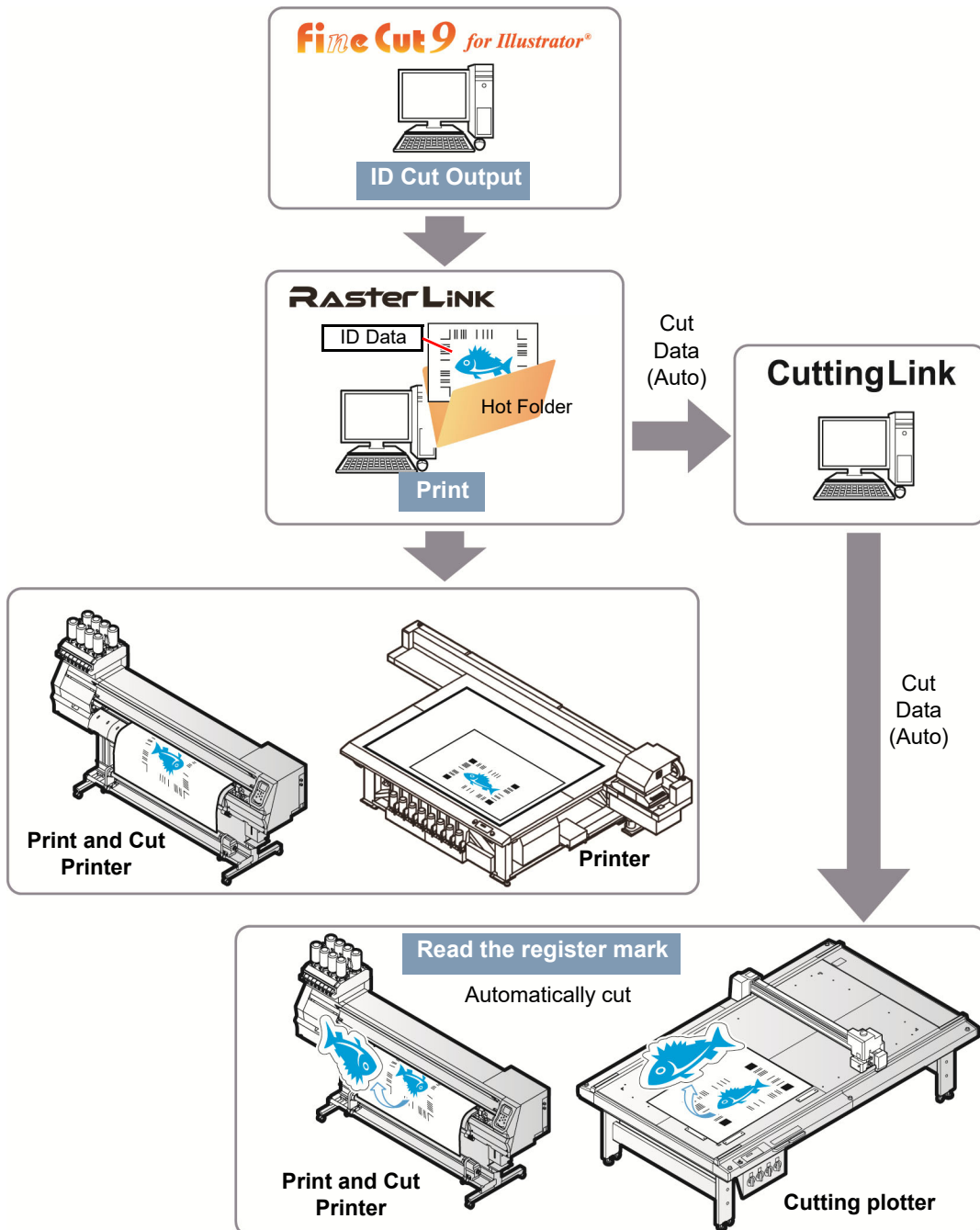
- If needed, click [Connection test] to check the connection to the plotter.
- For more details regarding other settings, refer to ( P.7-26).



Link Cut and Print (ID cut)

It is a function to automatically cut data when printing a data with ID with printer and detecting ID with cutting plotter. It is available when using the CG-FXII Plus, CG-AR, CJV300Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CF22-1225, or CFX series. You can download the "ID Cut Guide" from the Mimaki website (<https://mimaki.com/download/software.html>).

● ID Cut Operation Flow



● Differences from the [Output to RasterLink] function

When using the CFL_605RT, CF22-1225, or CFX series for cutting, you can add complex cutting conditions that cannot be set with RasterLink (such as Specify Cutting Start Position P.6-4, Specify Cutting Direction P.6-6, Multiple Cutting, and Cutting with Lines Separated P.4-40).

Preparation

The following software applications are required for ID cut. All software applications are provided by MIMAKI ENGINEERING CO., LTD.

| Software Name | Description |
|---------------|--|
| FineCut | Cutting software (supplied with the plotter) |
| RasterLink | Software to receive image data, edit data with various functions, and send plot data to the printer. |
| CuttingLink | Software to manage ID cut |

Refer to "ID Cut Operation Guide" for the detailed.

1

Install CuttingLink.

- If CuttingLink is already installed, please skip this step.

2

Register the plotter (CG-FXII Plus, CG-AR, CJV300Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CF22-1225, CFX series) on CuttingLink.

- If plotter is already registered, please skip this step.

3

Start RasterLink and connect to CuttingLink.

- If RasterLink is already connected to CuttingLink, please skip this step.

4

Check that CuttingLink is started.

Check

1

Click the [Plotter/User Setup] button in FineCut menu.

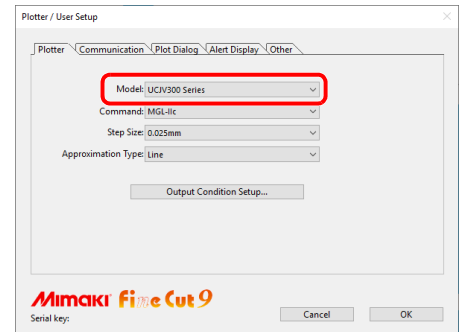


2

Make sure that one of the following plotters is selected in [Plotter].

- CG-FXII Plus series
- CG-AR series
- CJV300 Plus series
- CJV330 series
- CJV200 series
- UCJV150/UCJV300 series
- UCJV330 series
- CFL-605RT
- CF22-1225
- CFX series
- CFX series (R10-head)

Make sure that you use a model specified here to perform cutting.



Create data

Create data with Illustrator.

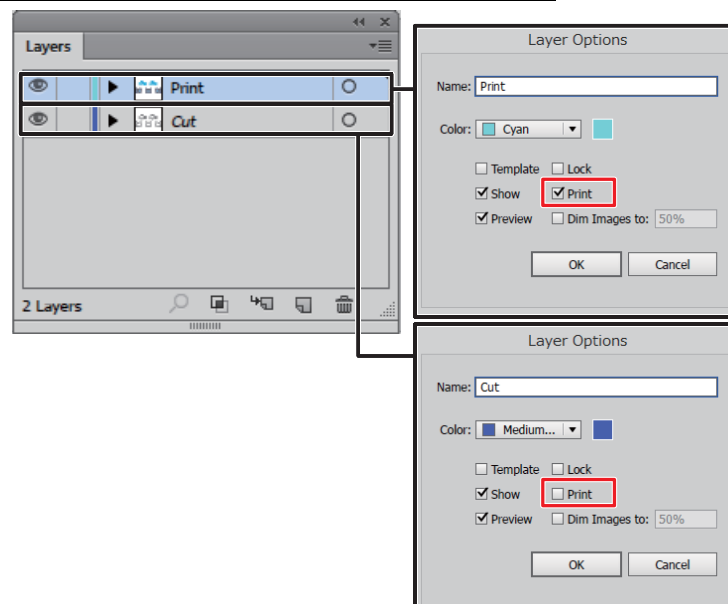
Make sure that all output data, including register mark, fits within the Illustrator's artboard.

1

Set the layer attribute.

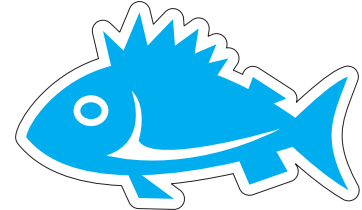
- To output smoothly, set the printing layer and cutting layer beforehand.

| Print attribute on Illustrator. | Output |
|---------------------------------|--------|
| ON | Print |
| OFF | Cut |



2

Create illustrations and cut lines to print with Illustrator.



- You can create a cut line using the [Frame Extraction] function (P.3-4). The print attribute of "FC Frame Layer*" created at frame extraction execution is set to OFF.

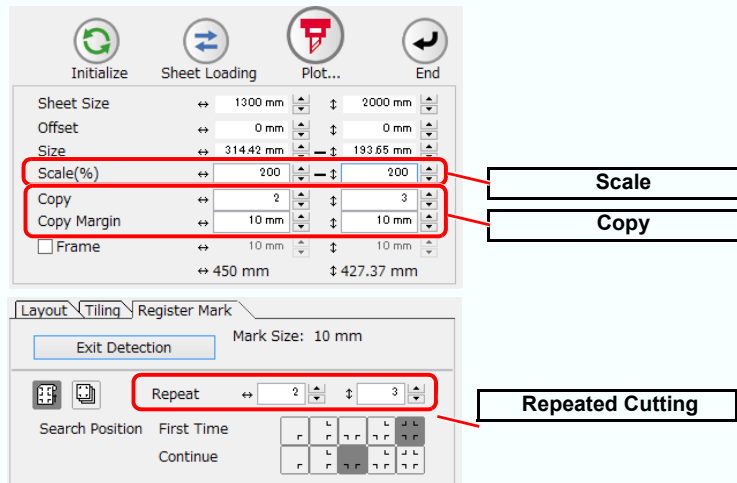
Important!

If you copy (P.5-4) or scale (P.5-2) on the FineCut [Plot] screen, it will be reflected in the print data. Also, after recognizing the register mark on the [Plot] screen, if you specify the number of consecutive times, the specified number of data is copied and reflected in the print data.

When creating data on Illustrator/CorelDRAW, please do as follows.

- When scaling on the [Plot] screen, make it the full size.
- When copying on the [Plot] screen, make only one original data.

[Plot] screen of FineCut



3

Create a register mark with FineCut.(Arbitrary except CFX series)

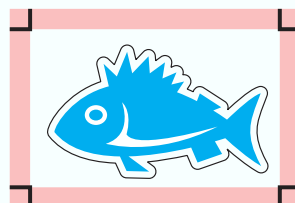
(CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV150/300, UCJV330 series: P.3-9, CFL-605RT: P.3-13, CF22-1225: P.3-16), CFX series: P.3-19.



- Do not create a register mark in FineCut if you want to copy data, setting print conditions, or composition in RasterLink except CFX series.
- When using the CG-AR, CJV300 Plus, CJV330, CJV200, UCJV150/300, UCJV330 series, ID cut output can not be done by adding an intermediate register mark.
- When using the CFL-605RT, CF22-1225, or CFX series, ID cut output is not possible if a separation mark is created.
- The print attribute of "FC RegisterMark Layer*" created when register marks are created is set to ON.
- When register marks are not created with FineCut, register marks are automatically added by RasterLink.

Important!

- Do not position data on the register mark lines. Otherwise, an ID might be added on the data by RasterLink.



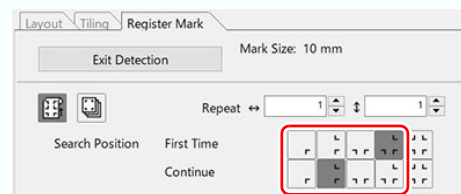
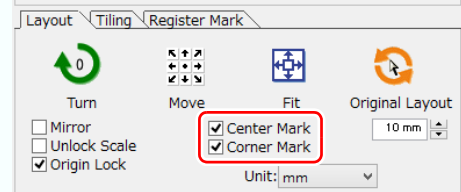
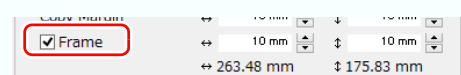
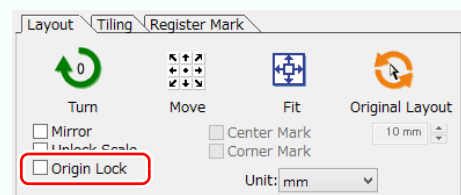
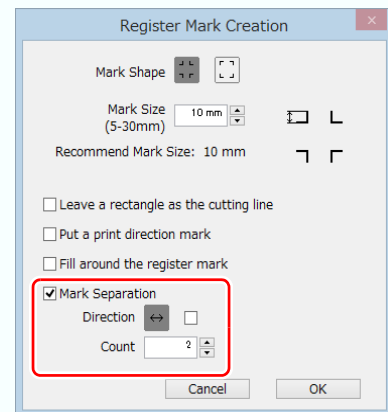
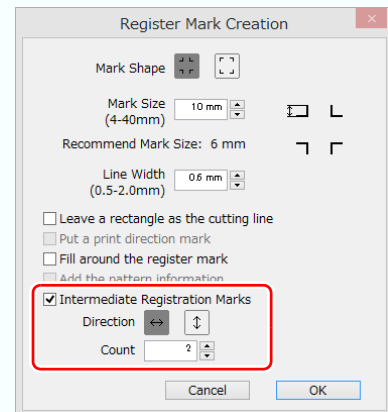
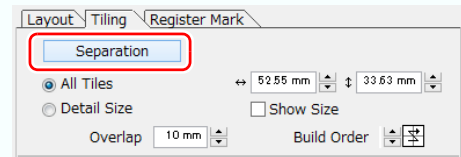
On the line of register mark lines

ID Cut Procedure

Important!

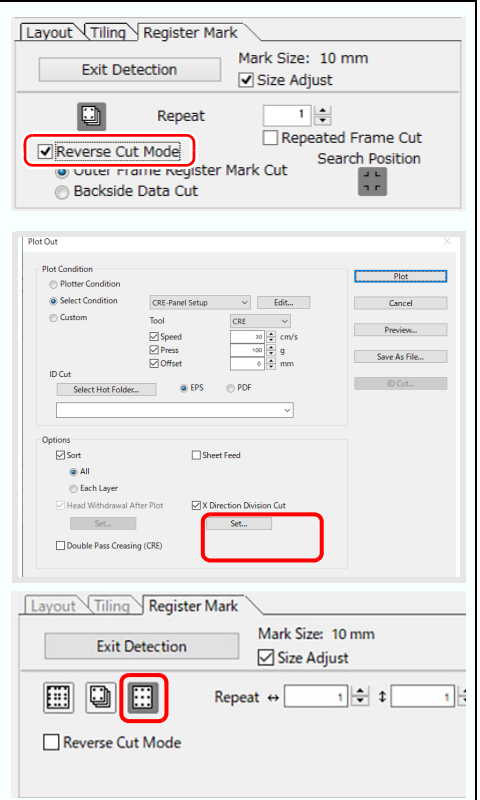
ID cut can not be performed when the following functions are used.

- When the [Separation] on the [Tiling] tab of [Plot] Screen is used.
- When register marks are recognized by adding [Intermediate Registration Marks].
- When register marks are recognized by adding [Mark Separation].
- When [Origin Lock] is set to OFF on the [Layout] tab of [Plot] Screen.
- When [Frame], [Center Mark] and [Corner Mark] are added on the [Layout] tab of [Plot] Screen.
- When other than 4 points are specified [Search Position] on the [Register Mark] tab of [Plot] screen.



Important!

- When using CFL-605RT
When the [Reverse Cut mode] is selected after recognizing register marks on the [Plot] screen - [Register Mark] tab.
- When using CG-AR series
When [X Direction Division Cut] is checked on the [Plot Out] screen.
- When using the CFX series
When not detecting register marks, or when detecting free register marks, or when detecting register marks in No Margins Mode, or when detecting round register marks

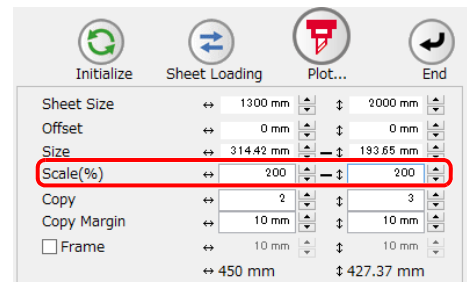
**1**

Click [Plot] button in the FineCut menu.

**2**

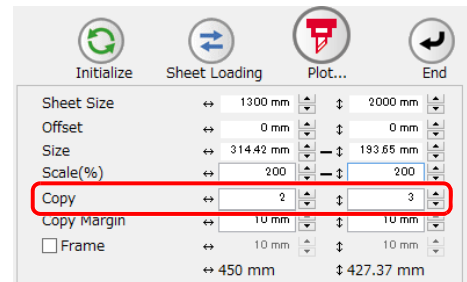
Make sure to enlarge or reduce the data. (Arbitrary)

- Set [Scale].
- If you scale on the FineCut [Plot] screen, it will be reflected in the print data.
- P.5-2 "Scaling an Object"
- If register marks are created, scaling values are not applied.
- Make sure that you use FineCut to enlarge or reduce the data. You cannot use RasterLink to enlarge or reduce the data.

**3**

Copy the data. (Arbitrary)

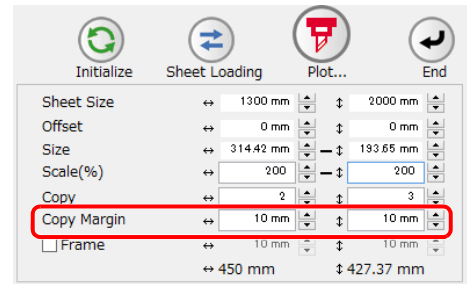
- Set [Copy].
- If you copy on the FineCut [Plot] screen, it will be reflected in the print data.
- P.5-4 "Cutting an Object Multiple Times (Copy)"
- If register marks are created, copy settings will be invalid.
- Do not copy the data in FineCut if you want to copy the data in RasterLink.



4

Set [Copy] and [Copy Margin].

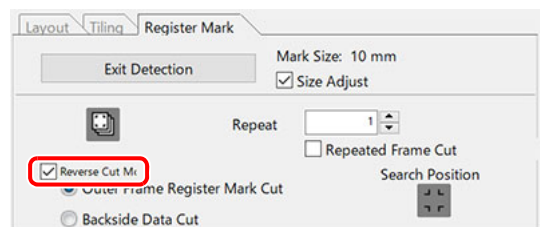
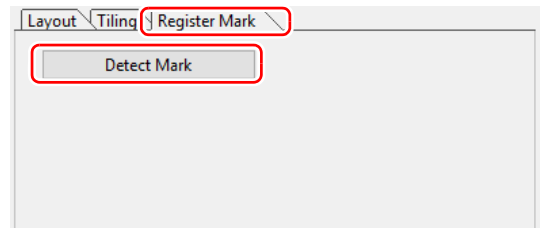
- The value set here is used if data was copied in Step 3 or when cutting by continuously detecting register marks created in FineCut.
- [Copy Margin] does not need to be set if data is copied using RasterLink or if register marks created in FineCut are not continuously detected.



5

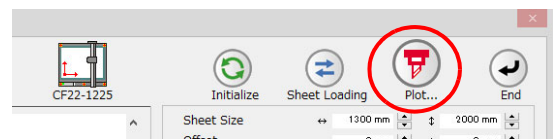
When register marks are created, click [Register Mark] tab and click [Detect Mark].

- (CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV150/300, UCJV330 series: P.3-28, CFL-605RT: P.3-45, CF22-1225: P.3-61, CFX series: P.3-67)
- When using the CFL-605RT, if [Reverse Cut Mode] is selected, ID cut can not be performed.



6

Click (Plot button).

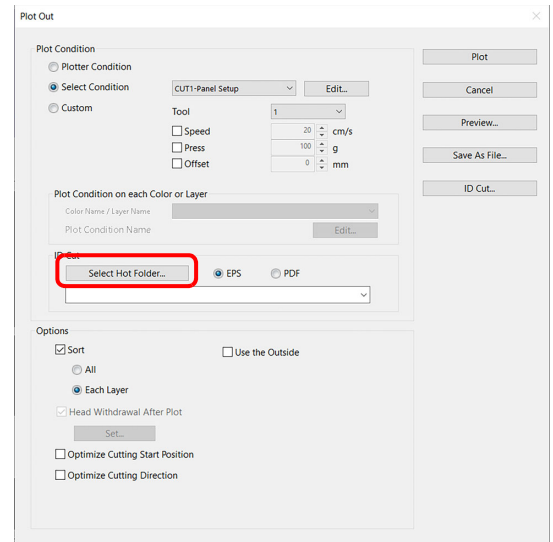


7

Click [Select Hot Folder...].

- Select a hot folder of RasterLink.
 - When using CJV or UCJV, select the hot folder of the model used.
 - When using the CG-FXII Plus, CG-AR, CFL-605RT, CF22-1225, or CFX, select the hot folder of the printer to be used.

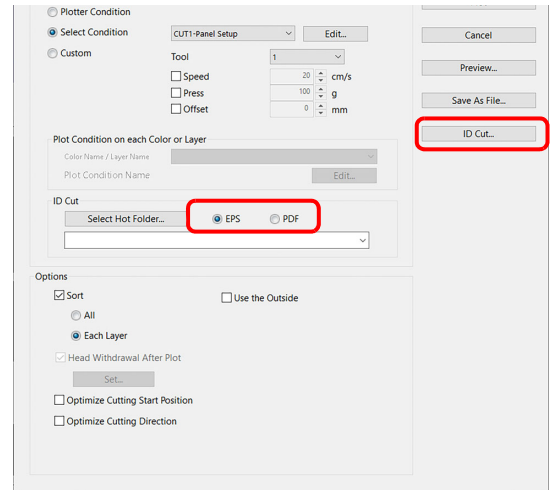
Important! • If there is no hot folder, create it on RasterLink. The folder created from the [Create a new folder] button on the folder reference screen does not work as hot folder.



8

Select [EPS] or [PDF] and click [ID Cut].

- The data is sent to the hot folder of RasterLink.
- If you select [EPS], set each item on the option screen and click [OK].
- If you select [PDF], click [OK] without changing the settings on the option screen.



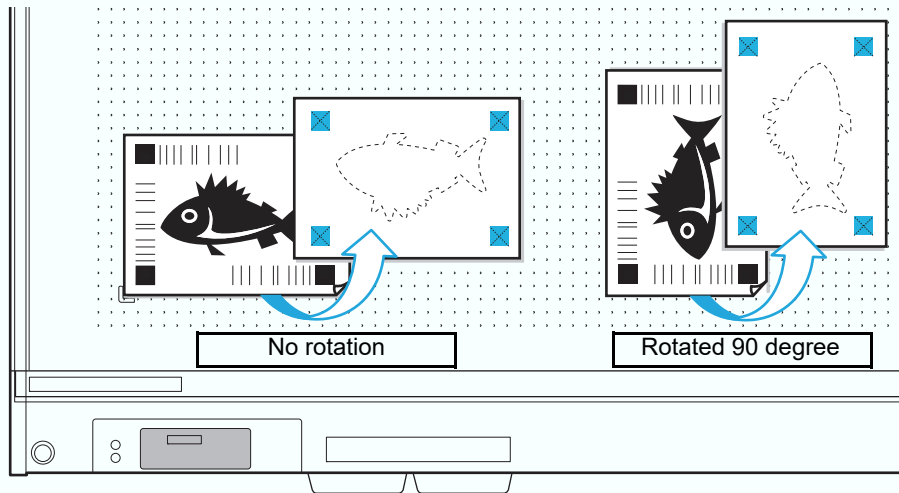
9

Print output with RasterLink, and then read the register mark with plotter.

- For the detailed ID cutting procedure, please refer to the "ID Cut Operation Guide".

Important!

- ID cut can be done even if media is set in any direction of 0 degree, 90 degree, 180 degree, 270 degree. However, if you want to automatically cut different types of register marks continuously, set the media in the 0 degree or 180 degree direction. In the case of CF22-1225 when performing back-side cut (P.3-65 "Cutting from the reverse side") after cutting the surface, be sure to turn the panel upside down (from bottom to top).



Setting Head Position after Plotting

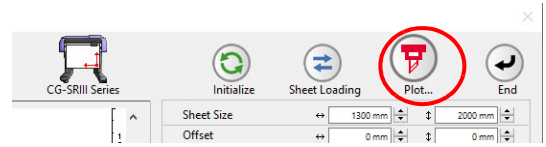
Important! • When using “Trotec Speedy series” or “Gravotech LS Series” or “DCF-605PU (Digital coating machine)”, this function cannot be used.

You can set the head position after plotting.

1 Click [Plot] button in the FineCut menu.

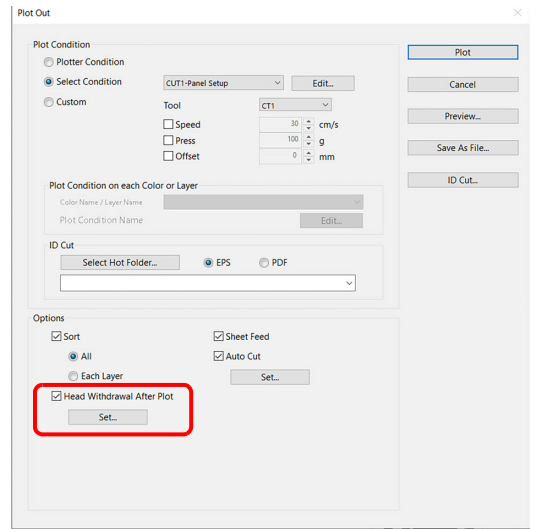


2 Click  (Plot button).



3 Check [Head Withdrawal After Plot].

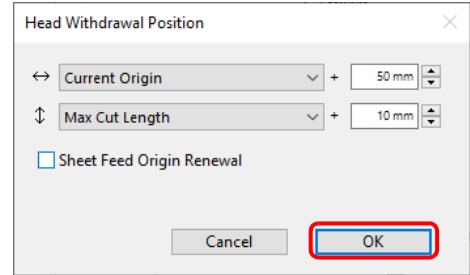
- To change the head withdrawal position or to set the origin to the withdrawal position, click [Set] and go to the next step.



4

Change the setting on Head Withdrawal Position screen.

- After setting, click [OK].



| Item | Description |
|---------------------------|--|
| ↔ | Set the head withdrawal position for the horizontal direction from the reference position (Select [Current Origin] or [Max Cut Width]). |
| ↕ | Set the head withdrawal position for the length direction from the reference position (Select [Current Origin] or [Max Cut Length]). |
| Sheet Feed Origin Renewal | Set the head withdrawal position as the origin position. (Effective only for the MGL-IIc commands on a plotter other than flatbed plotters ^{*1} .) Check this to prevent from cutting on the same position with the previous cut when plotting continuously with the same sheet. |

*1. CF, CF2, DC, CF3, CFX series, CF22-1225, CFL-605RT

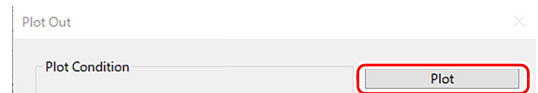
Important!

- In the CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, the Head Withdrawal Position is always the origin.
- When using [No. COPIES] or [DIVISION CUT] of the plotter, uncheck the [Sheet Feed Origin Renewal].
If checked, [No. COPIES] or [DIVISION CUT] will not perform normally.
- When using [X Direction Division Cut] with the CG-AR series, set the head withdrawal position in [Set...] for [X Direction Division Cut]. The value set here will not be used. ([Head Withdrawal After Plot] will be grayed out when [X Direction Division Cut] is enabled.)

5

Click [Plot].

- Plotting starts.
- The plotter head moves to the specified position after plotting.



Checking the Cutting Process by Preview

Important!

- When using "Trotec Speedy series", this function cannot be used.
- All data is previewed when using X direction division cutting with the CG-AR series.

Before cutting objects, you can check the plotting process with your settings by the preview.

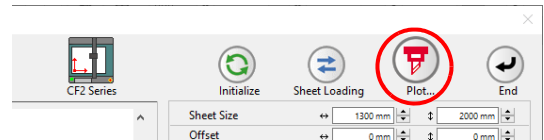
The DCF-605PU (digital coating machine) allows the hatchings for coating to be previewed and checked before applying the top coat.

The following steps describe the preview process for cutting.


1 Click [Plot] button in the FineCut menu.

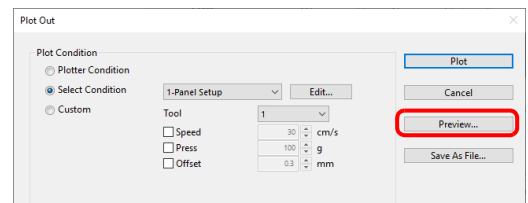


2 Click  (Plot button).

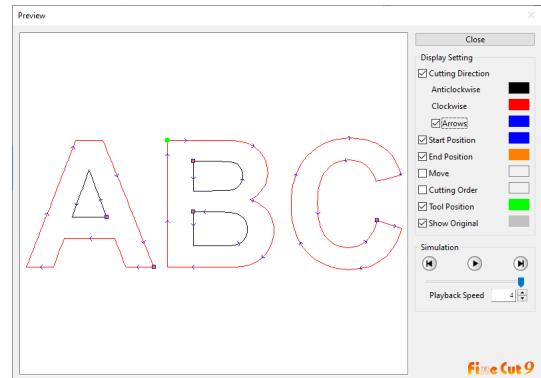


3 Set the plot condition, and click [Preview].

-  P.7-46 "[Plot Out] Screen"





4 Check the cutting line on the preview.











- To change the color of [Display Setting], click the color on the right of each setting.
- When copy or cutting with mark separation is set, the preview displays the object without copy or cutting with mark separation.

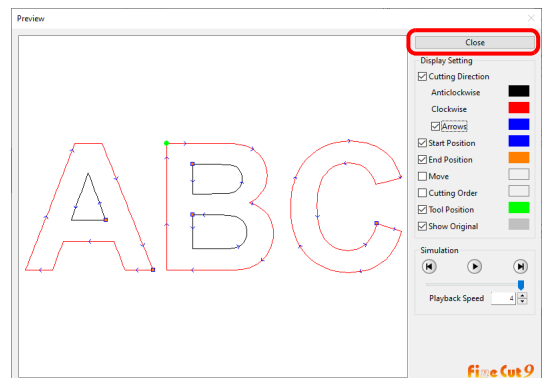
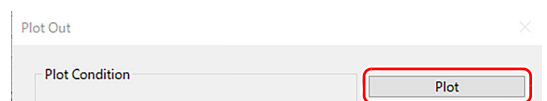
| Item | Description |
|--------------------------|---|
| Cutting Direction | Shows black line for cutting in anticlockwise, and red line for cutting in clockwise. Checking [Arrows], cutting direction shows with arrows. • For an open path, both directions display in black. |
| Start Position | Shows the starting point of cutting in blue. |
| End Position | Shows the ending point of cutting in orange. |
| Move | Shows the moving line raising the tool in yellow. |
| Cutting Order | Shows the numbers of cutting order. |
| Tool Position | Shows the tool (head) position in green. Displaying simulation, you can check the moving of the tool. |
| Show Original | Shows the Illustrator object that was read by FineCut and processed on Plot screen in the state before cutting. |

5**Click  in [Simulation] and check the moves of cutting.**

- To return to the state before cutting, click . To go to the state after cutting, click .
- The slide bar shows the simulation from any position you like.
- To set the speed of the simulation, set [Playback Speed].

6**If needed, go back to Step 3 and adjust the plot condition.**

- For the CF, CF2, DC, CF3, CFX series, CFL-605RT, and CF22-1225, you can check the cut start position on the preview. To adjust it, go to [Specify Cutting Start Position] ( P.6-4) or [Optimize Cutting Start Position] of Plot Out screen. ( P.7-46)
You can also check the separation position of line separation on the preview.
- For the CF3 (M-head) / CFX series (R10-head), you can check the following settings on the preview.
 - Cutting start position:
Adjust on [Specify Cutting Start Position] ( P.6-4), [Optimize Cutting Start Position] or [Adjust start / end] of Plot Out screen. ( P.7-46)
 - Offset direction:
Adjust on [Options] of Plot Out screen. ( P.7-46)
 - Position of cutting line, Cutting direction:
Adjust on [End Mill Diameter] of Output Condition Setup screen. ( P.7-11, P.7-19)
- For the CFX series, you can check the following settings on the preview.
 - V Cut Path:
You can check the path specified using V-cut. The arrow indicates the cutting direction.
 - Single (Left), Single (Right), Double/Triple:
Adjustments can be made through [V Cut Type] ( P.5-41) and the [Specify Cutting Direction] tool ( P.6-6) on the [Output Condition Setup] screen.
 - Flute Direction:
When using the function for adjusting the pressure using the cardboard flute direction (CFX series) (P.6-14), you can check the part recognized as the flute direction.

7**Check the preview again, and click [Close].****8****Click [Plot] to start cutting.**

Creasing & Cutting (CG-AR series)

This section describes how to crease and cut using the CG-AR series.

1

Attach the creasing tool to the CG-AR series main unit.

2

Create crease data and cut data for each color or layer.

- P.5-8 "Cutting an Object on Each Color"
- P.5-10 "Cutting an Object on Each Layer"

3

Click [Plot] button in the FineCut menu.



4

Set the output order/tool or output conditions on each color/layer.

- P.5-12 "Setting the Output Order/Tool on Each Color/Layer"
- P.5-14 "Setting Output Condition on Each Color/Layer"

5

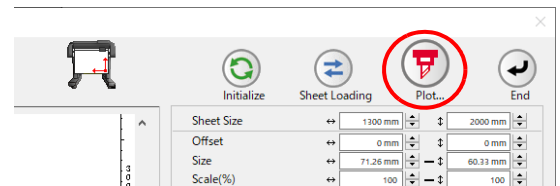
Drag and drop the crease data color/layer to the bottom of the color/layer list.

Important!

- Data will be output in order from the bottom to the top of the color/layer list.

6

Click  (Plot button).

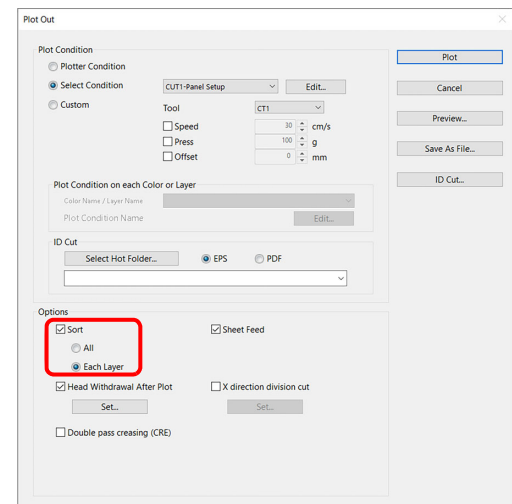


7

Check [Sort], then select [Each Layer]/[Each Color].

Important!

- Selecting [Each Layer]/[Each Color] sorts the data by cut/crease data, enabling work to be carried out with a single tool change.
- Selecting [All] for [Sort] mixes crease data and cut data, requiring the tool to be replaced numerous times on the main unit.



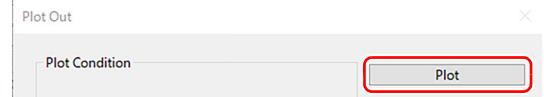
5

Advanced operations-from Plot Screen

8

Click [Plot].

- Creasing starts.
- The "Replace with CUT" message appears on the main unit display once the crease data has been output.



9

Replace the tool on the CG-AR series main unit with a cutter, then press the [REMOTE] key.

- Cutting starts.
-

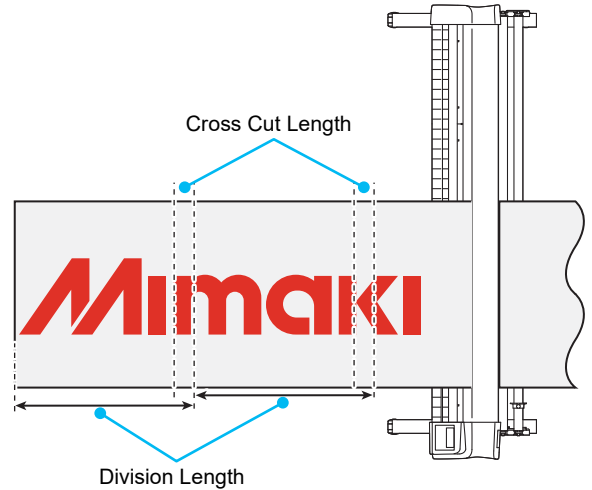
X-Direction Division Cutting (CG-AR series)

This function is available only when using the CG-AR series.

Important!

- This function is not available when using ID cutting, register marks, or tiling.
- The head withdrawal function is not available when using this function.

Setting division cutting in the feed (X) direction allows lengthwise data to be division cut, minimizing cutting offset due to sheet meandering.



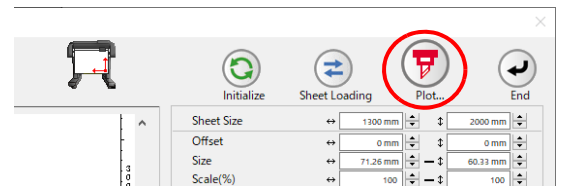
1

Click [Plot] button in the FineCut menu.



2

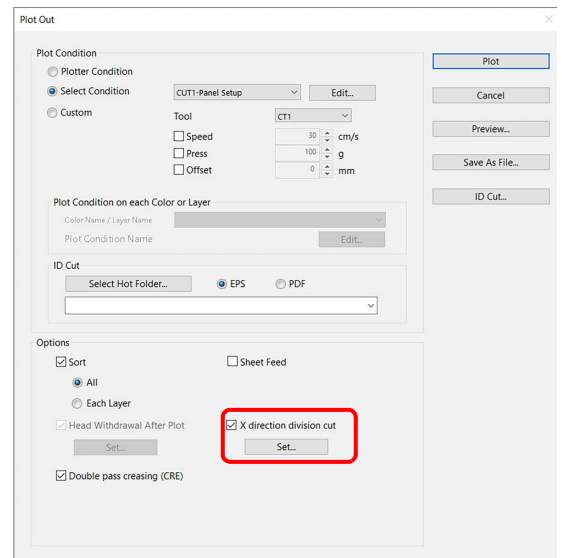
Click  (Plot button).



3

Check [X Direction Division Cut].

- To change the X direction division cutting settings, click [Set...] and go to the next step.



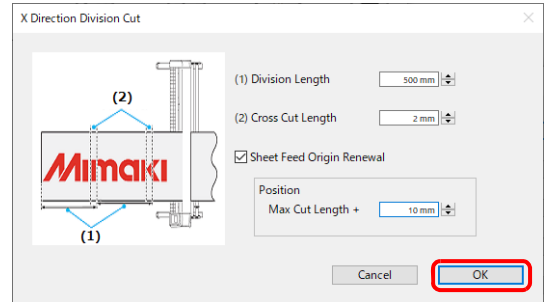
5

Advanced operations-from Plot Screen

4

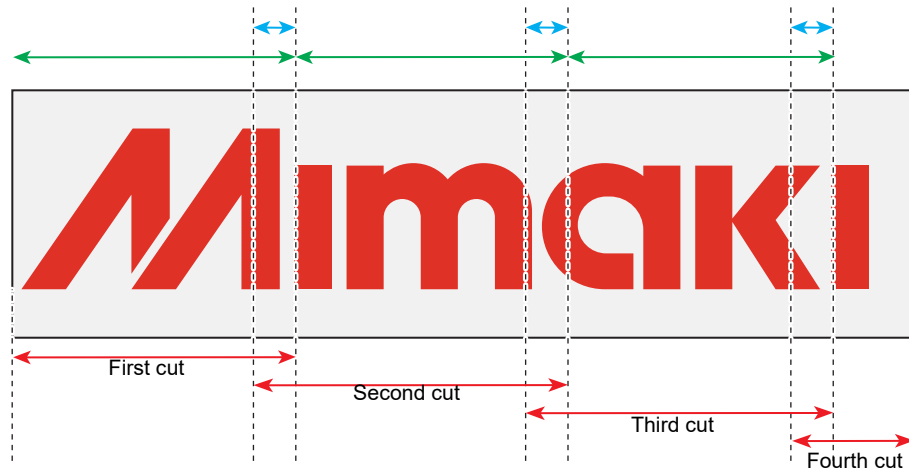
Change the settings on the [X Direction Division Cut] screen, then click [OK].

- The design will be divided as shown in the following figure and cut in sequence from the first division. The sheet will be fed for each division area.



| Item | Description | Range | Default |
|---------------------------|---|-----------------------------|---------|
| Division Length (mm) | The division length in the X direction. | 100 to 5000 (1 mm pitch) | 500 |
| Cross Cut Length (mm) | The length of the overlap cut to eliminates parts to leave. | 0 to 50 (1 mm pitch) | 10 |
| Sheet Feed Origin Renewal | Checking this updates the origin after X direction division cutting is complete. | ON/OFF | ON |
| Position (mm) | Origin update position Must not be less than the X direction maximum cut length. | 0 to 51000 (1 mm pitch) | 10 |

- Cross Cut Length
- Division Length
- Cut length



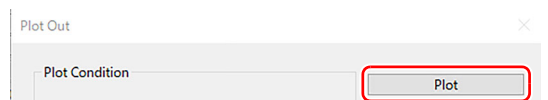
The operation will be as follows depending on the options set on the [Plot Out] screen:

- When [Sort] is checked:
Data is sorted by design prior to division.
- When [Sheet Feed] is checked:
The first cut is made after the entire design has been fed. The sheet is not fed for each division area.
- When [Head Withdrawal After Plot] is checked:
The [Head Withdrawal After Plot] option is disabled, and the head is withdrawn by the value set for [Sheet Feed Origin Renewal] on the [X Direction Division Cut] screen.

5

Click [Plot].

- Plotting starts.
- The plotter head moves to the specified position after plotting.



Double Pass Creasing (CG-AR series)

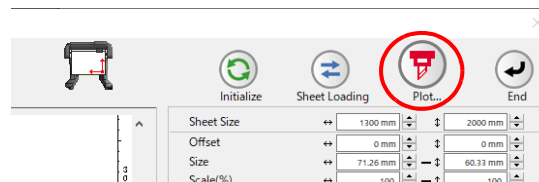
This function is available only when using the CG-AR series.

Creasing tool (CRE) data is output twice. This is used when a crease is not formed with a single output.

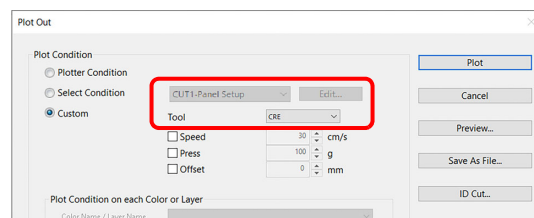
1 Click [Plot] button in the FineCut menu.



2 Click  (Plot button).

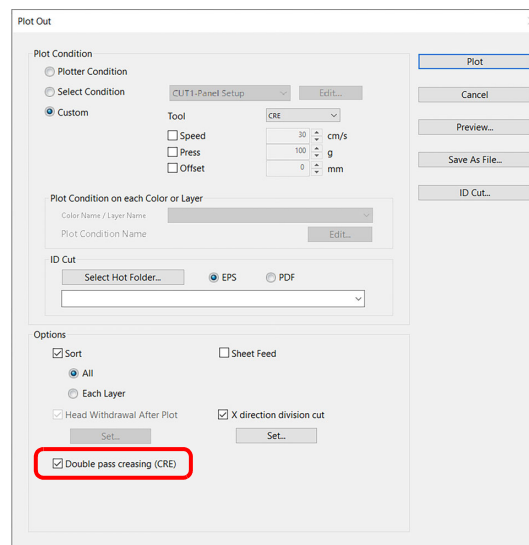


3 Select the creasing tool.



4 [Check [Double Pass Creasing (CRE)].

- Creasing is performed twice for each layer (color).



- If plot conditions are set for individual layers (colors), double pass creasing is used only for data for those layers (colors) for which plot conditions using the CRE tool are selected.
- If tools are set for individual layers (colors), double pass creasing is used only for data for those layers (colors) for which the CRE tool is selected.

| Color | Layer | Plot Condition |
|-------|---------|------------------|
| Green | Layer 3 | CUT2-Panel Setup |
| Red | Layer 2 | CUT1-Panel Setup |
| Blue | Layer 1 | CRE-Panel Setup |

| Color | Layer | Tool |
|-------|---------|------|
| Green | Layer 3 | CT2 |
| Red | Layer 2 | CT1 |
| Blue | Layer 1 | CRE |

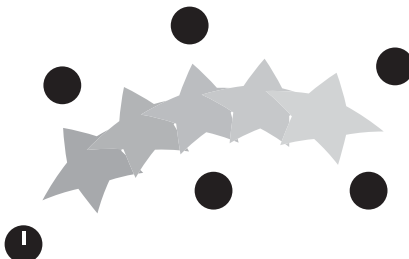
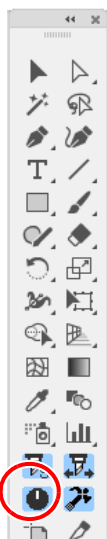
Placing Register Marks Freely and Cutting (CFX series)

This function is only available when using the CFX Series.

The free register mark tool allows you to place any number of free register marks at any position. Placing free register marks in appropriate positions is an effective way to improve the alignment accuracy when cutting.

Important!

- The camera option of the CFX series is required to be enabled to use free register marks.



For information on how to create free tonboards, refer to [P.3-22 "CFX series \(free register marks\)"](#)
For information on how to create free tonboards, refer to [P.3-74 "CFX series \(free register marks\)"](#)

Cutting Using Other Non-Mimaki Register Marks (CFX series)

It is possible to align and cut using register marks created with non-Mimaki software printed materials with Illustrator trim marks added. Rectangles can be placed around the data for use instead of register marks.

Important!

- The camera option of the CFX series is required to be enabled to use teaching.

An example is described here in which Illustrator trim marks are used as register marks for cutting.

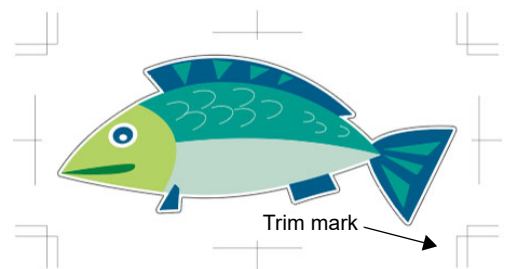
1

Use FineCut functions such as Frame Extraction to create cutting data around the print data.



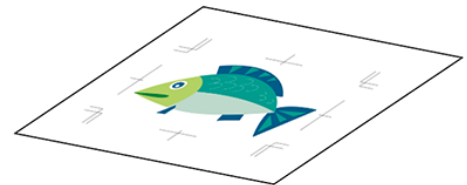
2

Create a new layer, then create trim marks within this layer.



3

Print the print data and trim marks.



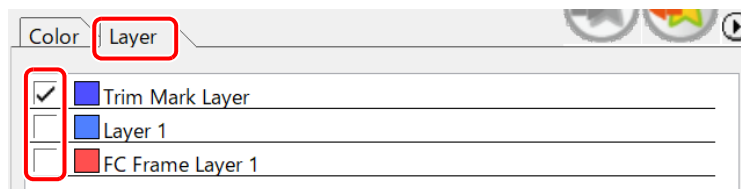
4

Click the [Plot] button on the FineCut menu.



5

Click the [Layer] tab, then uncheck all of the layers except the layer containing trim marks.



Important!

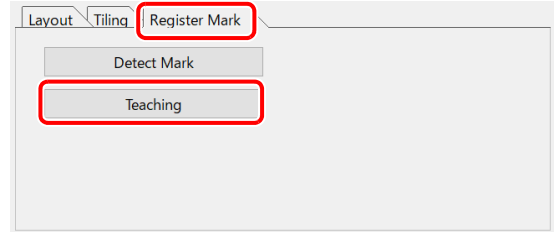
- Clicking the [Teaching] button in the next step with layers other than the layer containing the trim marks also checked may cause misalignment.



- The [Color] tab can also be used to color code data instead of layers.

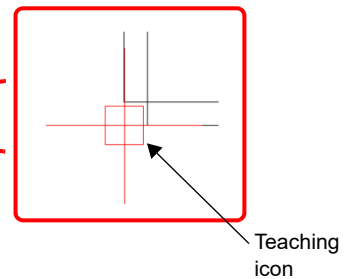
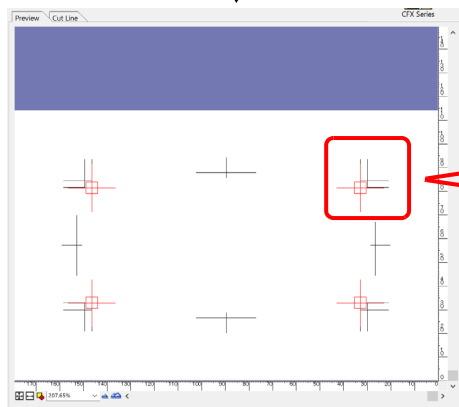
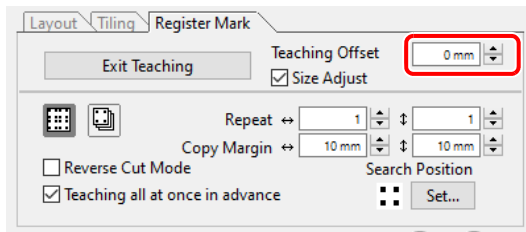
6

Click the [Register Mark] tab, then click [Teaching].



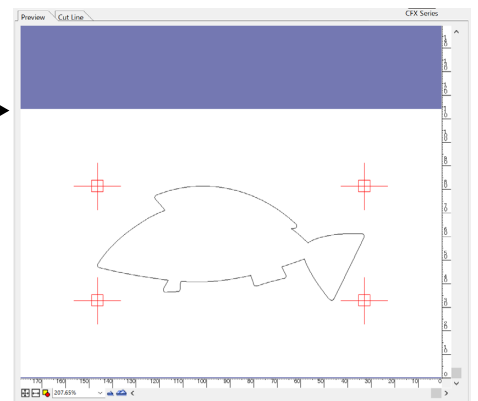
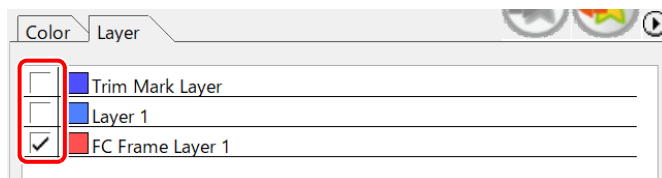
7

Enter the [Teaching Offset] value to align the red teaching icon shown in the preview with the trim mark intersections.



8

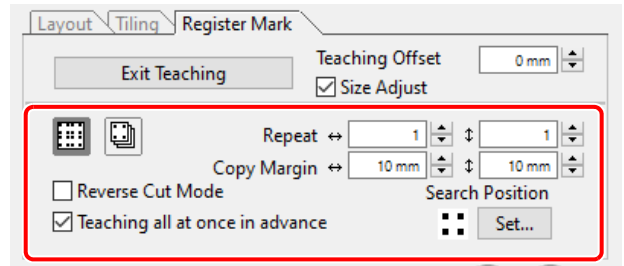
Select the checkbox for the cutting data layer, and uncheck the trim mark layer.



9

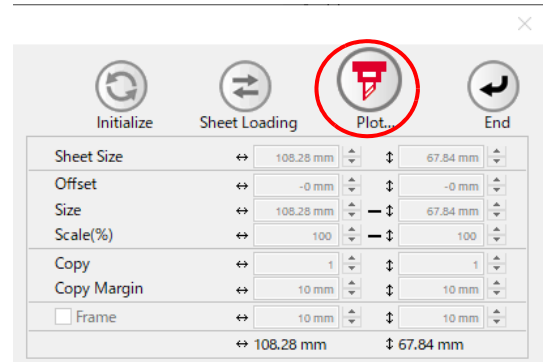
Set the other register marks in the same way.

- For details of the setting items, refer to P.3-77



10

Click (plot button).

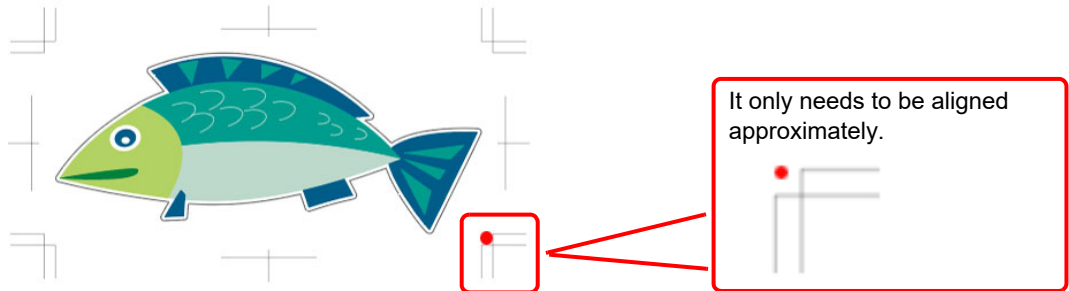


11

Load the work printed in Step 3 on to the CFX main unit, then select [Mark Origin Detection] on Main unit panel.

●[Mark Origin Detection]

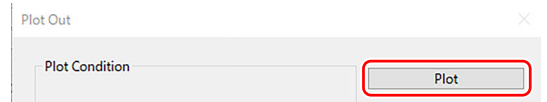
- Press on the local mode screen.
- Select [Mark Origin Detection], then press the [ENTER] key.
- Press to move the light pointer to the lower right register mark.



- Once the light pointer is aligned, press the [ENTER] key.
 - The [Register mark shape specification] window appears.
- Select [Teaching] in , then press the [ENTER] key.

12

Click [Plot].



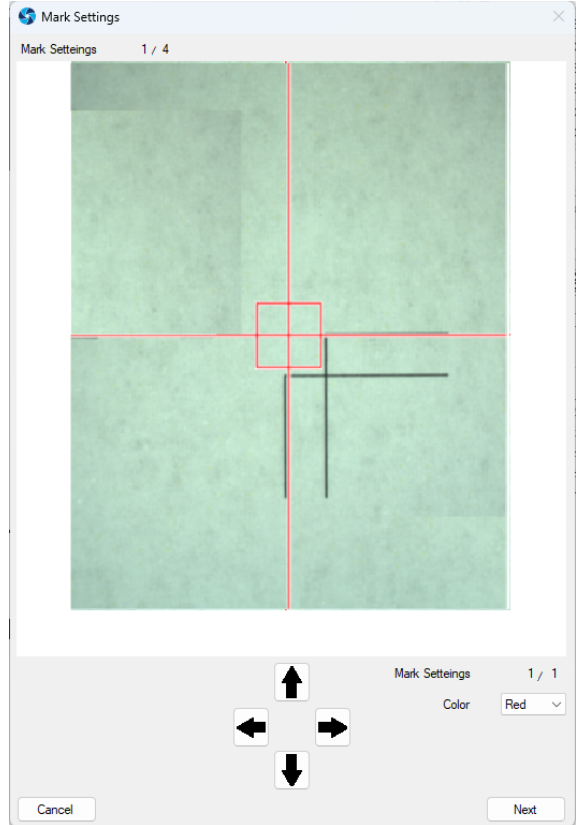
- The trim marks on the plotter are displayed on the OBSCURAS screen.

13

Move the mouse cursor to the position specified in Step 7, then click.

Important!

- If the click position is not accurate, the accuracy of the cut may be affected.



14

Repeat Step 13 for the number of times specified in [Repeat] in Step 9 to cut the printed positions.



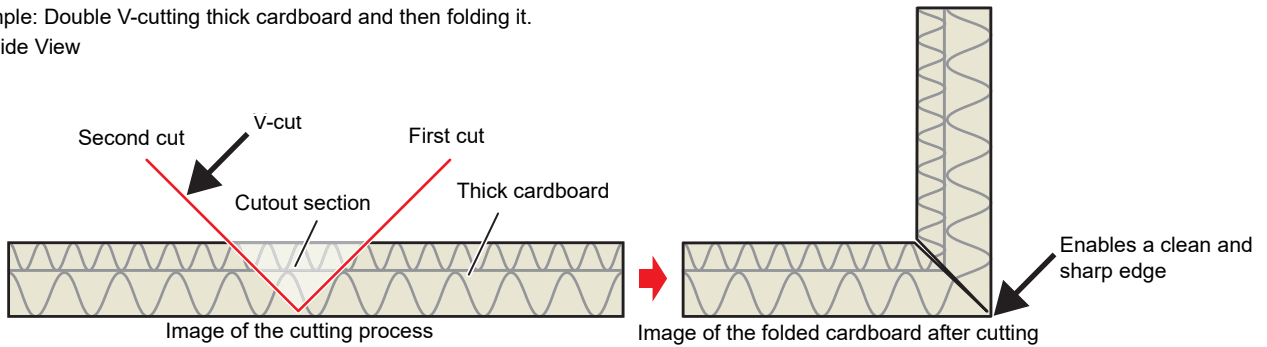
V-cut (CFX series)

This function is only available when using the CFX series.

Using the V-cut tool to fold media such as thick cardboard enables corners with clean and sharp edges.

Example: Double V-cutting thick cardboard and then folding it.

Side View



You will need to set the following conditions to perform V-cutting.

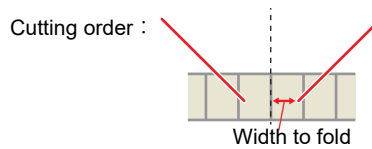
● V-cutting methods

Set the number of cuts and direction for the V-cut tool. There are three types of V-cutting methods as follows. Please select a method that is appropriate for your application.

| V Cut Type | Image of the V-cut (Side view) |
|----------------|--------------------------------|
| Single (Right) | |
| Double | Cutting order: 2 1 |
| Triple | Cutting order: 3 1 2 |



- When V Cut Width to Fold is set, it may be difficult to remove the cutout section when performing a double cut as shown below. Performing a triple cut will make it easier to remove this section.

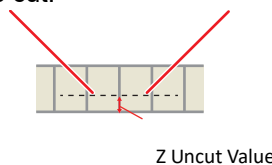


● V Cut Z Uncut Value (mm)

Specify the uncut amount of work as distance from the bottom of the work.

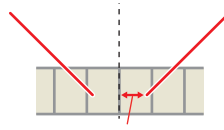
Set the work to the fold part.

Set "0 or less" for the part where the work is cut.



● V Cut Width to Fold (mm) (any)

Specify the width of bottom surface required when V-cut and folded.



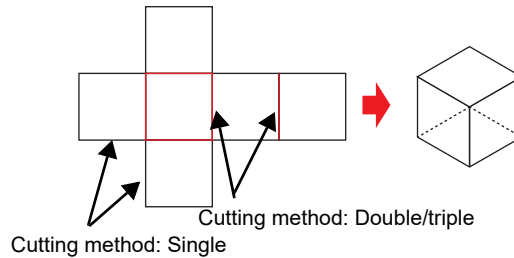
Width to fold

If the V Cut Width to Fold checkbox in the Output Condition Setup is unchecked, the appropriate fold width is calculated and cut based on the Z Uncut Value and the mounting angle of the V-cut tool. Fine-tuning the Z Uncut Value and the fold width changes the ease of folding and tearing. If fine tuning is required, such as for thick media, check the box and enter a value.

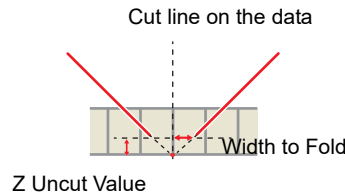
| Condition | |
|-------------------------------|--|
| Times : 1 | |
| Station: | B Station |
| Tool | V-Cut 45 deg |
| Work Thickness (mm) | 5 |
| Speed (cm/s) | <input checked="" type="checkbox"/> 30 |
| Z Position (mm) | 0 |
| Pressure Level | <input type="checkbox"/> 100 |
| V Cut Type | Double |
| a. V Cut Z Uncut Value (mm) | 1 |
| b. V Cut Width to Fold (mm) | <input type="checkbox"/> 1 |
| Arc / V Cut Theta Correct | <input type="checkbox"/> |
| R < 5 / V Cut | 0 |



- Using the V-cut tool to create boxes with materials such as thick cardboard enables sharp edges. In this case, the outer edge is cut out with the cut method set to single. Set the cut method to double or triple the inner part, and leave the bottom surface without cutting.



- When setting the double or triple above, [Z Remainder] and [Width to Fold] must be set so that the extension line of blade tip and the cut line in the data are aligned. Note that if these settings are different, the box shape will become corrupted.



Furthermore, the settings for "Z Uncut Value" and "fold width" vary depending on the mounting angle of the V-cut tool.

[Reference] Formula for calculating the fold width value when the Z Uncut Value is used as a standard

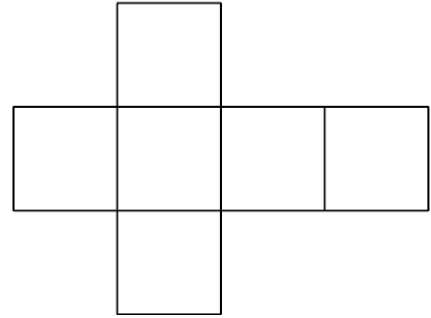
| V-cut tool angle | Width to Fold (mm) |
|------------------|-----------------------|
| 15° | Z Uncut Value x 0.268 |
| 22.5° | Z Uncut Value x 0.414 |
| 30° | Z Uncut Value x 0.577 |
| 45° | Z Uncut Value |

[Reference] Formula for calculating the Z Uncut Value when the fold width value is used as a standard

| V-cut tool angle | Z Uncut Value (mm) |
|------------------|-----------------------|
| 15° | Width to Fold / 0.268 |
| 22.5° | Width to Fold / 0.414 |
| 30° | Width to Fold / 0.577 |
| 45° | Width to Fold |

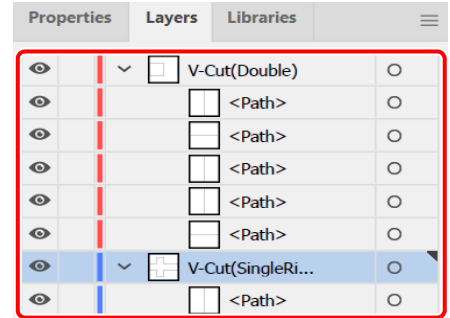
1

Import the flat layout drawing data (DXF file, etc.) into Illustrator.



2

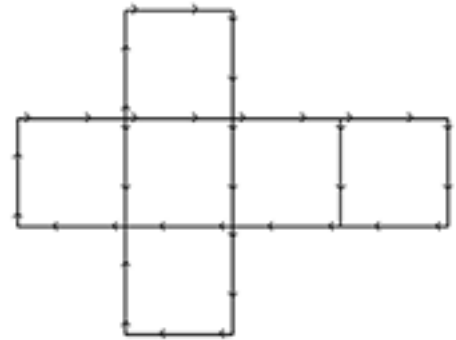
Make the path along which you wish to perform the V-cut a different layer or a different color.



3

Set the cutting direction. (Arbitrary)

- Be sure to set an appropriate cutting direction correctly when performing a Single (Right) V-cut. The cutting direction can be changed with the "Specify Cutting Direction" tool. P.6-6 "Specifying the Cut Direction"



4

Set the plot conditions for the V-cut tool.

- P.7-13 "When CFX series (except R10-Head) is selected"

5

Click [Plot] button in the FineCut menu.



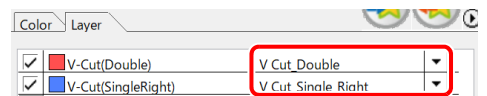
- If there are any objects on Illustrator that are not to be cut, select only the necessary objects and the register mark data, and then click the [Plot Selected Path] button.



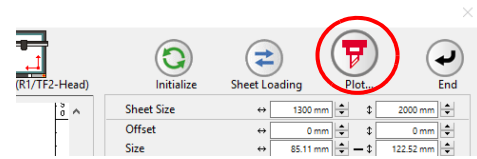
6

Use "Output Condition Setup" to set the conditions for the V-cut data for each color/layer.

- P.5-14 "Setting Output Condition on Each Color/Layer"

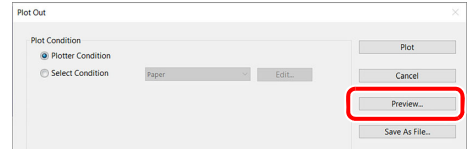


7 Click  (Plot button).




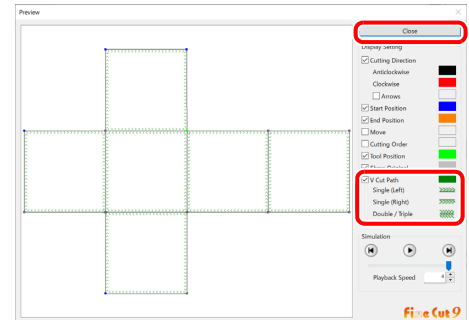
8 Click [Preview] on the [Plot Out] screen.

- The [Preview] screen is displayed.

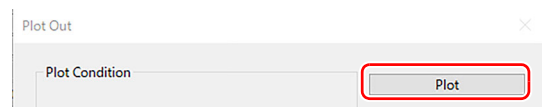


9 Confirm that the [Preview] screen shows the correct V-cut path and cutting direction, and then click [Close].

-  P.5-29 "Checking the Cutting Process by Preview"
- The [Preview] screen will then close.

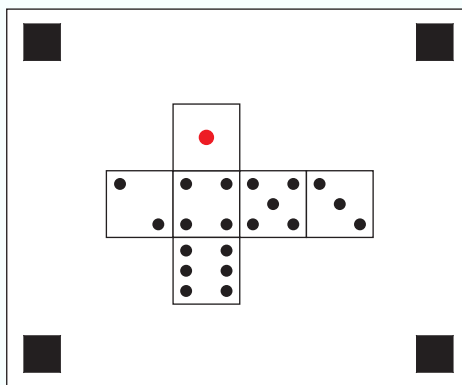


10 Click [Plot] on the [Plot Out] screen to start the V-cut process.

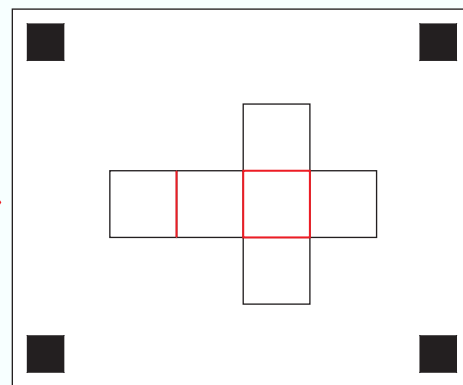


- Using "Reverse Cut Mode" when cutting, allows you to perform V-cuts that are aligned with the data printed on the front side.

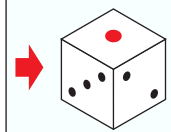
Example:



Printed media



The register marks are detected and the V-cut is performed on the reverse side.



This function is available when using a milling tool with the CF3 and CFX series.

If you are using the CF3 series, replace it with an M-head. If you are using the CFX series, mount the milling tool onto the D Station. For more details, refer to the Operation Manual of the main unit.

1

Set Z axis origin to a plotter.

- For more details, refer to the Operation Manual of the main unit.

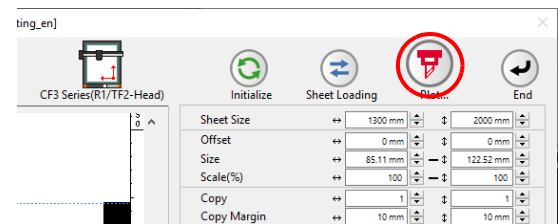
2

Click [Plot] button in the FineCut menu.



3

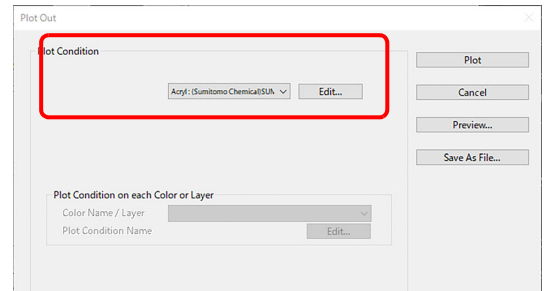
Click (Plot button).



4

Select the plot conditions.

- Select the plot condition set in FineCut.
- Click [Edit...] to add media or to set cutting condition by each media.
- In the cutting conditions, set appropriate conditions for using an end mill such as the work thickness and speed of rotation. (P.7-11, P.7-18)

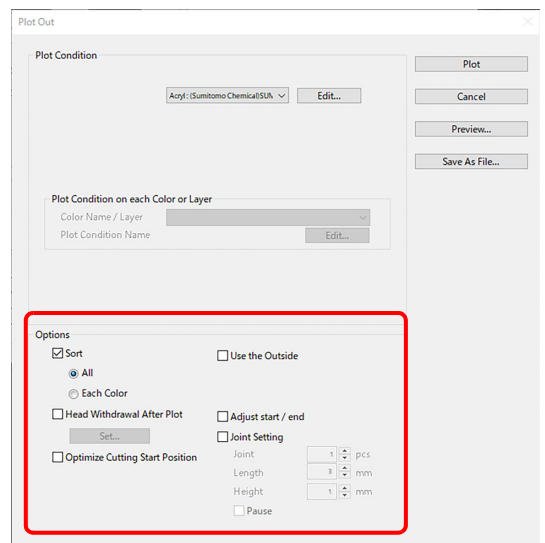






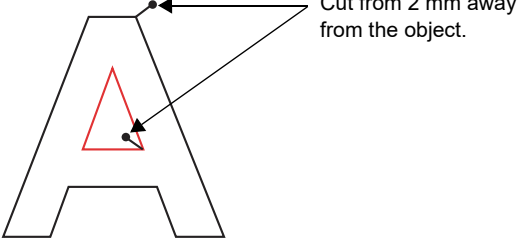
- This setting is not available if the plot conditions are set separately for each color/layer (P.5-14).

5

Set [Options].

- In addition to the cutting condition of the previous step, set options according to the media and the object shape to cut finely.

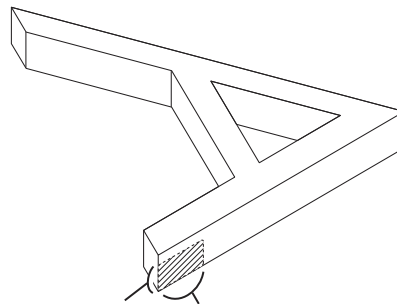


| Item | Description | | | | | | | | |
|--|---|--------------|---|---------------|--------------------------------|---------------|-----------------------------------|--------------|---|
| (For more information regarding items other than the following, refer to  P.7-50.) | | | | | | | | | |
| Optimize Cutting Start Position | <p>Optimizes the start position of cutting to finish finely. If unchecked, cutting starts from the position that the data started to draw or the position specified by the [Specify Cutting Start Position] tool ( P.6-4).</p> <ul style="list-style-type: none"> • After setting, be sure to check the start position of cutting on the preview. • With optimizing, the start position might be placed out of the object. If the cutting line goes over the next object, space among objects on Illustrator. | | | | | | | | |
| Use the Outside | <p>Cuts out inside of the object to use the outside. If checked, the part to leave is set and the offset direction is determined. Furthermore, cutting direction is optimized to finish cutting surface finely.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Use inside (Unchecked)</p> </div> <div style="text-align: center;">  <p>Use outside (Checked)</p> </div> </div> | | | | | | | | |
| Adjust start / end | <p>An object is cut from 2 mm away from the object. (If the outside is not used, use this function to cut start / end position finely.)</p> <div style="text-align: center;">  </div> | | | | | | | | |
| Joint Setting | <p>Leaves a part of the cutting line, and cuts it last. It prevents the work from misaligning and makes the cutting surface fine. Small or heavy media tends to misalign while cutting. To cut it finely, withdraw the head, fix the media with tape, and then cut the ending point.</p> <table border="1" data-bbox="427 1391 1484 1677"> <tbody> <tr> <td data-bbox="427 1391 550 1536">Joint</td> <td data-bbox="550 1391 1484 1536">Set the number of joint (places to leave). It places the parts to leave for joint on the cutting line evenly. As the places of the parts to leave varies from the joint length, check it on the preview.</td> </tr> <tr> <td data-bbox="427 1536 550 1581">Length</td> <td data-bbox="550 1536 1484 1581">Set the media length to leave.</td> </tr> <tr> <td data-bbox="427 1581 550 1626">Height</td> <td data-bbox="550 1581 1484 1626">Set the media thickness to leave.</td> </tr> <tr> <td data-bbox="427 1626 550 1677">Pause</td> <td data-bbox="550 1626 1484 1677">Leaves the ending point and withdraws the head temporarily.</td> </tr> </tbody> </table> | Joint | Set the number of joint (places to leave). It places the parts to leave for joint on the cutting line evenly. As the places of the parts to leave varies from the joint length, check it on the preview. | Length | Set the media length to leave. | Height | Set the media thickness to leave. | Pause | Leaves the ending point and withdraws the head temporarily. |
| Joint | Set the number of joint (places to leave). It places the parts to leave for joint on the cutting line evenly. As the places of the parts to leave varies from the joint length, check it on the preview. | | | | | | | | |
| Length | Set the media length to leave. | | | | | | | | |
| Height | Set the media thickness to leave. | | | | | | | | |
| Pause | Leaves the ending point and withdraws the head temporarily. | | | | | | | | |



Joint setting precautions

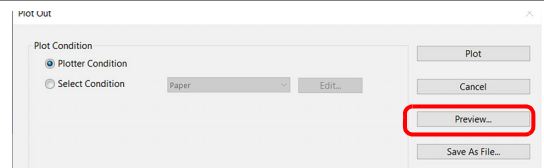
- After setting [Joint Setting], test the cutting.
- When multiple cutting and [CuttingDepth] are set on the [Output Condition Setup] screen (☞ P.7-5), if the cutting depth is deeper than the [Height] setting on this screen, Joint Setting will not be available.
- If the number of cuts is set to multiple on the [Output Condition Setup] screen, the jointed part is cut the number of times according to Joint Setting.
- If plural numbers are set on [Joint], you can cut a large shape, deflected media or the like without misaligning.
- With the deflection of media, some part of the media could be lifted. To cut such a media finely, put an extra height on [Height].
- The height is the thickness with the top of the felt as 0.
- If the cut position is set at or below the top of the felt, the actual amount remaining after cutting is the combined thickness of the joint height and the depth of cut below the top of the felt.



Joint Height Joint Length (The shadow area is the part to leave)

6

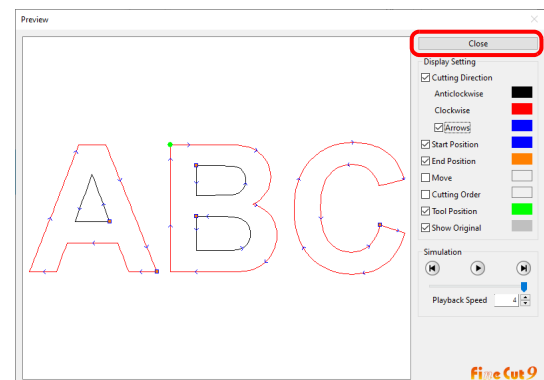
Click [Preview].



7

Check the cutting line. (☞ P.5-29)

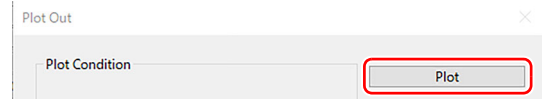
- After checking, click [Close].



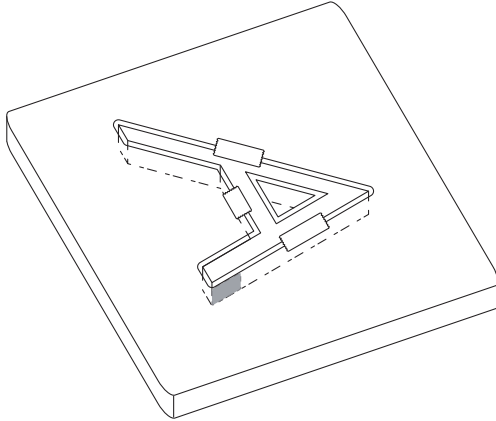
- The cutting line is offset by half of the [End Mill Diameter] that was set on the [Output Condition Setup] screen or set via [Edit...] in Step 4. Adjust the end mill diameter on the [Output Condition Setup] screen while checking the cut line on the preview. (☞ P.7-5)

8

Click [Plot] to start cutting.



- When [Pause] is selected for [Joint Setting] on the [Plot Out] screen, cutting stops, and the head is withdrawn. Secure the media in place with tape and press the [REMOTE] button on the plotter to cut the joints.



Accurate Cutting at Any Position on the Work (CFX series)

This function is available when using the CFX series.

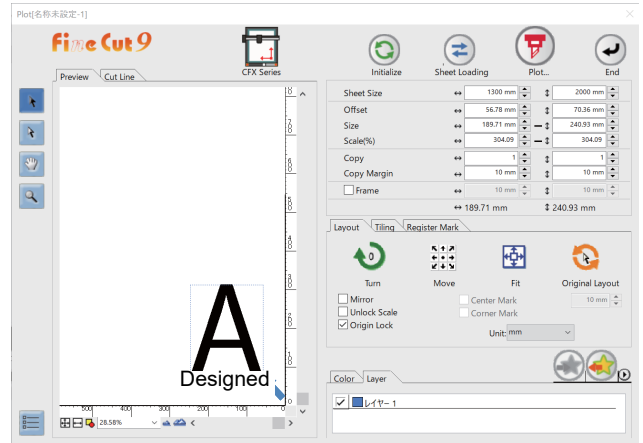
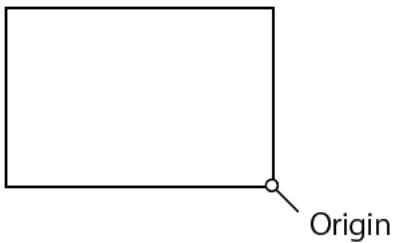
By using a camera to detect the edge of the placed work, it is possible to cut accurately at any position without having to worry about the work position or angle.

Important!

- The camera option of the CFX series is required to be enabled to use this function.

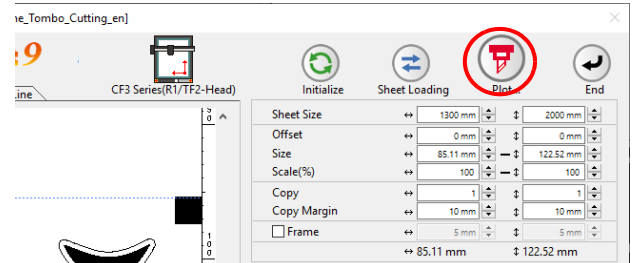
1

On the [Plot] screen, move the cut data to an arbitrary position where you wish to cut, with the lower right corner of the work being designated as the origin.



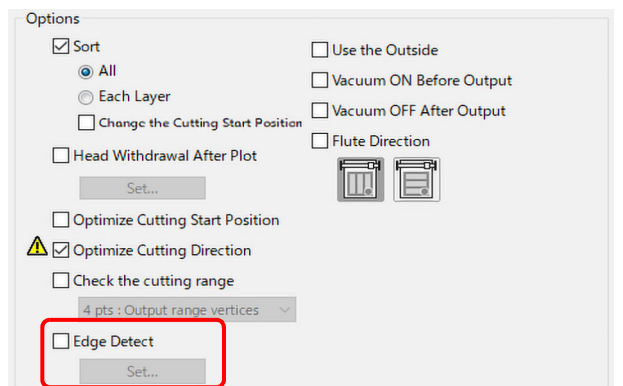
2

Click the [Plot] button.



3

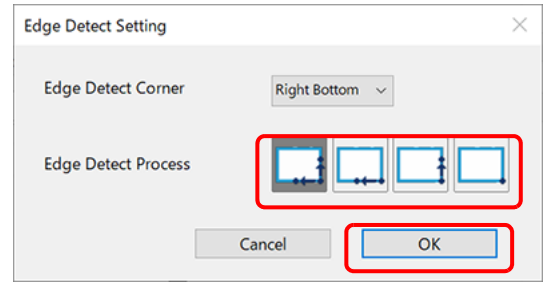
Check [Edge Detect] and then click the [Set...] button.







4

Select the [Edge Detect Process] icon and then click the [OK] button.

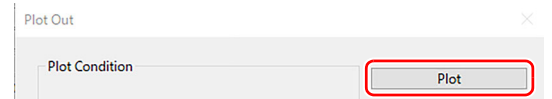
- Edge Detect Corner Fixed to [Right Bottom].
- Edge Detect Process



-  Corner/Left/Bottom
-  Corner/Bottom
-  Corner/Left
-  Corner only (no angle correction)

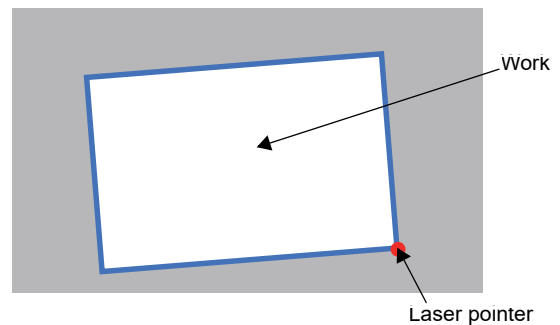
5

Click the [Plot] button.



6

When [Edge Detect] is displayed on the main unit panel, align the laser pointer with the lower right corner and then press the [Enter] key.



7

It accurately cuts by detecting the work position and angle.



Efficient Cutting Using the Toggle Cut Function (CFX series)

This function is available when an extension table is mounted on the CFX series.

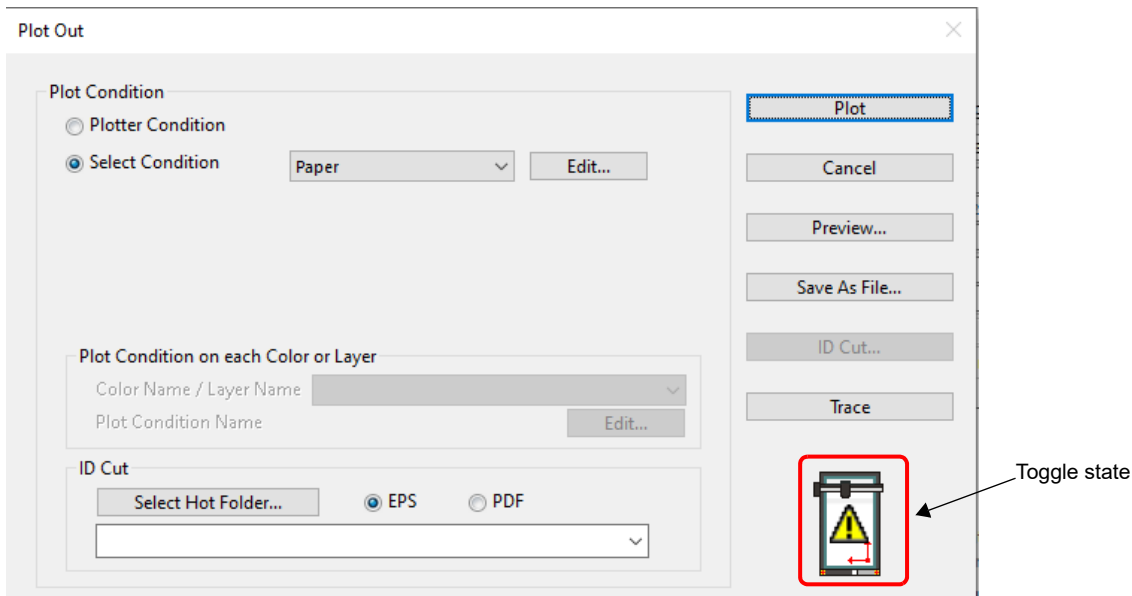
Up to two extension tables can be mounted on the CFX.

When an extension table is mounted, the cutting area is divided into two separate areas. While cutting is being performed in one area, the other area can be used for the preparation of the next cut. This allows more efficient cutting.

* Refer to the CFX main unit Operation Manual for more information on how to switch areas during toggle cut.

Separate cutting data can be transferred to each area.

The toggle state of the connected CFX is displayed as an icon on the [Plot Out] screen. This allows you to check which area to which you can transfer the data.



The displayed icon may be as follows.



Data can be transferred to the front area.



Data can be transferred to the rear area.



Toggle mode has been turned off.



CFX not connected.

No icon displayed

No extension table mounted.

CHAPTER 6

Advanced operations-others



This section describes other convenient usage.

| | |
|---|------|
| Editing the Line..... | 6-2 |
| Setting Cutting Start Position..... | 6-4 |
| Specifying the Cut Direction | 6-6 |
| Registering Favorite | 6-8 |
| Generating Cutting Conditions for Clean Cutting Edges (CFX Series (R10-head))..... | 6-12 |
| Adjusting the Pressure in the Flute Direction for Card- board (CFX Series)..... | 6-14 |
| Selecting the Cut Base Point Without Size Adjust (CFX Series)..... | 6-17 |

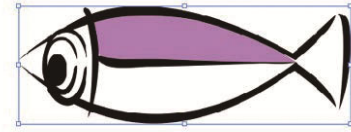
Editing the Line

The outline created by Outline Extraction (☞ P.4-10) can be modified or changed.

1

Open an image created by Outline Extraction on Illustrator.

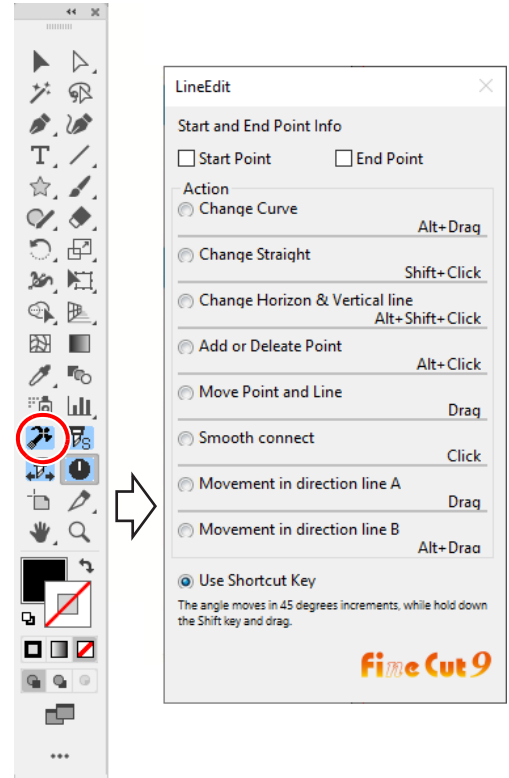
- If necessary, enlarge the line to be edited with the zoom tool of Illustrator.



2

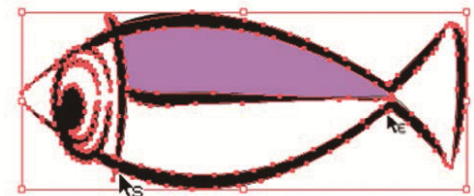
Click [LineEdit] button on Illustrator Toolbars.

- If the [LineEdit] button is not shown on the toolbar, refer to ☞ P.8-4 "[Specify Cutting Start Position], [Specify Cutting Direction], [LineEdit], and [Free Register Mark Tool] are not shown on the Illustrator toolbar".
- The line edit tool appears. (☞ P.7-65)



3

Specify the start point and the end point.



| | |
|-------------|---|
| Start Point | Move the cursor close to the anchor point to show "S". Click the anchor point to set the start point. |
| End Point | After setting the start point, move the cursor close to the anchor point to show "E". Click the anchor point to set the end point. |

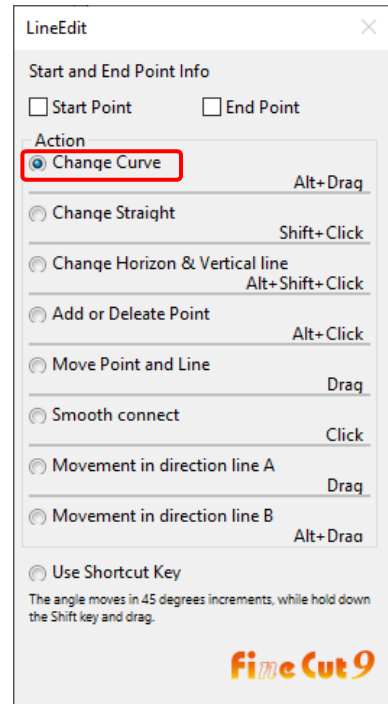
4

Select the operation.

- This is an example of [Change Curve].



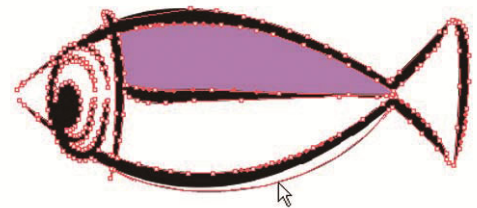
- Check [Use Shortcut Key] to edit with keys shown on the right of each operation. Use the [Alt] key for Windows or the [Option] key for Macintosh.



5

Drag the line to curve.

- The line is fixed when the mouse button is up.



Setting Cutting Start Position

Important!

- This function is effective for cutting with the CF series (CF, DC, CF2, CF3 (excluding M-head) / CFX (excluding R10-head) series, CF22-1225) or the CFL-605RT.

The start position of cutting an object can be specified.

By specifying the start position of cutting according to the object, the object can be cut finely.

1

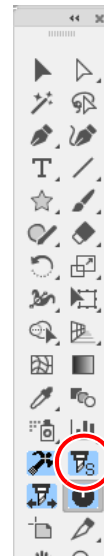
Convert a target object into a simple path.

- Convert into a simple path by using a function such as [Expand] or [Expand Appearance] of Illustrator.
- Perform [Create Outlines] if using characters.

2

Click [Specify Cutting Start Position] button on Illustrator Toolbars.

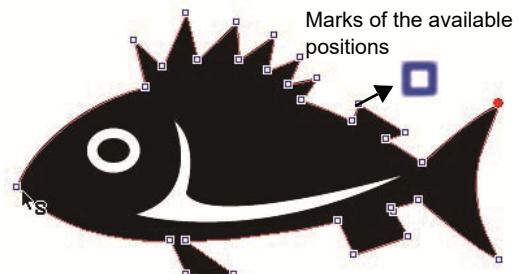
- If the [Specify Cutting Start Position] button is not shown on the toolbar, refer to P.8-4 "[Specify Cutting Start Position], [Specify Cutting Direction], [LineEdit], and [Free Register Mark Tool] are not shown on the Illustrator toolbar".



3

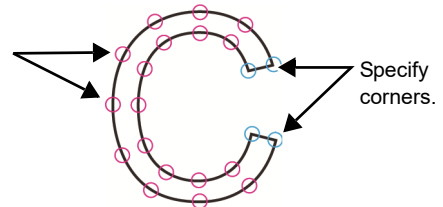
Specify the cutting start position.

- The current cutting start position is displayed in red. Click a target point from the available positions (marked in blue).
- The set position turns red.



- The set cutting start position is saved as a data of Illustrator.
- Specify a corner of an object as a cutting start position. If setting the cutting start position in the middle of the curve, the cutting line may not be finished well.

Do not specify curves.

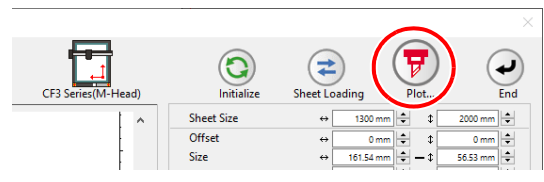


4

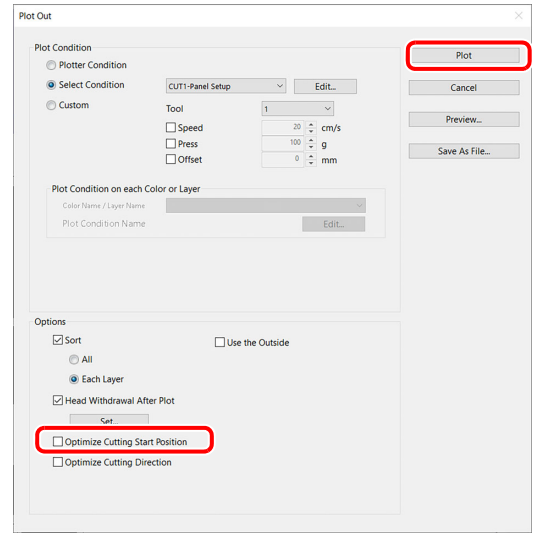
Click [Plot] button in the FineCut menu.



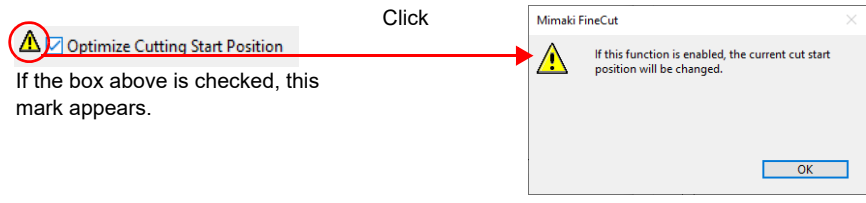
5 Click  (Plot button).



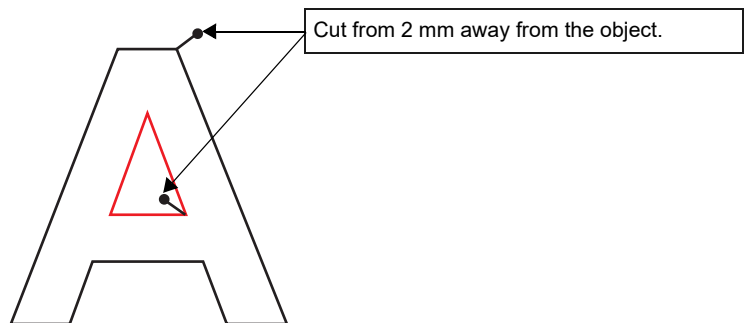
6 (For the CF, CF2, DC, CF3, CFX series, CFL-605RT, and CF22-1225) Uncheck [Optimize Cutting Start Position] and click [Plot] .



- If [Optimize Cutting Start Position] is checked, the cutting start position set before becomes invalid. (The following message appears when clicking “!”.)



- (For the CF3 (M-head) / CFX series (R10-head) only)
If [Adjust start / end] is checked on the screen above, the object is cut from 2 mm away from the object. (If the outside is not used, use this function to cut the start / end position finely.)



Specifying the Cut Direction

Important!

- This function is effective for cutting with the CF series (CF, DC, CF2, CF3 (excluding M-head) / CFX (excluding R10-head), CF22-1225) and the CFL-605RT.

You can specify the cut direction of the object.

Specifying the optimum cut direction according to the object shape enables you to perform better quality cutting.

1

Convert a target object into a simple path.

- Convert into a simple path by using a function such as [Expand] or [Expand Appearance] of Illustrator.
- Perform [Create Outlines] if using characters.

2

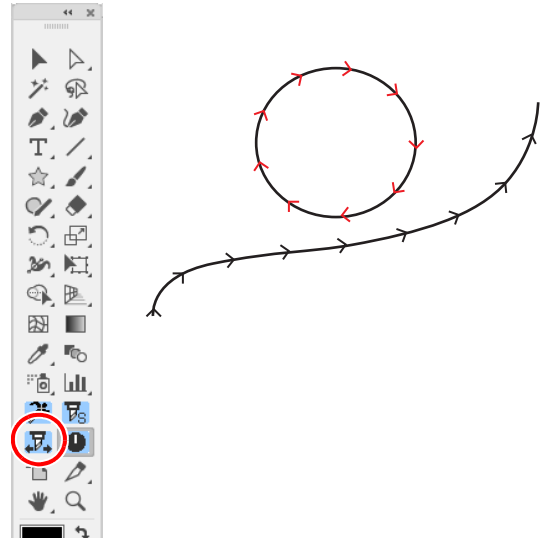
From the Illustrator Toolbars, click the [Specify Cutting Direction] button.

- If the [Specify Cutting Direction] button is not shown on the toolbar, refer to P.8-4 "[Specify Cutting Start Position], [Specify Cutting Direction], [LineEdit], and [Free Register Mark Tool] are not shown on the Illustrator toolbar".
- The paths available for specifying cutting direction in Illustrator are indicated by arrows showing the cut direction.

Red arrow: Closed pass
Cut in clockwise direction

Black arrow: Open pass

- The displayed color is the same color as "Preview" (P.5-29). The cut direction display color also changes if you change the cut preview color.



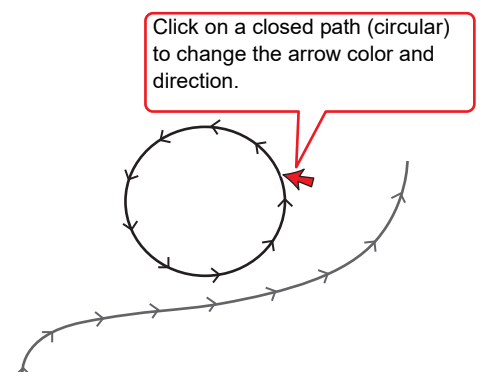
3

Click the path of cut direction you want to change.

- The cut direction and arrow color of the clicked path change.



- The cut direction changes each time you click on the path.
- Cut direction is stored as Illustrator data.
- Save the data after specifying the cut direction so that cutting can be performed in the same direction the next time you use the saved data

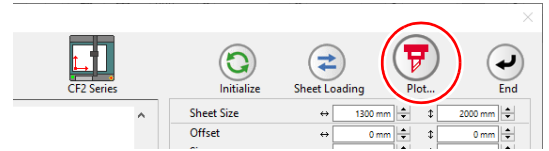


4

Click [Plot] button in the FineCut menu.

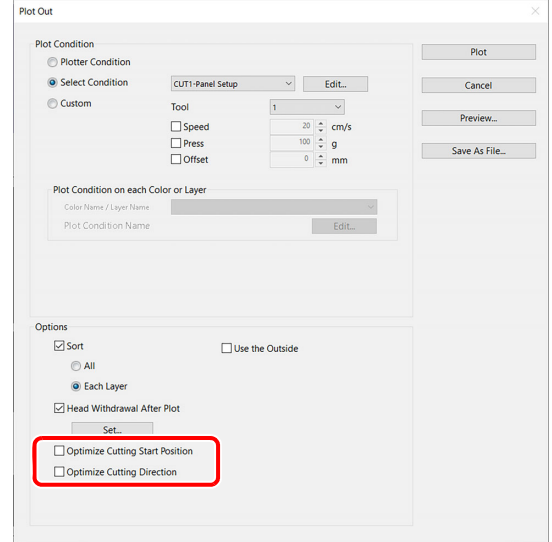


5 Click  (Plot button).



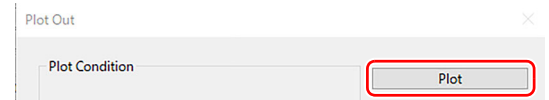
6 Turn both [Optimize Cutting Start Position] and [Optimize Cutting Direction] of the [Plot Out] screen to “OFF”.

- Turning [Optimize Cutting Start Position] to “ON” might result in not cutting in the specified cut direction if cutting an open path shape.
- Turning [Optimize Cutting Direction] to “ON” might result in not cutting in the specified cut direction if cutting a closed path shape.



7 Click [Plot].

- Start cutting in the specified cut direction.
- Click the [Preview...] button to display the screen. Check the cut direction



Registering Favorite

You can register “Favorite” by setting the output conditions on the color and layer tabs displayed on the plot screen.

You can set the three output conditions indicated in the table below and you can register the following four types of favorites.

- Specify The Tool On Each Color (set by using the color tab)
- Specify The Plot Condition On Each Color (set by using the color tab)
- Specify The Tool On Each Layer (set by using the layer tab)
- Specify The Plot Condition On Each Layer (set by using the layer tab)

Output conditions that can be set:

| | |
|-----------------------------------|--|
| Specify The Tool | You can specify the tool used. (Excluding the CFX series.) |
| Specify The Plot Condition | You can specify the set condition name by using the [Output Condition Setup] screen box. |
| The Cut Order | You can specify the cut order of the color or layer displayed by the Color tab/ Layer tab. |

Important!

- You can register a “Favorite” with the CF series (CF, DC, CF2, CF22-1225, CF3 (excluding the M-head), CFX) and the CFL-605RT.
- Contents are overwritten if you register a “Register As Favorite” for an already registered “Color/ Layer”.
- Contents set by “Favorite” are disabled if you select “PANEL” for the output conditions setting on a connected plotter.

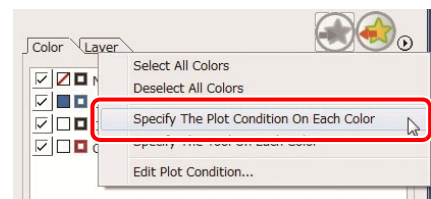
Registering output conditions for “Favorite”

Display the color tab or layer tab, then specify the output conditions in “Color” or “Layer”.

The following procedures indicate how to specify the output conditions by color when the color tab is displayed.

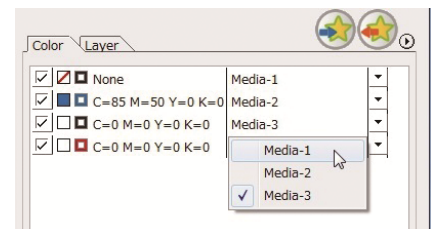
1 Display the plot screen.

2 Select color-specified output conditions, then click [Specify The Plot Condition On Each Color].

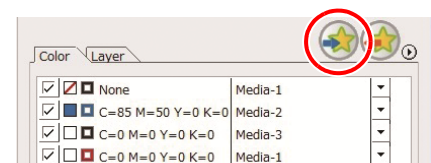


3 Specify the output conditions.

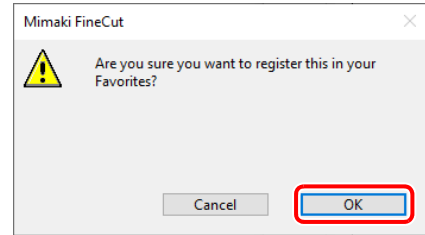
- Cutting is performed in order from the bottom of that displayed in the color tab. Move the color name by using the mouse to change the cut order.



4 Click  (Favorite registration button).



5 Click [OK].

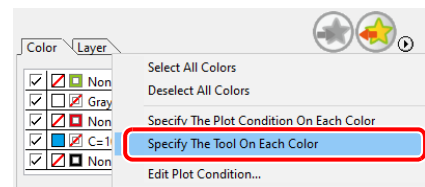


Registering a tool as a “Favorite”

Display color tab or layer tab, and specify the tool for cutting in “Color” or “Layer”.
The following procedures indicate how to specify tools by color when the A is displayed.

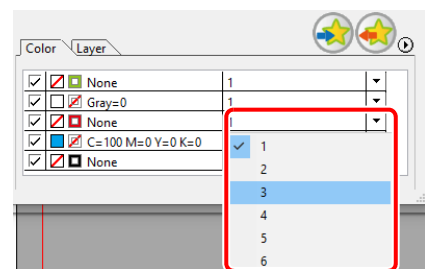
1 Display the plot screen.


2 Select color-specified output conditions, then click [Specify The Tool On Each Color].

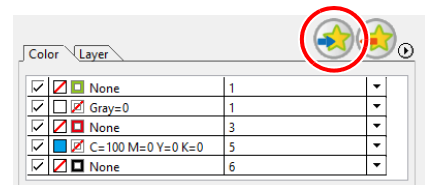


3 Specify the tool.

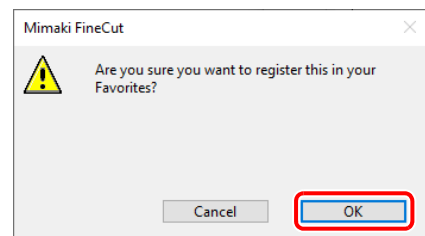
- Cutting is performed in order from the bottom of that displayed in the color tab. Move the color name by using the mouse to change the cut order.



4 Click  (Favorite registration button).



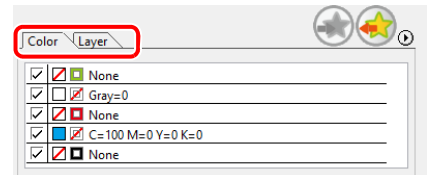
5 Click [OK].




Changing registered contents of a “Favorite”

1

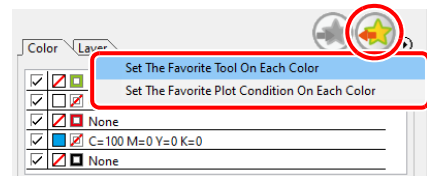
Click color or layer tab



2

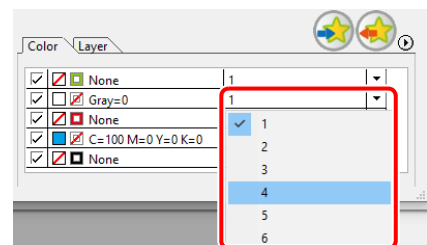
Click  (Favorite apply button), then click [Set the favorite tool(plot condition) on each color(layer)].

- The registered contents of “Favorite” are displayed.



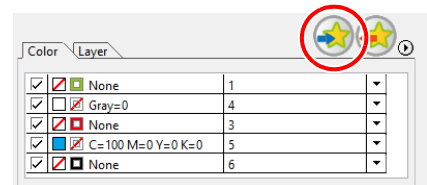
3

Change the contents of “Favorite”.



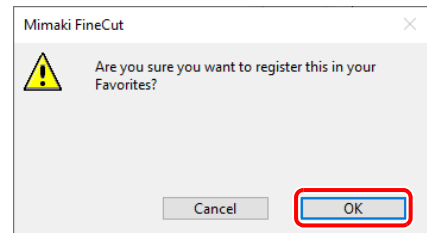
4

Click  (Favorite registration button).



5

Click [OK].

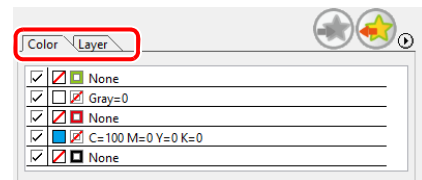



Applying “Favorite” when cutting

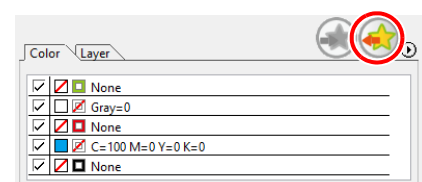
Use the [Plotter] screen to select the registered favorite to apply.

1 Display the plot screen.

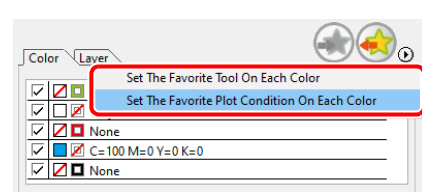
2 Click color or layer tab.



3 Click  (Favorite apply button) .



4 Select “Set The Favorite Tool On Each Color (Layer)” or “Set The Favorite Plot Condition On Each Color (Layer)”.



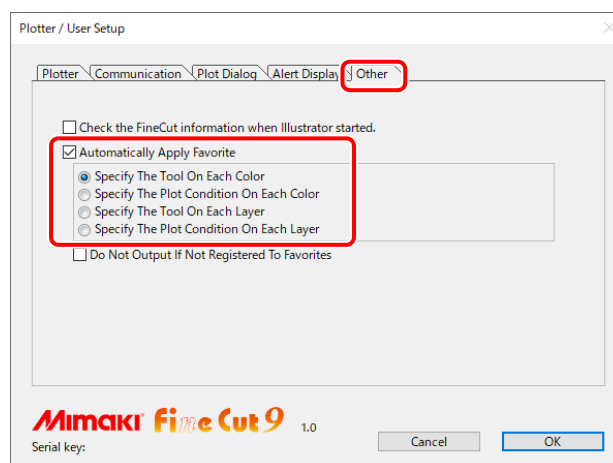
- The registered favorite plot conditions are displayed.

5 Click [Plot] .

- Cutting starts according to the setting contents of the selected favorite.

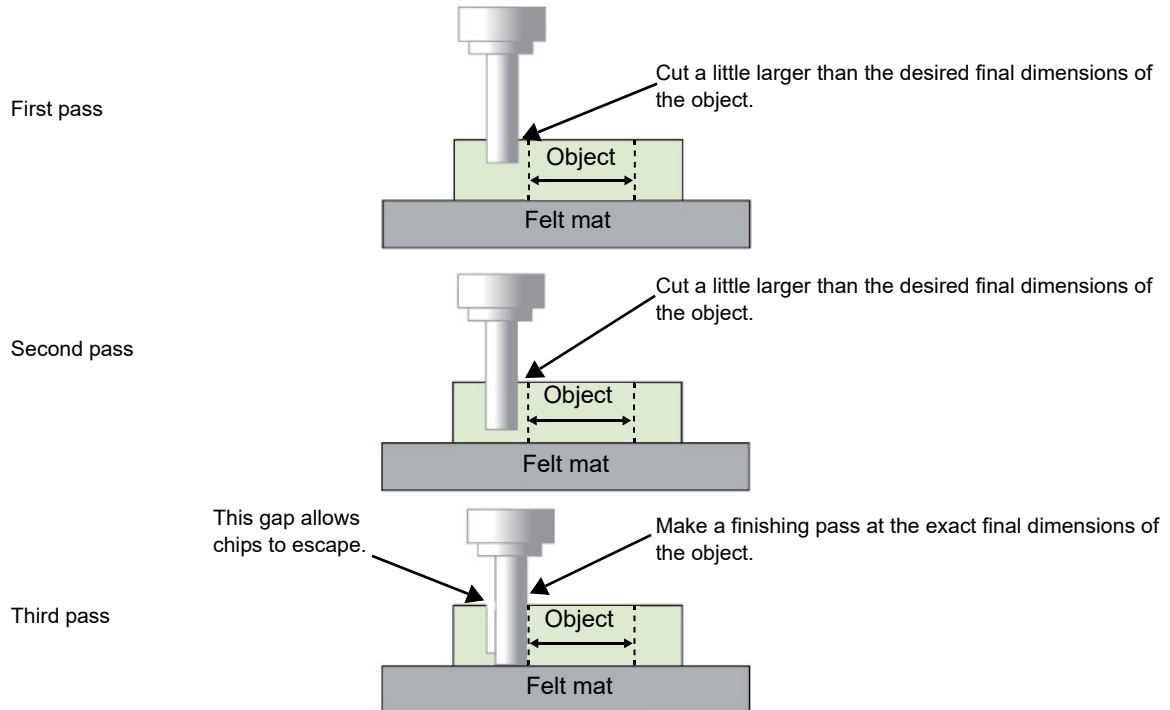


- Automatically Apply Favorite
- By setting [Automatically Apply Favorite] under “Other” of the [Plotter/User Setup] screen, cutting is performed automatically by applying the [Automatically Apply Favorite] that has previously been set automatically even if a favorite is not selected during plotting. Refer to P.7-33 for details.

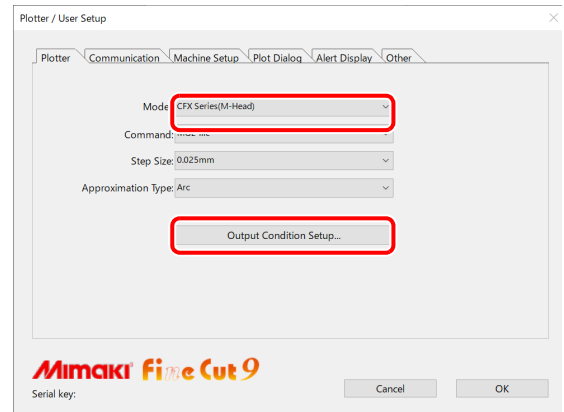


This function is available when using a milling tool with the CFX series. When milling using multiple cutting, the intermediate cuts are slightly larger than the actual product size, and there is a final finishing pass to cut to the correct size. This allows clean cutting edges around the entire object. You can easily create this cutting condition using the Making Condition function.

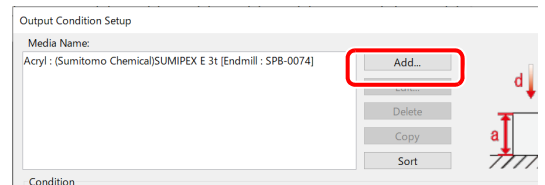
Example: When making three cutting passes.



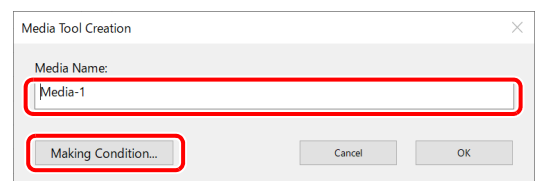
1 Select [CFX Series (R10-Head)] from the [Plotter / User Setup] screen and then click [Output Condition Setup].



2 Click the [Add...] button.

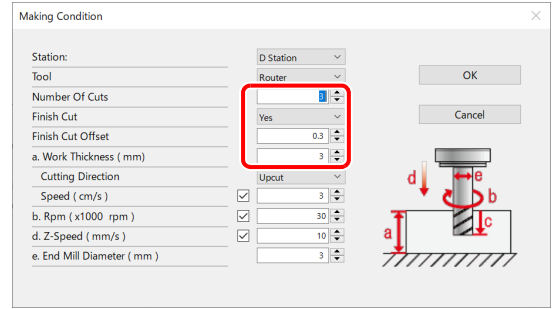


3 Enter the plot conditions name in [Media Name] and then click the [Making Condition] button.



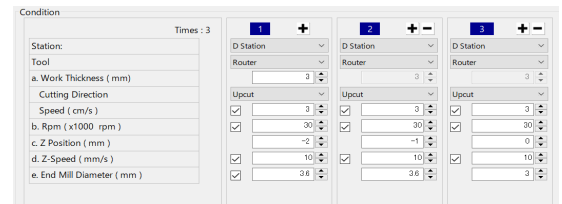
4

Enter [Yes] in [Finish Cut], and then enter the amount of offset for the large cut before the finishing pass in [Finish Cut Offset]. In addition, by entering the number of passes in [Work Thickness] and [Number Of Cuts], it will automatically calculate the Z position for each pass.



5

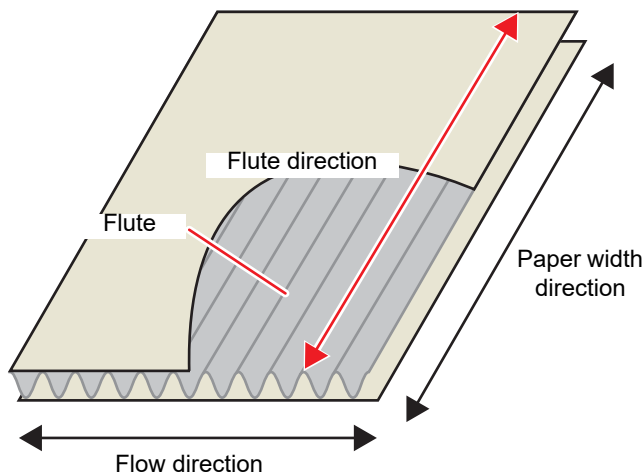
Click the [OK] button to generate the multiple cutting plot conditions.



The pressure of the ruling roller can be automatically adjusted according to the flute (corrugation) direction of the cardboard core.

● Cardboard directions

Cardboard has two directions: the "paper width direction," which is parallel to the flute, and the "flow direction," which is perpendicular to the flute.



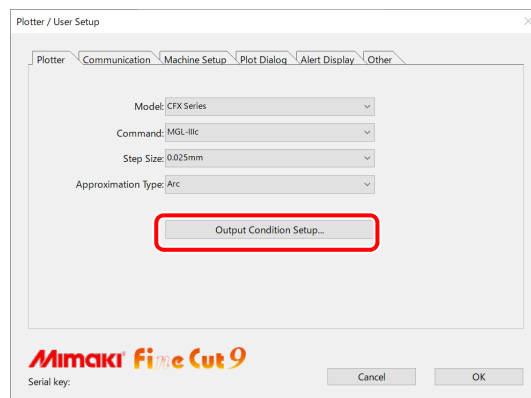
● Foldability

When using the ruling roller to fold, it is easier to bend in the paper width direction, and more difficult to bend in the flow direction.

By changing the pressure of the ruling roller in the paper width direction and the flow direction, appropriate folds can be applied.

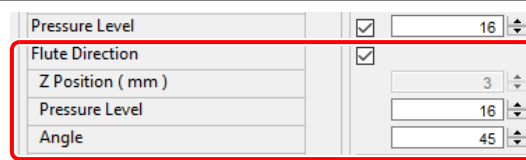
1

On the [Plotter / User Setup] screen, click the [Output Condition Setup...] button.



2

Set conditions for the paper width direction on the [Output Condition Setup] screen.



- For tool, select ruled.
- Turn on flute direction to set the cut condition in the paper width direction.
- [Angle]: Specify the angle at which the paper width setting is applied. P.7-14

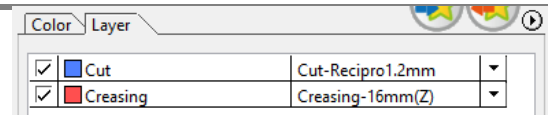
3

Click [Plot] in the FineCut menu.



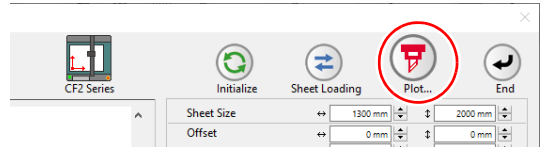
4

In the Output Condition Setting by Color/Layer, set the cutting conditions of Step 2 for the color/layer to be output by the ruled roller.



5

Click  (Plot button).

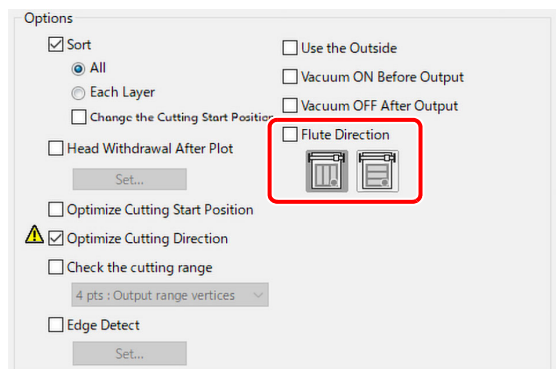


6

Set the work on the plotter.

7

Check [Flute Direction] and select the flute direction of the workpiece placed on the table.

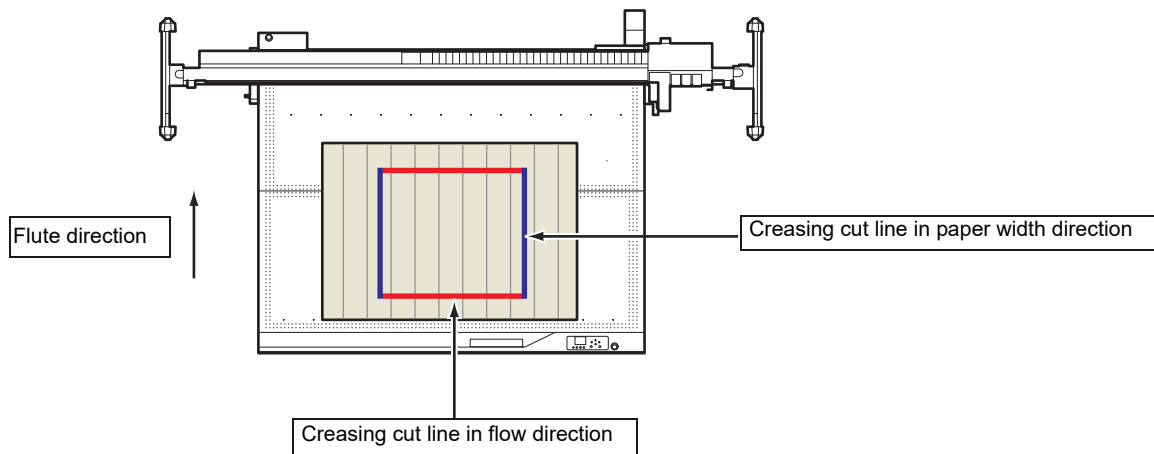


Important!

• If [Flute Direction] is off, the output condition for flute direction is not applied.

- [Vertical]: Select when the flutes are perpendicular to the plotter table.
- [Horizontal]: Select when the flutes are horizontal to the plotter table.

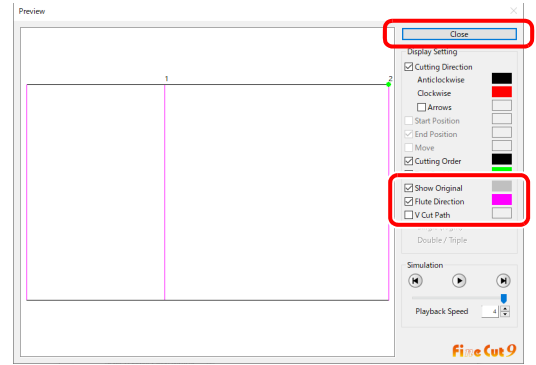
Example: Case where the flutes are perpendicular to the plotter table



8

Confirm that the [Preview] screen shows the correct flute direction and then click [Close].

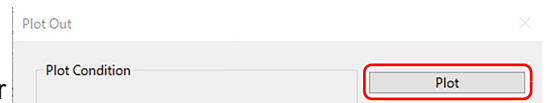
- P.5-29 "Checking the Cutting Process by Preview"
- The [Preview] screen will then close.



9

Click [Plot] .

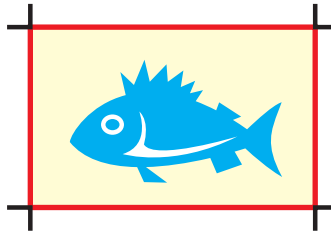
- This automatically identifies lines in the paper width direction and performs output while changing output conditions.



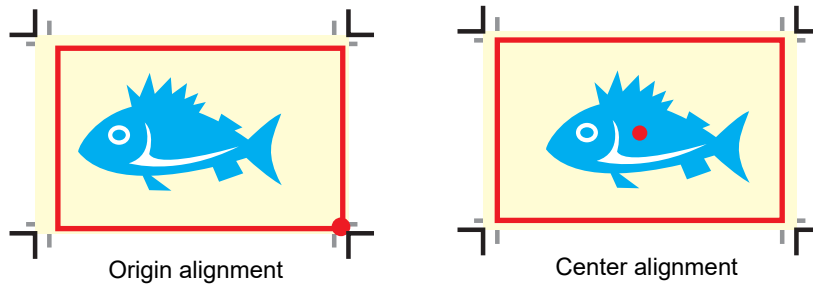
When [Size Adjust] is turned off and the original size is cut, you can select the cutting reference position in case the drawing result expands or contracts and the drawing position of the register mark and the original data do not match.

If [Size Adjust] is ON, the correction is not applied, but is made based on the origin of the resulting register mark.

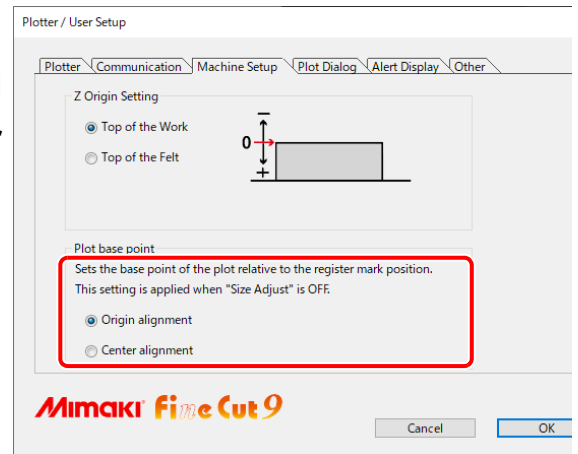
- When the drawing result is not expanded or contracted (the positions of the register marks and the cut data are not misaligned)



- Cut position when the drawing result is expanded or contracted, misaligning the positions of the register marks and the cut data



- 1 On the [Plotter / User Setup] screen, select the [Machine Setup] tab and then select the base point under [Plot base point] and click [OK].



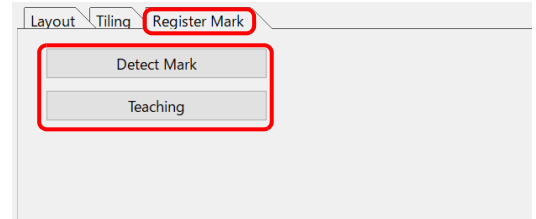
- 2 Click [Plot] in the FineCut menu.



3

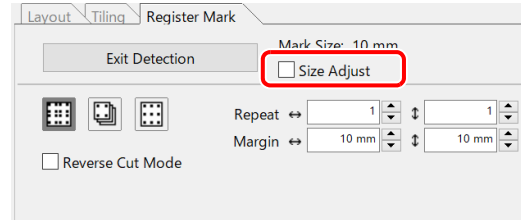
Click the [Register Mark] tab and then click [Detect Mark] or [Teaching].

- This will detect register marks. This will detect register marks.
- If you selected teaching, perform teaching (Step 5 on P.3-74).



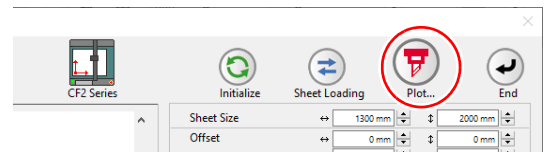
4

Turn off [Size Adjust].



5

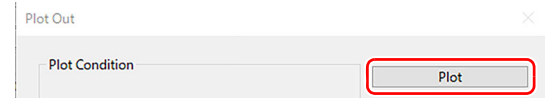
Click  (Plot button).



6

Click [Plot] .

- The result is output at the set base point.



CHAPTER 7

Description of Functions



This section describes the functions of FineCut/Coat.

| | | | |
|---------------------------------------|------|--------------------------------------|------|
| FineCut/Coat Menu..... | 7-2 | [Outline Extraction] Screen..... | 7-58 |
| How to display FineCut/Coat menu | 7-2 | Trace simply | 7-58 |
| Menu | 7-3 | Trace with detail setting | 7-59 |
| [Plotter/User Setup] Screen | 7-4 | [Output to RasterLink] Screen | 7-61 |
| Plotter | 7-4 | [Output to TrotecLaser] Screen | 7-64 |
| Output Condition Setup | 7-5 | [About FineCut/Coat] Screen | 7-66 |
| Communication | 7-29 | [Line Edit Tool] Screen | 7-67 |
| Machine Setup | 7-30 | Setting Cutting Start Position | 7-70 |
| Plot Dialog | 7-34 | [Online Information] Screen..... | 7-71 |
| Alert Display | 7-35 | Uninstallation of FineCut/Coat..... | 7-72 |
| Other | 7-36 | For Windows | 7-72 |
| [Plot] Screen | 7-37 | For Macintosh | 7-72 |
| [Plot Out] Screen | 7-48 | | |

FineCut/Coat Menu

How to display FineCut/Coat menu

Display and select the FineCut/Coat menu from the following menus on Illustrator.

From [Window] menu of Illustrator

Click [Mimaki FineCut/Coat] to display the screen below.

If “DCF-605PU (Digital coating machine)” is selected, [FineCoat] is displayed, and if anything else is selected, [FineCut] is displayed.

Click the button on the screen to start each menu.

FineCut menu

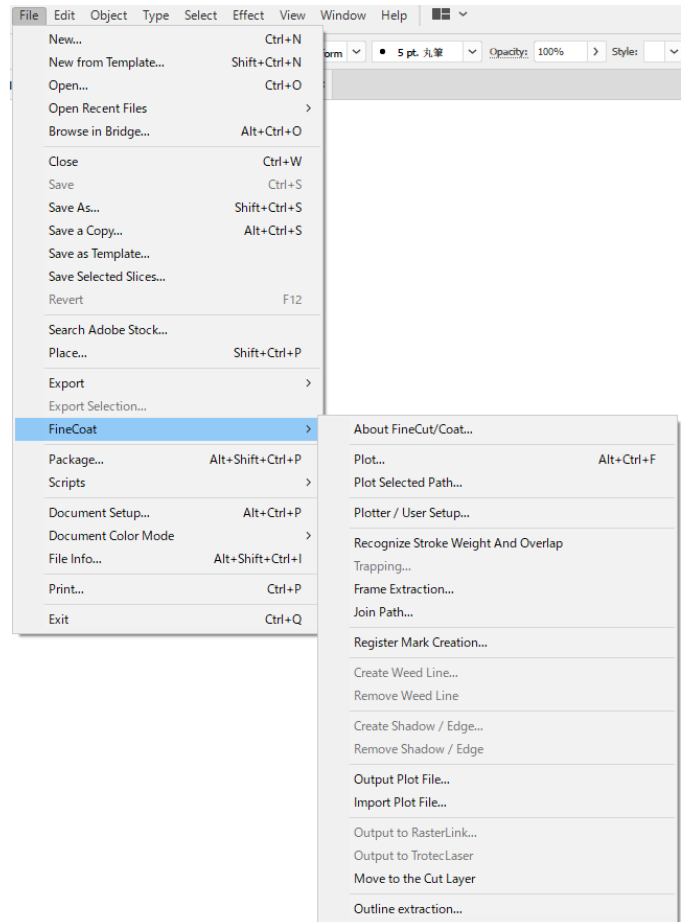
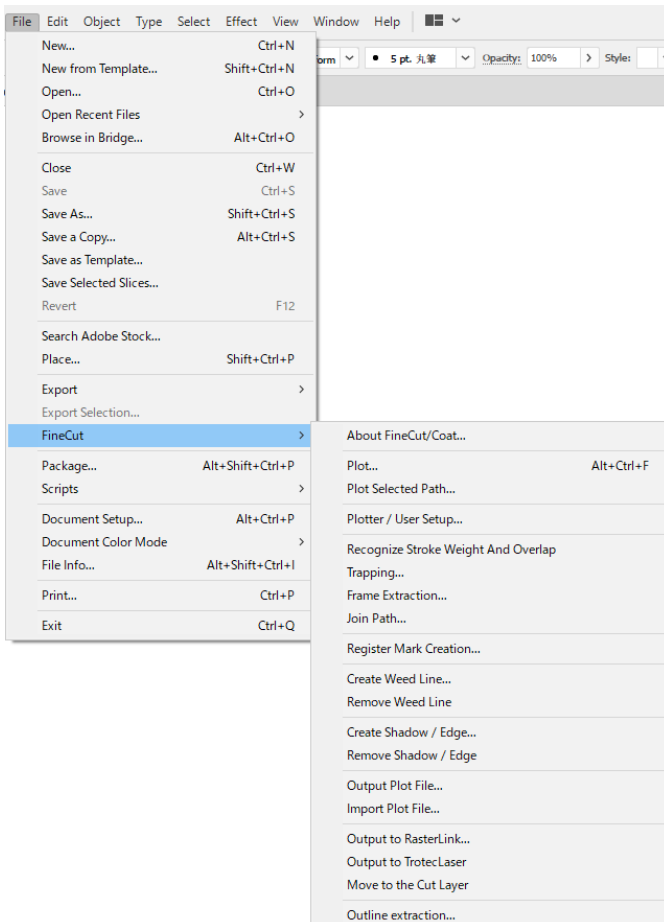


FineCoat menu






















From [File] menu of Illustrator

Click [FineCut/Coat] and click each menu.




Menu

| Button | Menu | Description | Fine-Cut | Fine-Coat |
|---|--|---|----------|-----------|
|  | About FineCut/Coat | Displays the Operation Manual and the latest information of Fine-Cut. (☞ P.7-64) | ✓ | ✓ |
|  | Plot | Sets the layout or options of an object to plot. (☞ P.7-35) | ✓ | ✓ |
|  | Plot Selected Path | Plots only the selected object. | ✓ | ✓ |
|  | Recognize Stroke Weight and Overlap | Recognizes the stroke weight and overlap of the selected object. (☞ P.4-2) | ✓ | ✓ |
|  | Trapping | Traps the selected object. (☞ P.4-3) | ✓ | N/A |
|  | Frame Extraction | Creates a frame for the selected object. (☞ P.3-4) | ✓ | ✓ |
|  | Join Path | Joins corner points of open paths (The path that the start and the end point is not connected). (☞ P.4-4) | ✓ | ✓ |
|  | Register Mark Creation | Creates register marks. (☞ P.3-6) | ✓ | ✓ |
|  | Plotter / User Setup | Sets the plotter used, communication condition to the plotter, or others. (☞ P.7-4) | ✓ | ✓ |
|  | Create Weed Line | Creates a precut line (weed line) around the object to tear off the sticker with ease. (☞ P.4-5) | ✓ | N/A |
|  | Remove Weed Line (in the File menu only) | Removes the created weed line. | ✓ | N/A |
|  | Create Shadow /Edge | Creates a shadow / edge on the object. (☞ P.4-6) | ✓ | N/A |
|  | Remove Shadow / Edge (in the File menu only) | Removes the created shadow / edge on the object. | ✓ | N/A |
|  | Import Plot File... | Imports a saved plot file. (☞ P.4-8) | ✓ | ✓ |
|  | Output Plot File... | Outputs a created plot file to the plotter. (☞ P.4-8) | ✓ | ✓ |
|  | Outline Extraction | Creates an outline to cut a bitmap image. (☞ P.4-10) | ✓ | ✓ |
|  | Output to Raster- Link | Sends the set file to RasterLink.(☞ P.4-12) | ✓ | N/A |
|  | Output to TrotecLa- ser | When using the Trotec Speedy series, the file with various settings is sent to Trotec JobControl.(☞ P.4-17) | ✓ | N/A |
|  | Move to the Cut Layer | Moves the selected path into the newly-created cut layer. The moved data is not printed. (☞ P.4-12) | ✓ | ✓ |

✓ : Available

N/A : Not available

[Plotter/User Setup] Screen

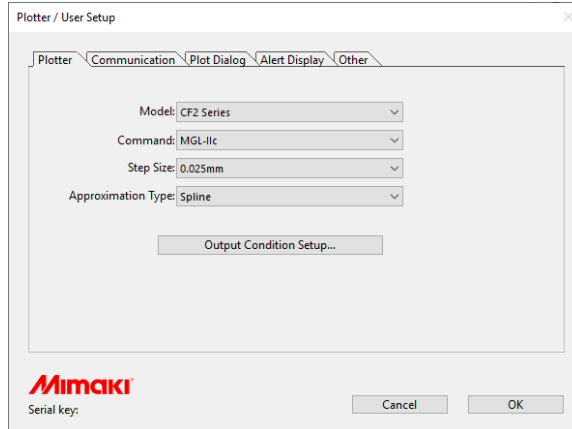
Set the model or communication conditions to enable communication between FineCut/Coat and the plotter.
Click  ([Plotter / User Setup] button) in the FineCut/Coat menu.


Important!

• If the settings set in this screen differs from the settings on the plotter, objects cannot be output normally. Be sure to set the same values as the plotter settings.

Plotter

Set the plotter connected.
Refer to the operation manual of the plotter for details.



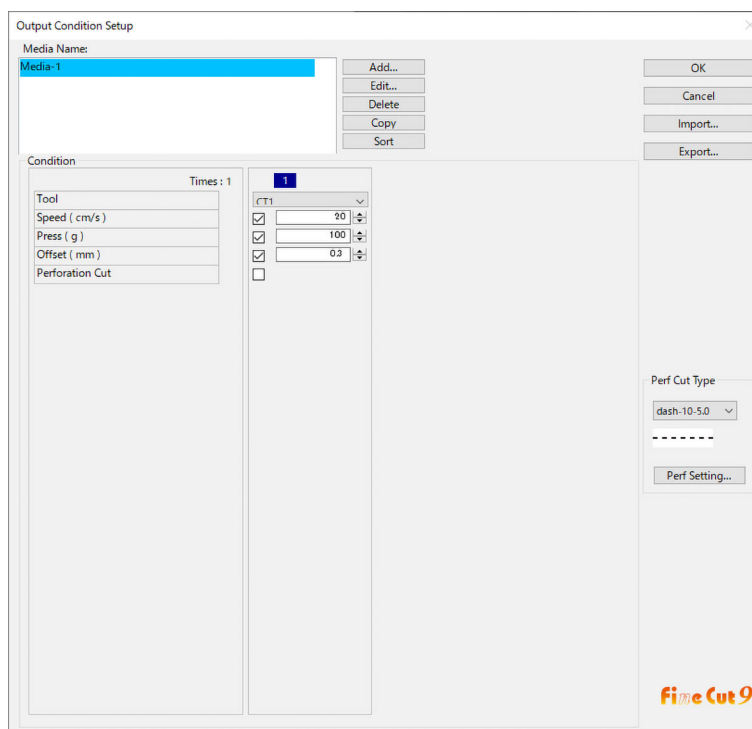
| Item | Description |
|------------------------------------|--|
| Model | Select the plotter model connected. • Once [Model] is selected, the default values of subsequent items are automatically updated. |
| Command | Select the command set on the plotter. |
| Step Size | Select the step size set on the plotter. |
| Approximation Type | Select the approximation type when cutting bezier curves of the object. |
| [Output Condition Setup...] | Set media or tools. ( next page) |

Important!

• If [Approximation Type] has been changed, adjust the cut conditions again.
An excessive pressure by some media could damage the cutter.
• When “CF3 (M-Head)” is selected on [Model], only [Spline] can be selected on [Approximation Type].

Output Condition Setup

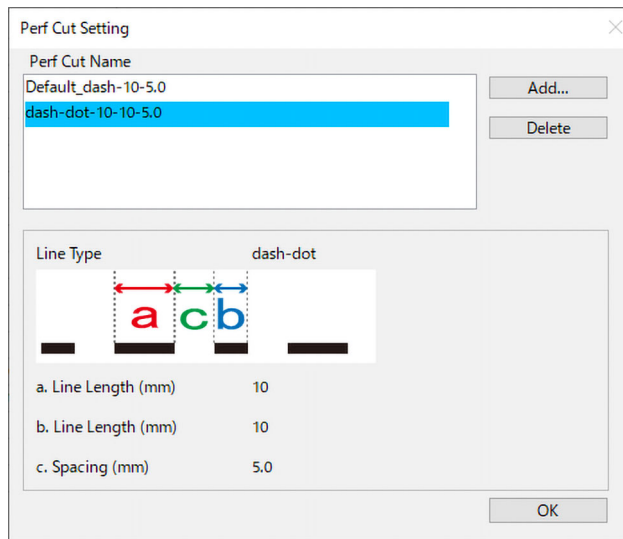
Common to all models



| Item | Description |
|-----------------------|---|
| Media Name | Displays the created media names (output condition). |
| Condition | Display /change the output condition. Select media from [Media Name] to display the output condition. Displayed items vary depending on the selected model. (☞ next page) |
| [Add] | Add the media name. |
| [Edit] | Change the media name. Select media from [Media Name], and click [Edit]. |
| [Delete] | Delete the media name. Select media from [Media Name], and click [Delete]. |
| [Copy] | Copy the media name. Select media from [Media Name], and click [Copy]. |
| [Sort] | Sort the media name in ascending order. |
| [Import] | Import the saved media name (output condition) files. To plot with the same condition in a different environment, click [Import] and load the saved file. |
| [Export] | Save the all media names (output condition) to a file. |
| Default Setup | When output condition is set by color/layer (☞ P.5-14), set output conditions (Tool / Speed / Press / Offset) for frame or mark that cannot be set by color/layer. <ul style="list-style-type: none"> This item is not displayed if the CF3, CFX, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, Trotec Speedy series, Gravotech LS series or DCF-605PU (Digital coating machine) is used. |
| Perf Cut Type | Select a registered perforation cut. Displays an illustration of the selected perforation. |
| [Perf Setting] | Creates a new perforation cut. (☞ next page) |

● Perf Cut Setting screen (when the line type setting is selected)

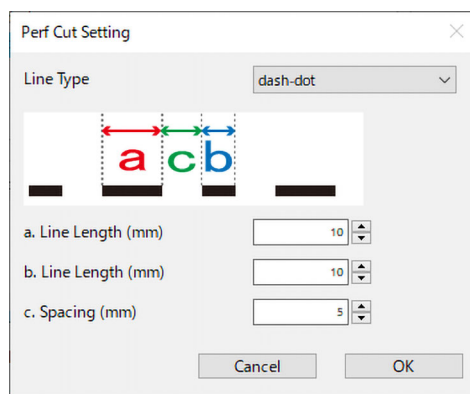
Click [Perf Setting] to display the [Perf Cut Setting] screen.

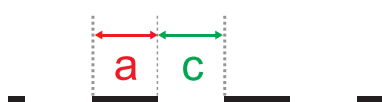
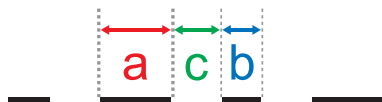


| Item | Description |
|-----------------------|--|
| Perf Cut Name | Displays the registered perforation cut name. The perforation cut name is automatically determined by the following rules. [Line Type]-[a. Line Length]-[b. Line Length]-[c. Line Spacing] |
| [Add] | Creates new perforations. Displays the [Add Perf] screen. (☞ next page) |
| [Delete] | Deletes the selected perforation cut name. (Names marked with "Default" cannot be deleted.) |
| [Line Type] | Displays the setting values for the perforation selected in the Perf Cut Name. |
| a. Line Length | Displays the length to cut. |
| b. Line Length | Displays the length to cut. • [b. Line Length] is displayed only when the line type is dash-dot. |
| c. Spacing | Displays the length to leave. |
| [OK] | Returns to the [Output Condition Setup] screen. |

● Add Perf screen

Click [Add] in the [Perf Cut Setting] screen to display the [Add Perf] screen.



| Item | Description | Default |
|----------------|--|---------|
| [Line Type] | Select the type of perforation. Dash  Dash-dot  | Dash |
| a. Line Length | Displays the length to cut. Range: 5 to 150 mm | 10mm |
| b. Line Length | Displays the length to cut. Range: 5 to 150 mm • This cannot be set if the line type is [Dash]. | 10mm |
| c. Spacing | Displays the length to leave. Range: 0.5 to 5 mm | 5mm |
| [OK] | Saves the settings and returns to the [Output Condition Setup] screen. | - |

When CG, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 or TPC series is selected



- When setting output condition for each color/layer, default setting (for CG series) or the plotter setting (for CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, TPC) is valid for unchecked items on the screen below.
- For more details regarding each item, refer to the Operation Manual of the main unit.

Output Condition Setup

Media Name: Media-1

Condition

times: 1

Tool: CT1

Speed (cm/s): 30

Press (g): 100

Offset (mm): 0.3

Perforation Cut:

Perf Cut Type: dash-10-5.0

Perf Setting...

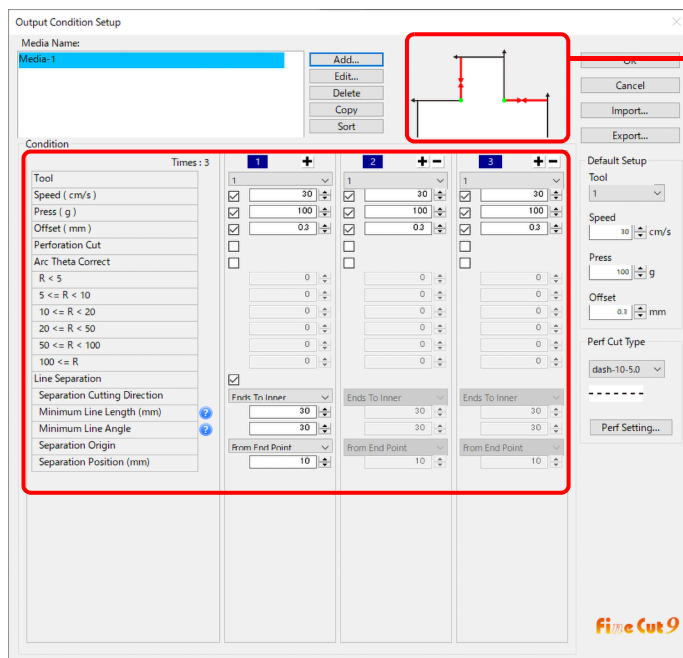
fi/cut 9

| Item | Description | Default |
|------------------------|--|---------|
| Times | Displays the number of cutting. (CG, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, TPC always displays "1".) | -- |
| Tool | Select the tool to be used. (CJV30, TPC series does not have CT4 / CT5 / PIN.) | CT1 |
| Speed | Set cutting speed per second. | 30 |
| Press | Set cutting pressure. | 100 |
| Offset | Offset Set the length from the center of the cutter holder to the blade edge. (It differs depending on the blade type set on the plotter.) | 0.3 |
| Perforation Cut | Select this checkbox if performing perforation cutting. | OFF |

When CF, CF2, DC, CF3 (except M-Head), CFL-605RT, CF22-1225 is selected



- When setting output condition for each color/layer, default setting (for CF/CF2/DC series, CFL-605RT and CF22-1225) or the plotter setting (for CF3 series (except M-Head)) is valid for unchecked items on the screen below.
- For more details regarding each item, refer to the Operation Manual of the main unit.



Check [Separation Cutting Direction] and [Separation Position] changing from the [Separation Origin]. (Displays only when [Line Separation] is selected.)

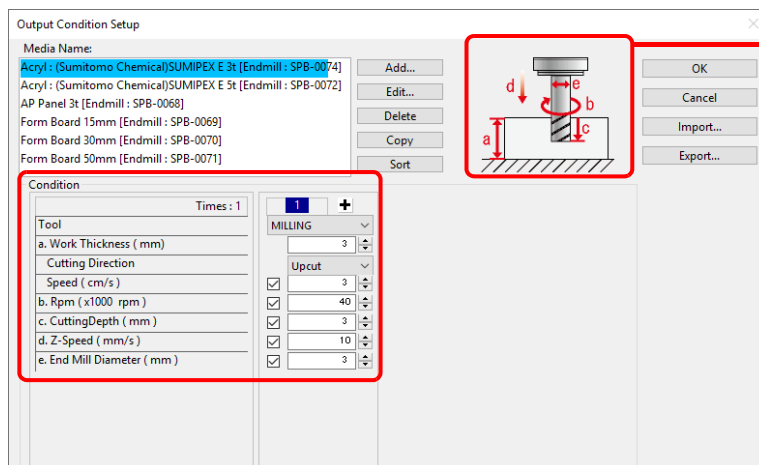
| Item | Description | Default |
|--------------------------|--|-----------|
| Times | Display or set the number of cutting. To cut hard or thick media, set cutting times/speed/pressure multiple times for a single cut line. Click \boxplus to increase the number of cutting. Set the output condition for each cutting. Click \boxminus to decrease the number of cutting. | 1 |
| Tool | Select the tool to be used. Select the tool number or the tool name set on the plotter. <div style="border: 1px solid black; padding: 5px;"> <p>Important!</p> <ul style="list-style-type: none"> • If set the tool number in the output conditions, check the settings of the tool of plotter side. • When cutting the reverse side, be sure to select four-point detection. Before selecting the tool name, check the available tools in the Operation Manual of the main unit. </div> | 1 |
| Speed | Set cutting speed per second. | 30 |
| Press | Set the pressure to cut. | 100 |
| Offset | Set the length from the center of cutter holder to the blade edge. | 0.3 |
| Perforation Cut | Select this checkbox if performing perforation cutting. If this checkbox is selected, the following function is not available. <ul style="list-style-type: none"> • Line Separation | OFF |
| Arc Theta Correct | Adjust the misalignment of origin /end point of the cutting arc. | unchecked |

| Item | | Description | Default |
|-------------------------------|------------------------------|---|----------------|
| Line Separation (☞ P.4-40) | Line Separation | Check this when cutting with lines separated. | unchecked |
| | Separation Cutting Direction | Select cutting direction of the separated line. | Ends To Inner |
| | Minimum Line Length | Set the minimum length of the line to be separated. Click [?] to display descriptions of this item. | 30 |
| | Minimum Line Angle | Set the minimum angle of the line to be separated. Click [?] to display descriptions of this item. | 30 |
| | Separation Origin | Set the origin position of the line to be separated. | From End Point |
| | Separation Position | Specify the separating position with the distance from [Separation Origin]. | 10 |
| ◀ ▶ | | Move to previous / next page. It displays when the number of cutting is more than 4 times. | -- |

When CF3 series (M-Head) is selected



- For unchecked items, default setting is valid.
- For more details regarding each item, refer to the Operation Manual of the main unit.



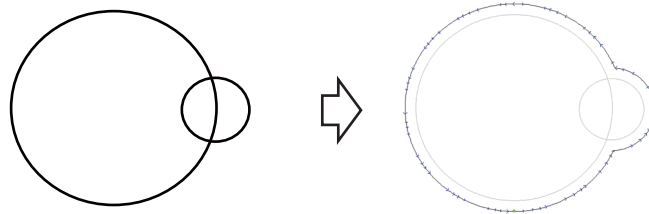
Shows the items of output condition below

| Item | Description | Default |
|----------------------------|--|---------|
| Times | Display or set the number of cutting. To cut hard or thick media, set cutting times/speed/pressure multiple times for a single cut line. Click \boxplus to increase the number of cutting. Set the output condition for each cutting. Click \boxminus to decrease the number of cutting. | 1 |
| Tool | Displays [MILLING]. | -- |
| a Work Thickness | Set the thickness of work (media) (50mm maximum). You can set only on the first column of the cutting condition setting field. | 3 |
| Cutting Direction | Select cutting direction. Changing cutting direction, the finish of the cut face may improve. Cut for test with the target media first, and check the finishing. <ul style="list-style-type: none"> • Up-Cut:Cuts the left side of the end mill direction as a work. • Down-Cut:Cuts the right side of the end mill direction as a work. <div style="text-align: center;"> </div> | Upcut |
| Speed | Set the speed of the end mill to move in the direction of travel. | 3 |
| b Rpm | Set the spin times of end mill. Set the number to time 1000rpm, the base number. | 30x1000 |
| c Cutting Depth | Set the origin position of Z axis (Length from the surface of the work to the edge of the end mill). | 3 |
| d Z-Speed | Set the speed of the end mill to go into the work. | 10 |
| e End Mill Diameter | Set the end mill diameter. Offset value is set half of the set value on this screen. If offset is not necessary, uncheck the box of the first column of the cutting condition setting field. | 3 |
| | Move to previous / next page. It displays when the number of cutting is more than 4 times. | -- |

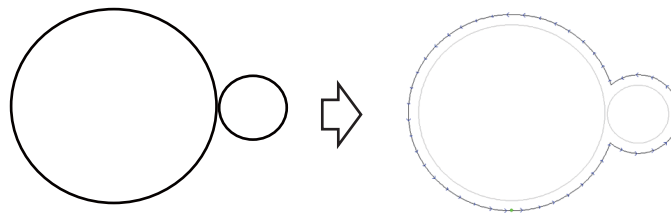
● Offset

When CF3 (M-Head) is selected and [End Mill Diameter] is set, the object is offset and cut as follows depending on the object on Illustrator and the setting of FineCut.

- If paths are crossed, periphery is offset.
- The path in the crossed path is not cut.



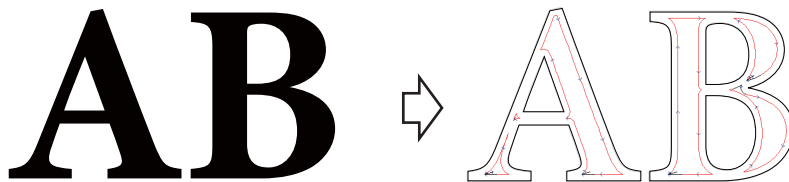
- If offset objects are touched each other, the objects are united.



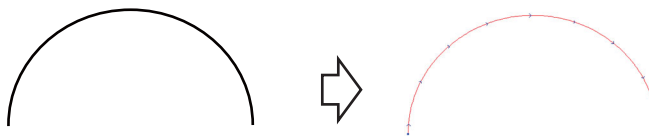
- If copy function is used, set [Copy Margin] wide (more than 10mm), not to go one object over the next object.



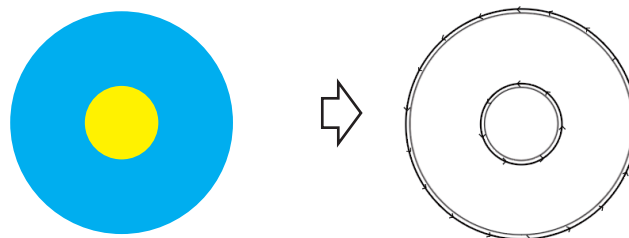
- If one part goes over the other part when offsetting inward, the part over the other part is not cut.



- An open path is not offset.



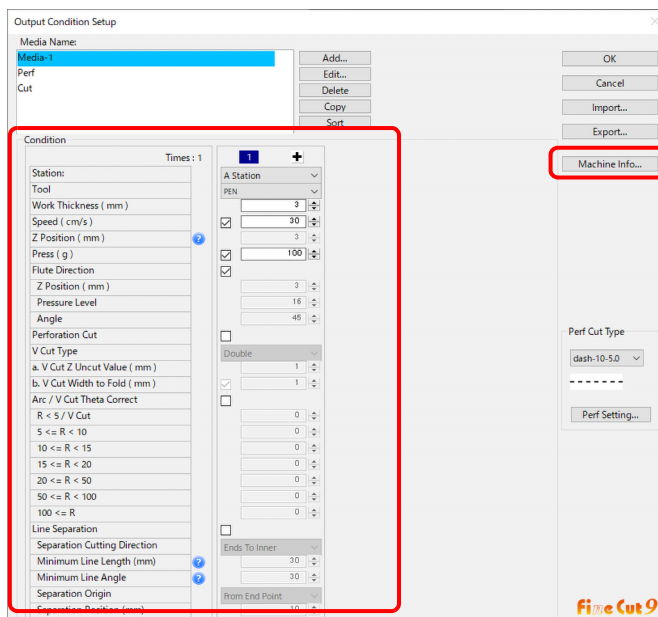
- If output condition is set on each color /layer, each color /layer is offset.



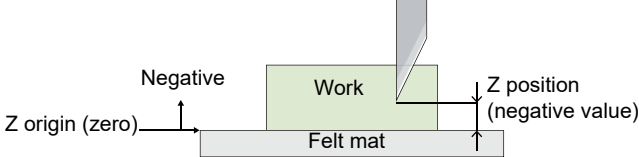
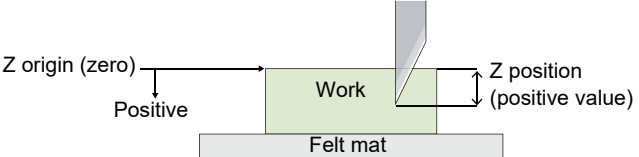

When CFX series (except R10-Head) is selected

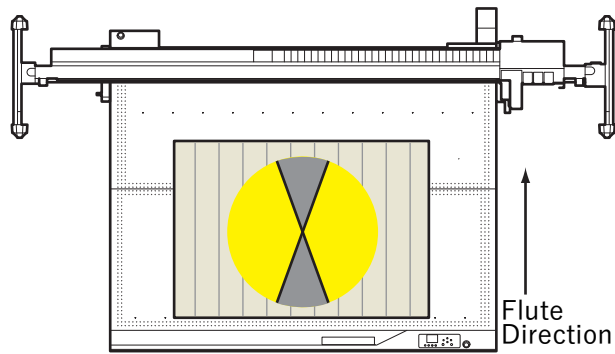


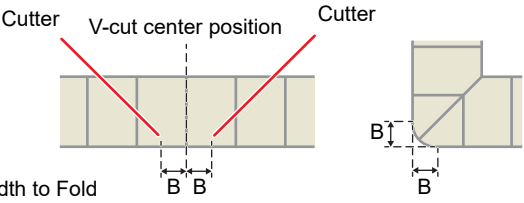
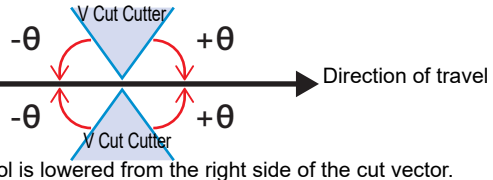
- For unchecked items, the default plotter settings are valid.
- For more details regarding each item, refer to the Operation Manual of the main unit.



| Item | Description | | Range | Default |
|----------------------------|--|---|---|-----------|
| Station | Selects the station where the tool is to be mounted. | <ul style="list-style-type: none"> ● A Station <ul style="list-style-type: none"> • PEN • Marker • Swivel Cut ● B/C Station <ul style="list-style-type: none"> • Flat blade • Reciprocating 1.2 mm • Reciprocating 3.5 mm • Reciprocating 6.0 mm • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15) • Creasing 16 mm (T30) • Creasing 26 mm (T30) • Creasing 60 mm (T30) • Creasing 16 mm (Z Pos.) • Creasing 26 mm (Z Pos.) • Creasing 60 mm (Z Pos.) • V-Cut 45 deg • V-Cut Angle Selection ● D Station <ul style="list-style-type: none"> • Flat blade • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15) • Creasing 16 mm (T30) • Creasing 26 mm (T30) • Creasing 60 mm (T30) • Creasing 16 mm (Z Pos.) • Creasing 26 mm (Z Pos.) • Creasing 60 mm (Z Pos.) • V-Cut 45 deg • V-Cut Angle Selection | A Station B Station C Station D Station | A Station |
| Tool | Selects the type of tool to mount on the station. | | <ul style="list-style-type: none"> • PEN • Marker • Swivel Cut • Flat blade • Reciprocating 1.2 mm • Reciprocating 3.5 mm • Reciprocating 6.0 mm • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15) • Creasing 16 mm (T30) • Creasing 26 mm (T30) • Creasing 60 mm (T30) • Creasing 16 mm (Z Pos.) • Creasing 26 mm (Z Pos.) • Creasing 60 mm (Z Pos.) • V-Cut 45 deg • V-Cut Angle Selection | PEN |
| Work Thickness (mm) | Sets the thickness of the work (media). | | 0 to 54 mm | 3 |

| Item | Description | Range | Default |
|------------------------|---|--|---|
| Speed (cm/s) | Sets the cutting speed in the X/Y direction. | 0.1 to 100 cm/s | 30 cm/s |
| Z Position (mm) | <p>Sets the tool tip Z position when the tool is lowered. This can be set when the following tools are selected:</p> <ul style="list-style-type: none"> • Flat blade • Reciprocating 1.2 mm • Reciprocating 3.5 mm • Reciprocating 6.0 mm • Creasing 16 mm (Z Pos.) • Creasing 26 mm (Z Pos.) • Creasing 60 mm (Z Pos.) <p>• On the [Machine Setup] tab in [Plotter / User Setup], the distance from the specified Z origin is set with positive values indicating the downwards direction.</p> <p>• If you wish to set the Z position to a point below the felt mat, adjust the Z origin using the Z origin offset setting on the main unit panel.</p> <p>[Side View]</p> <p>■ When the Z origin is set to [Top Of The Felt]</p>  <p>■ When the Z origin is set to [Top Of The Work]</p>  <p>Click  to display descriptions of this item.</p> | <p>When the Z origin setting is [Top Of The Work] -2 to 55.5 mm</p> <p>When the Z origin is set to [Top Of The Felt] -56 to 1.5 mm</p> | <p>When the Z origin is set to [Top Of The Work] 3 mm</p> <p>When the Z origin is set to [Top Of The Felt] 0 mm</p> |
| Pressure (g) | <p>Sets the tool pressure in grams. This can be set when the following tools are selected:</p> <ul style="list-style-type: none"> • PEN • Marker • Swivel cut | 20 to 1,000 g | 30 g |
| Pressure Level | <p>Sets the tool pressure level. This can be set when the following tools are selected:</p> <ul style="list-style-type: none"> • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15) • Creasing 16 mm (T30) • Creasing 26 mm (T30) • Creasing 60 mm (T30) | <p>When the following tools 1 to 16</p> <ul style="list-style-type: none"> • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15) <p>When the following tools 16 to 31</p> <ul style="list-style-type: none"> • Creasing 16 mm (T30) • Creasing 26 mm (T30) • Creasing 60 mm (T30) | 16 |
| Flute Direction | Select the checkbox to change the pressure level of the tool (or the Z-position of the tool's lowest point) according to the direction of the cardboard flutes (corrugations). | - | - |

| Item | Description | Range | Default |
|--|---|--|---|
| Z position paper width direction (mm) | <p>Sets the Z position of the tool tip when lowering the tool to create a crease in the cardboard's paper width direction (parallel to the flutes).</p> <ul style="list-style-type: none"> • Creasing 16 mm (Z Pos.) • Creasing 26 mm (Z Pos.) • Creasing 60 mm (Z Pos.) | <p>When the Z origin setting is [Top Of The Work] -2 to 55.5 mm</p> <p>When the Z origin is set to [Top Of The Felt] -56 to 1.5 mm</p> | <p>When the Z origin is set to [Top Of The Work] 3 mm</p> <p>When the Z origin is set to [Top Of The Felt] 0 mm</p> |
| Press level paper width direction | <p>Sets the pressure level of the tool when creating a crease in the cardboard's paper width direction (parallel to the flutes).</p> <p>This can be set when the following tools are selected:</p> <ul style="list-style-type: none"> • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15) • Creasing 16 mm (T30) • Creasing 26 mm (T30) • Creasing 60 mm (T30) | <p>When the following tools 1 to 16</p> <ul style="list-style-type: none"> • Creasing 16 mm (T15) • Creasing 26 mm (T15) • Creasing 60 mm (T15) <p>When the following tools 16 to 31</p> <ul style="list-style-type: none"> • Creasing 16 mm (T30) • Creasing 26 mm (T30) • Creasing 60 mm (T30) | 16 |
| Angle | <p>Sets an upper limit for the path angle to which the paper width direction setting is applied, with the flute direction used as the reference (0°).</p> <p>Example: Case where the flute direction is perpendicular and the angle is set to 10°.</p>  <ul style="list-style-type: none"> • Flow direction: Range in yellow • Paper width direction: Range in grey, black lines • Black lines: 10° when the flute direction is 0° | 1 to 45 degree | 45 degree |
| Perforation Cut | <p>Select this checkbox to perform perforation cutting.</p> <ul style="list-style-type: none"> • If this checkbox is selected, the following setting is not available. <ul style="list-style-type: none"> • Line Separation | - | OFF |
| V Cut Type | <p>Selects the cutting method when the V-cut cutter tool is selected.</p> <ul style="list-style-type: none"> • P.5-41 "V-cut (CFX series)" | Single (Right) Double Triple | Double |
| V Cut Z Uncut Value (mm) | <p>Selects the Uncut Value in the Z direction when the V-cut cutter tool is selected.</p> <ul style="list-style-type: none"> • P.5-41 "V-cut (CFX series)" | -2 to 20 mm | 1 mm |

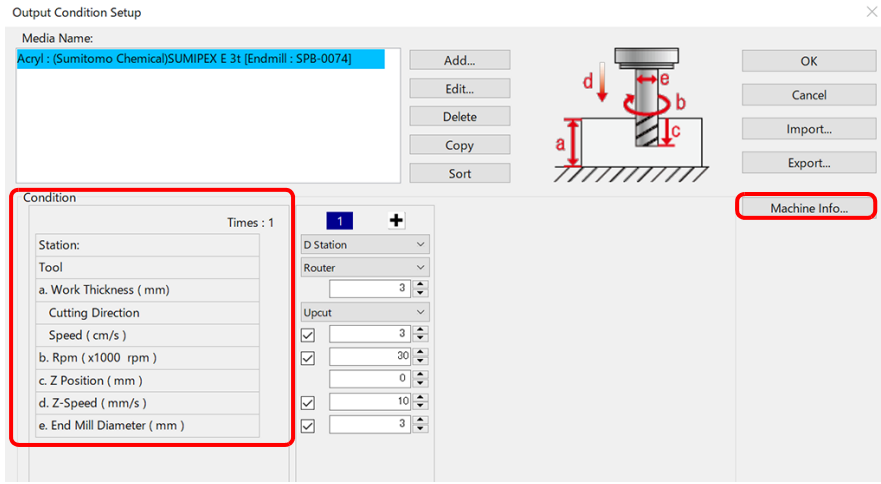
| Item | Description | Range | Default |
|----------------------------------|---|---------------------|----------|
| V Cut Width to Fold (mm) | <p>Sets the Width to Fold when the V-cut cutter tool is selected.</p> <ul style="list-style-type: none"> If this item is unchecked, the fold width is automatically calculated based on the V Cut Z Uncut Value. <p>[Side View] Example: When the V Cut Type is set to "Double"</p>  <p>B: Width to Fold</p> | -2 to 20 mm | 1 mm |
| Arc / V Cut Theta Correct | <ul style="list-style-type: none"> Check this to perform correction using the set theta correction angle. When the V-cut cutter tool is selected, it sets the theta correction angle for the V-cut. Enter the value from the sample cutting on the machine main unit. <p>For the method of sample cutting, refer to the Operation Manual of the main unit.</p> <p>[Top View]</p> <p>The tool is lowered from the left side of the cut vector.</p>  <p>The tool is lowered from the right side of the cut vector.</p> | - | - |
| R < 5 / V Cut | Sets the theta correction angle when using a radius that is less than 5 mm. When using V-cut, it sets the theta correction value. | -20 to +20 degree | 0 degree |
| 5 <= R < 10 | Sets the theta correction angle when using a radius of 5 mm or more and less than 10 mm. | -9.8 to +9.8 degree | 0 degree |
| 10 <= R < 15 | Sets the theta correction angle when using a radius of 10 mm or more and less than 15 mm. | -9.8 to +9.8 degree | 0 degree |
| 15 <= R < 20 | Sets the theta correction angle when using a radius of 15 mm or more and less than 20 mm. | -9.8 to +9.8 degree | 0 degree |
| 20 <= R < 50 | Sets the theta correction angle when using a radius of 20 mm or more and less than 50 mm. | -9.8 to +9.8 degree | 0 degree |
| 50 <= R < 100 | Sets the theta correction angle when using a radius of 50 mm or more and less than 100 mm. | -9.8 to +9.8 degree | 0 degree |
| 100 <= R | Sets the theta correction angle when using a radius of 100 mm or more. | -9.8 to +9.8 degree | 0 degree |

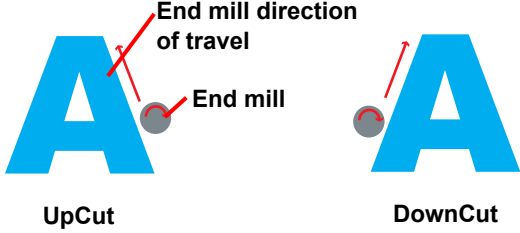
| Item | Description | Range | Default |
|------------------------------------|---|------------------------------------|----------------|
| Line Separation | When this is checked, automatic separation cutting is performed according to the values set in the following items. | Checked/ Unchecked | Unchecked |
| Separation Cutting Method | Selects the cutting direction after separation. | Ends To Inner Inner To Ends | Ends To Inner |
| Minimum Line Length (mm) | Separates lines that are longer than the set line length. | 10 to 1,000 mm | 30 mm |
| Minimum Line Angle (degree) | Separates the line when it exceeds the set angle. | 1 to 180 degree | 30 degree |
| Separation Origin | Selects the origin to separate the lines. | From Start Point From End Point | From End Point |
| Separation Position (mm) | Sets the separation position. Enter the distance from the origin. | 5 to 1000 mm | 10 mm |
| Machine information | Shows information on the tool mounting status and work thickness of all connected CFX series. <div data-bbox="459 808 1023 1072" data-label="Image"> </div> <div data-bbox="416 1093 1115 1178" data-label="Text"> <p>Important! • Work thickness information cannot be obtained when using a serial connection.</p> </div> | - | - |


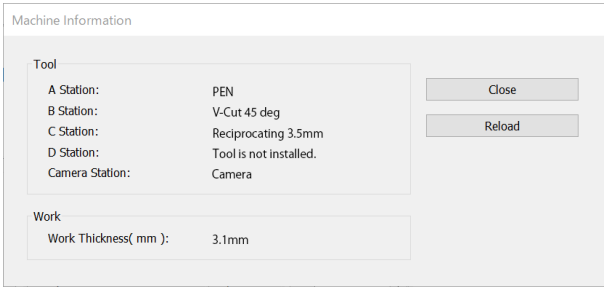

When CFX series (R10-Head) is selected




- For unchecked items, the default plotter settings are valid.
- For more details regarding each item, refer to the Operation Manual of the main unit.



| Item | Description | Range | Default |
|---------------------------------------|--|----------------------|--------------|
| Station | Selects the station where the tool is to be mounted. • This is fixed to "D Station". | D Station | D Station |
| Tool | Selects the type of tool to mount on the station. • This is fixed to "Router". | Router | Router |
| Work Thickness (mm) | Sets the thickness of the work (media). | 0 to 54 mm | 3 mm |
| Cutting Direction | Selects the cutting direction. Changing the cutting direction may improve the finish of the cut face. Perform a test cut with the target media in advance, and then check the finishing quality of the cut. <ul style="list-style-type: none"> • Upcut Cuts the work on the left side of the end mill direction of travel. • Downcut Cuts the work on the right side of the end mill direction of travel.  | Upcut Downcut | Upcut |
| Speed (cm/s) | Sets the cutting speed in the X/Y direction. | 0.1 to 100 cm/s | 5 cm/s |
| Speed of Rotation (x1,000 rpm) | Set the speed of rotation of the end mill. This can be set in multiples of the base speed of 1,000 rpm. | 18 to 40 x 1,000 rpm | 30 x1000 rpm |

| Item | Description | Range | Default |
|-------------------------------|---|---|--|
| Z Position (mm) | Sets the tool tip Z position when the tool is lowered. Click  to display descriptions of this item. | When the Z origin setting is [Top Of The Work] -2 to 55.5 mm When the Z origin is set to [Top Of The Felt] -56 to 1.5 mm | When the Z origin is set to [Top Of The Work] 3 mm When the Z origin is set to [Top Of The Felt] 0 mm |
| Z Speed (mm/s) | Sets the tool lowering speed in the Z direction. | 1 to 300 mm/s | 10 mm/s |
| End Mill Diameter (mm) | Sets the end mill diameter. The offset value is set to half the value on this screen. | 0 to 10 mm | 3 mm |
| Machine information | Shows information on the tool mounting status and work thickness of all connected CFX series.   • Work thickness information cannot be obtained when using a serial connection. | - | - |

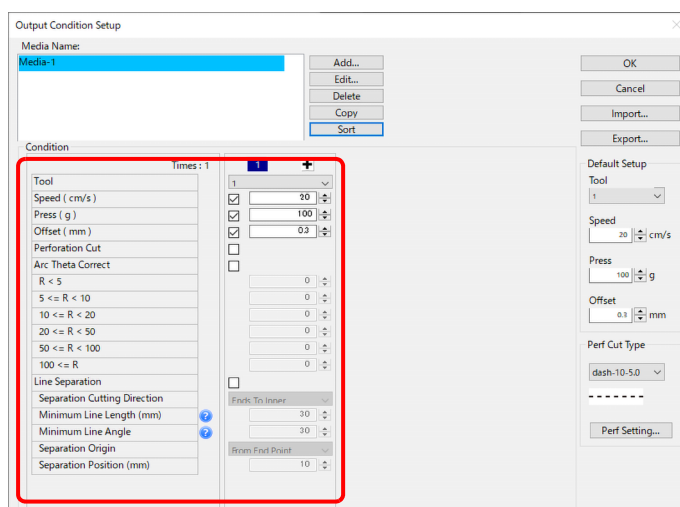
● More information regarding the offset

 Refer to P.7-12 "Offset".

When CFL-605RT is selected



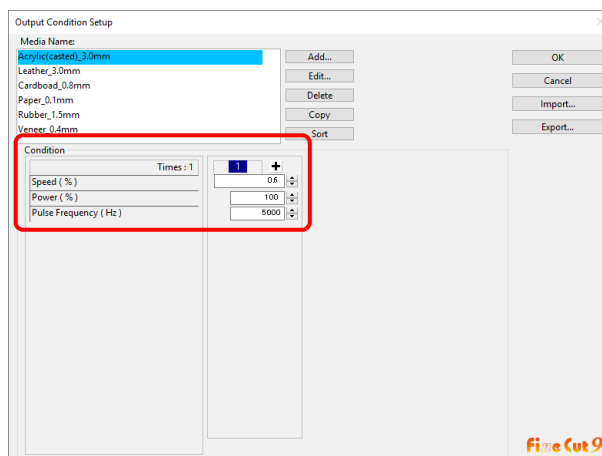
- For unchecked items, the default plotter settings are valid.
- For more details regarding each item, refer to the Operation Manual of the main unit.



| Item | Description | Default |
|--------------------------|--|-----------|
| Times | Display or set the number of cutting. To cut hard or thick media, set cutting times/speed/pressure multiple times for a single cut line. Click to increase the number of cutting. Set the output condition for each cutting. Click to decrease the number of cutting. | 1 |
| Tool | Select the tool number or name of the tool to be use. <div style="border: 1px solid black; padding: 5px;"> <p>Important!</p> <ul style="list-style-type: none"> • If set the tool number in the output conditions, check the settings of the tool of plotter side. • Check the pen number allocation of plotter side, and set of FineCut. • When cutting the reverse side, be sure to select four-point detection. Before selecting the tool name, check the available tools in the Operation Manual of the main unit. • If use the tool of B unit in the CFL-605RT, ruling roller, reciprocating cutter, tangential cutter can not be used at the same time. In the case of "cut with reciprocating cutter after ruling" or so, output the cut data for each tool. </div> | 1 |
| Speed | Set cutting speed per second. | 20 |
| Press | Set the pressure to cut. | 100 |
| Offset | Set the length from the center of cutter holder to the blade edge. | 0.3 |
| Perforation Cut | Select this checkbox to perform perforation cutting. <ul style="list-style-type: none"> • If this checkbox is selected, the following setting is not available. <ul style="list-style-type: none"> • Line Separation | OFF |
| Arc Theta Correct | Adjust the misalignment of origin /end point of the cutting arc. | unchecked |

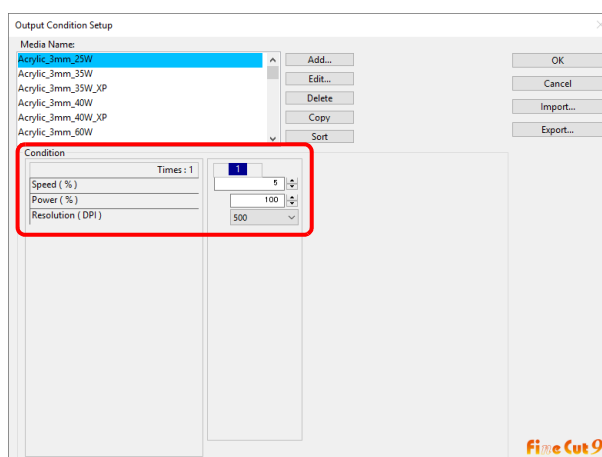
| Item | Description | Default | |
|-------------------------------|--|--|----------------|
| Line Separation (☞ P.4-40) | Line Separation | Check this when cutting with lines separated. | unchecked |
| | Separation Cutting Direction | Select cutting direction of the separated line. | Ends To Inner |
| | Minimum Line Length | Set the minimum length of the line to be separated. Click ? to display descriptions of this item. | 30 |
| | Minimum Line Angle | Set the minimum angle of the line to be separated. Click ? to display descriptions of this item. | 30 |
| | Separation Origin | Set the origin position of the line to be separated. | From End Point |
| | Separation Position | Specify the separating position with the distance from [Separation Origin]. | 10 |
| ◀ ▶ | Move to previous / next page. It displays when the number of cutting is more than 4 times. | -- | |

When Trotec Speedy series is selected



| Item | Description | Default |
|-----------------------------|--|---------|
| Times | Display or set the number of cutting. | 1 |
| Speed (%) | Set the speed of laser head movement. Faster speeds result in shorter exposure, and slower speeds result in longer exposure. The higher the value, the faster the speed. | 5 |
| Power (%) | Set the intensity of laser output. The higher the value, the higher the intensity of laser output. | 50 |
| Pulse Frequency (Hz) | Set the pulse frequency. Example: High temperatures are required for a smooth cut surface in acrylic cutting, so set in the range of 5000–10000 Hz. | 5000 |

When Gravotech LS series is selected

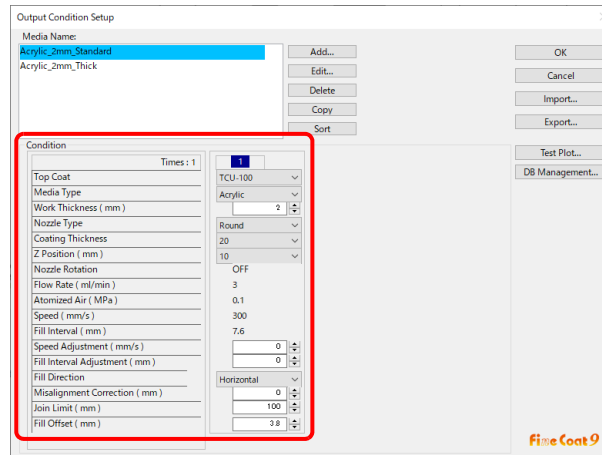


| Item | Description | Default |
|------------------------|---|---------|
| Speed | Display the number of cutting. | 1 |
| Speed (%) | Set the speed of laser head movement. Faster speeds result in shorter exposure, and slower speeds result in longer exposure. The higher the value, the faster the speed | 5 |
| Power (%) | Set the intensity of laser output. The higher the value, the higher the intensity of laser output. | 50 |
| Resolution(DPI) | Specify the resolution to cut. The resolution changes the pulse frequency. Select [Unspecified] if you want to make the cut surface smooth with acrylic cut. | 500 |

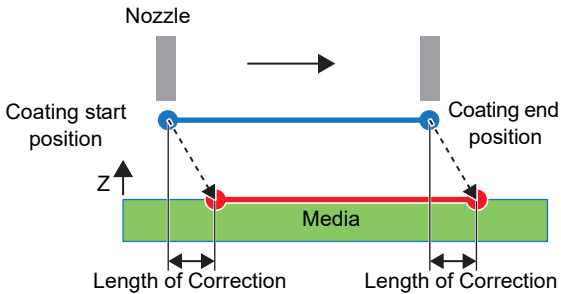
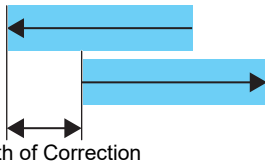
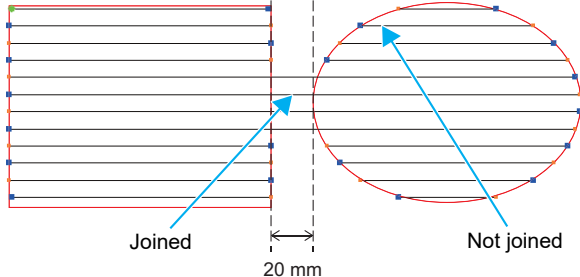
When DCF-605PU (digital coating machine) is selected



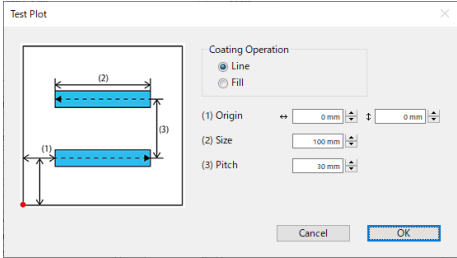
- The digital coating machine settings apply for those items that are not checked.
- For the details of each item, refer to the digital coating machine operation manual.

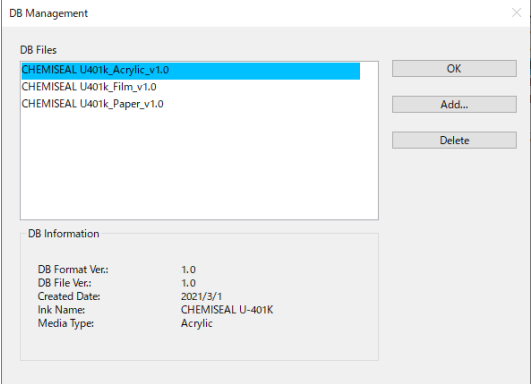


| Item | Description | Range | Default |
|-------------------------------|---|--|---------|
| Top Coat | Selects the top coat to be applied. • Select from the [Top Coat] list registered in the database. | Database registration Top Coat | - |
| Media Type | Selects the media type to be coated. • Select from the [Media Type] list registered in the database. • Only those media compatible with the selected [Top Coat] are displayed. | Database registration Media Type | - |
| Work Thickness (mm) | Specifies the thickness of the work to be coated. • A warning is displayed if the sum of the work thickness and Z position exceeds 50 mm. | 0 to 50 | 2 |
| Nozzle Type | Selects the type of nozzle for output. • Select from the [Nozzle Type] list registered in the database. • Only those nozzles compatible with the specified [Top Coat] and [Media Type] are displayed. | Database registration Nozzle | - |
| Coating Thickness (μm) | Selects the thickness of the top coat to be applied. • Select from the [Coating Thickness] list registered in the database. • Only those coating thicknesses compatible with the specified [Top Coat], [Media Type], and [Nozzle Type] are displayed. Important! • The actual coating thickness may vary within a range of $\pm 20\%$. | Database registration Coating Thickness | - |
| Z Position (mm) | Selects the height from the surface of the work to the nozzle tip. • Select from the [Z Position] list registered in the database. • Only those Z positions compatible with the specified [Top Coat], [Media Type], [Nozzle Type], and [Coating Thickness] are displayed. | Database registration Z Position | - |
| Nozzle Rotation | Displays whether or not the nozzle is rotated in the direction of travel. • The [Nozzle Rotation] information registered in the database is displayed. • This is determined by the specified [Nozzle Type]. | - | - |
| Flow Rate (ml / min) | Displays the flow rate when adjusting using the flow rate meter. • The flow rates compatible with the specified [Top Coat], [Media Type], [Nozzle Type], [Coating Thickness], and [Z Position] are displayed. | - | - |
| Atomized Air (MPa) | Displays the atomized air adjustment value. • The atomized air compatible with the specified [Top Coat], [Media Type], [Nozzle Type], [Coating Thickness], and [Z Position] are displayed. | - | - |
| Speed (mm/s) | Displays the head movement speed during coating. • The coating speeds compatible with the specified [Top Coat], [Media Type], [Nozzle Type], [Coating Thickness], and [Z Position] are displayed. | - | - |

| Item | Description | Range | Default |
|--------------------------------------|--|-----------------------|------------|
| Fill Interval (mm) | Displays the fill interval. • The fill intervals compatible with the specified [Top Coat], [Media Type], [Nozzle Type], [Coating Thickness], and [Z Position] are displayed. | - | - |
| Speed Adjustment (mm/s) | Enter the value for adjusting the coating speed. • A warning is displayed if the value after adjustment exceeds the permitted range for the machine. | -300 to +300 | 0 |
| Fill Interval Adjustment (mm) | Enter the value for adjusting the fill interval. • A warning is displayed if the value after adjustment is less than 1 mm. | -50 to +50 | 0 |
| Fill Direction | Selects the fill direction. | Horizontal / Vertical | Horizontal |
| Misalignment Correction (mm) | <p>Enter the coating misalignment adjustment value.</p> <ul style="list-style-type: none"> Moves the coating start and end positions to adjust any coating misalignment (see diagram below).  <ul style="list-style-type: none"> Adjust the coating misalignment adjustment value by checking the coating results using the [Test Plot] function. <p>• Coating misalignment adjustment procedure</p> <ol style="list-style-type: none"> Enter "0" for [Misalignment Correction], then click the [Test Plot] button. On the [Test Plot] screen, select [Line], then click the [OK] button. Measure the extent of misalignment of the coated line.  <ol style="list-style-type: none"> Enter the value corresponding to half of the misalignment with a negative sign in [Length of Correction]. | -30 to 0 | -10 |
| Join Limit (mm) | <p>Coats by joining fill lines if a gap on the same fill line is within the specified size.</p> <ul style="list-style-type: none"> Example: Join limit = 20 mm  <p><Advantages></p> <ul style="list-style-type: none"> Throughput is increased when lines are joined, due to the reduction in acceleration/deceleration cycles. Coating quality is improved, due to the reduction in start/end points. <p><Disadvantages></p> <ul style="list-style-type: none"> Top coat consumption is increased. | 0 to 520 | 100 |

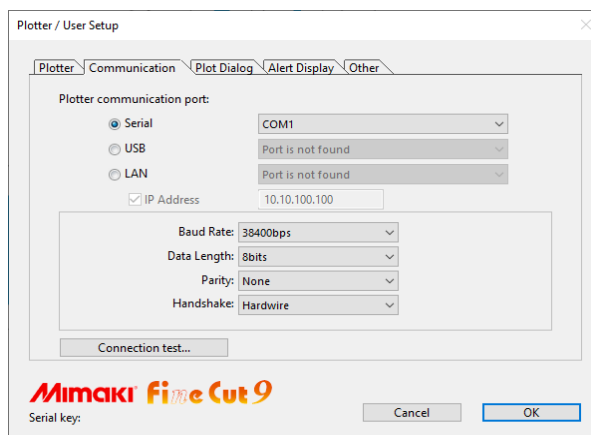
| Item | Description | Range | Default |
|-------------------------|--|-----------|---------|
| Fill Offset (mm) | Enter the offset from the original data when a fill line was created. <ul style="list-style-type: none"> • A value corresponding to 1/2 of the fill interval is recommended. • This value should be increased if unfilled areas remain. | -50 to 50 | 1.5 |

| [Test Plot...] | <p>Clicking the [Test Plot...] button displays the [Test plot] screen. Fill coating is performed using the selected output condition settings. This function allows the coating quality and coating misalignment to be checked.</p>  | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|------|-------------|--|-------------------|------|--|------|---|--------|--|--|------|--|--|-------|--|--|----------|---|--|------|--|
| | <table border="1"> <thead> <tr> <th>Item</th> <th colspan="2">Description</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Coating Operation</td> <td>Line</td> <td>Two lines are coated at the specified pitch. <ul style="list-style-type: none"> • Select this to check the coating width and misalignment. </td> </tr> <tr> <td>Fill</td> <td>An area of the specified size is coated. <ul style="list-style-type: none"> • Select this to check the coating quality. </td> </tr> <tr> <td>Origin</td> <td colspan="2"> <ul style="list-style-type: none"> • Specifies the coating origin position. </td> </tr> <tr> <td>Size</td> <td colspan="2"> <ul style="list-style-type: none"> • With [Line] selected in [Coating Operation]: Specifies the length of the lines to be coated. • With [Fill] selected in [Coating Operation]: Specifies the size of the rectangle to be filled. </td> </tr> <tr> <td>Pitch</td> <td colspan="2"> <ul style="list-style-type: none"> • With [Line] selected in [Coating Operation], specifies the separation between the two lines. </td> </tr> <tr> <td>[Cancel]</td> <td colspan="2"> <ul style="list-style-type: none"> • Closes the screen without performing a test plot. </td> </tr> <tr> <td>[OK]</td> <td colspan="2"> <ul style="list-style-type: none"> • Performs coating using the selected output conditions. </td> </tr> </tbody> </table> | | | Item | Description | | Coating Operation | Line | Two lines are coated at the specified pitch. <ul style="list-style-type: none"> • Select this to check the coating width and misalignment. | Fill | An area of the specified size is coated. <ul style="list-style-type: none"> • Select this to check the coating quality. | Origin | <ul style="list-style-type: none"> • Specifies the coating origin position. | | Size | <ul style="list-style-type: none"> • With [Line] selected in [Coating Operation]: Specifies the length of the lines to be coated. • With [Fill] selected in [Coating Operation]: Specifies the size of the rectangle to be filled. | | Pitch | <ul style="list-style-type: none"> • With [Line] selected in [Coating Operation], specifies the separation between the two lines. | | [Cancel] | <ul style="list-style-type: none"> • Closes the screen without performing a test plot. | | [OK] | <ul style="list-style-type: none"> • Performs coating using the selected output conditions. |
| Item | Description | | | | | | | | | | | | | | | | | | | | | | | | |
| Coating Operation | Line | Two lines are coated at the specified pitch. <ul style="list-style-type: none"> • Select this to check the coating width and misalignment. | | | | | | | | | | | | | | | | | | | | | | | |
| | Fill | An area of the specified size is coated. <ul style="list-style-type: none"> • Select this to check the coating quality. | | | | | | | | | | | | | | | | | | | | | | | |
| Origin | <ul style="list-style-type: none"> • Specifies the coating origin position. | | | | | | | | | | | | | | | | | | | | | | | | |
| Size | <ul style="list-style-type: none"> • With [Line] selected in [Coating Operation]: Specifies the length of the lines to be coated. • With [Fill] selected in [Coating Operation]: Specifies the size of the rectangle to be filled. | | | | | | | | | | | | | | | | | | | | | | | | |
| Pitch | <ul style="list-style-type: none"> • With [Line] selected in [Coating Operation], specifies the separation between the two lines. | | | | | | | | | | | | | | | | | | | | | | | | |
| [Cancel] | <ul style="list-style-type: none"> • Closes the screen without performing a test plot. | | | | | | | | | | | | | | | | | | | | | | | | |
| [OK] | <ul style="list-style-type: none"> • Performs coating using the selected output conditions. | | | | | | | | | | | | | | | | | | | | | | | | |

| [DB Management...] | <p>Clicking the [DB Management...] button displays the [DB Management] screen for registering and deleting database items.</p>  | | | | | | | | | | | |
|---------------------------|--|--|--|------|-------------|----------|--|------|------------------------------------|----------|-----------------------|----------|
| | <table border="1"> <thead> <tr> <th>Item</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DB Files</td> <td>Displays a list of the database files currently registered. <ul style="list-style-type: none"> • The header information for the database file selected is displayed at the bottom of the screen. </td> </tr> <tr> <td>[OK]</td> <td>Closes the [DB Management] screen.</td> </tr> <tr> <td>[Add...]</td> <td>Adds a database file.</td> </tr> <tr> <td>[Delete]</td> <td>Deletes a database file. <ul style="list-style-type: none"> • Deletes the selected database file from the database folder. • A deletion confirmation message will be displayed if the database file to be deleted is currently being used as the output conditions. </td> </tr> </tbody> </table> | | | Item | Description | DB Files | Displays a list of the database files currently registered. <ul style="list-style-type: none"> • The header information for the database file selected is displayed at the bottom of the screen. | [OK] | Closes the [DB Management] screen. | [Add...] | Adds a database file. | [Delete] |
| Item | Description | | | | | | | | | | | |
| DB Files | Displays a list of the database files currently registered. <ul style="list-style-type: none"> • The header information for the database file selected is displayed at the bottom of the screen. | | | | | | | | | | | |
| [OK] | Closes the [DB Management] screen. | | | | | | | | | | | |
| [Add...] | Adds a database file. | | | | | | | | | | | |
| [Delete] | Deletes a database file. <ul style="list-style-type: none"> • Deletes the selected database file from the database folder. • A deletion confirmation message will be displayed if the database file to be deleted is currently being used as the output conditions. | | | | | | | | | | | |

Communication

Set communication conditions for the plotter connected.



| Item | Description |
|-----------------------------------|--|
| Plotter communication port | <p>Select a port connected to the plotter.</p> <ul style="list-style-type: none"> • Models that can be connected via Serial: CG-EX, CG-FX, CG-FXII, CG-FXII Plus, CG-SRII, CG-SRIII, CG-AR, Other CG series, CF22-1225, CFL-605RT, CF, CF2, CF3, CFX, DC, TrotecSpeedy series <p>Connect the computer to the plotter and turn the power ON. Then select [Serial] on this screen, and set the [Baud Rate] and [Data Length], [Parity], [Hardwire].</p> <ul style="list-style-type: none"> • Models that can be connected via USB: CG-FX, CG-FXII, CG-FXII Plus, CG-75ML, CG-60SR, CG-SRII, CG-SRIII, CG-AR, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CF3 series <p>Connect the computer to the plotter and turn the power ON. Then select [USB] on this screen, and select the name of connected device.</p> <ul style="list-style-type: none"> • Models that can be connected via LAN: CG-SRIII, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CF22-1225, CFL-605RT, CFX series, DCF-605PU (digital coating machine) <p>Connect the PC and the plotter with the network via LAN cable. Turn ON the power supply of the plotter. If you cannot find the machine you want to connect in the list, turn the "IP address" check box on, and enter the machine's IP address. The connected machine is displayed in the [Machine name/ serial No.] format. If multiple machines are connected, you can identify them by the serial No. You can check the serial No. in [INFORMATION] of the plotter.</p> |
| Baud Rate | Select the transfer rate. (When [Serial] is selected on [Port]) |
| Data Length | Select the number of data bits. (When [Serial] is selected on [Port]) |
| Parity | Select the parity check method. (When [Serial] is selected on [Port]) |
| Handshake | Select the handshake method. (When [Serial] is selected on [Port]) |
| [Connection test...] | Test the connection to the plotter. |

Important!

• Note on Serial connection

- (1) Set [Handshake] to [Xon/Xoff] when using a serial connection to the CFX series. [Hardwire] is not supported.
- (2) When connecting serially with CG-SR III, CG-AR series, set [Baud Rate] at [38400bps].
If communicating by using speed other than [38400bps], cutting quality may be decreased.

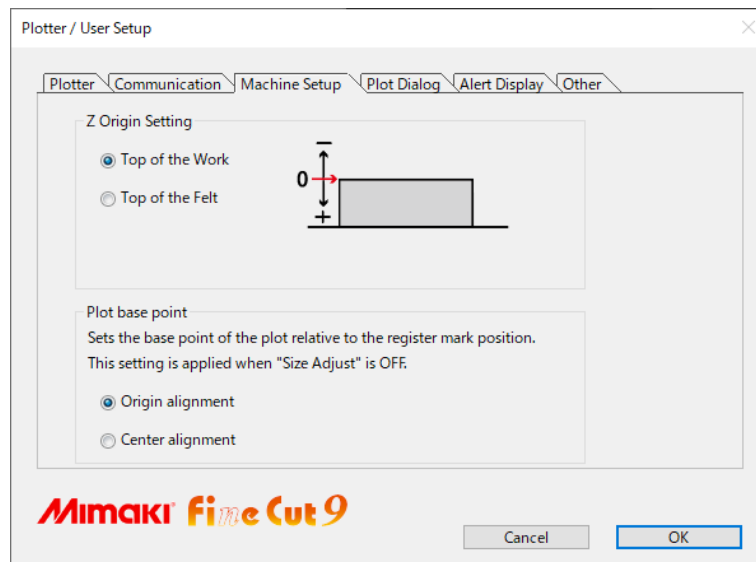
• Note on LAN connection

- (1) If the network address set in the machine differs from the IP address assigned to the PC, communication cannot be performed.
- (2) Even if you select LAN in the plotter communication port, if the connected machine is not displayed, recheck the firewall setting such as the router on the network and the security software of the PC.

Machine Setup

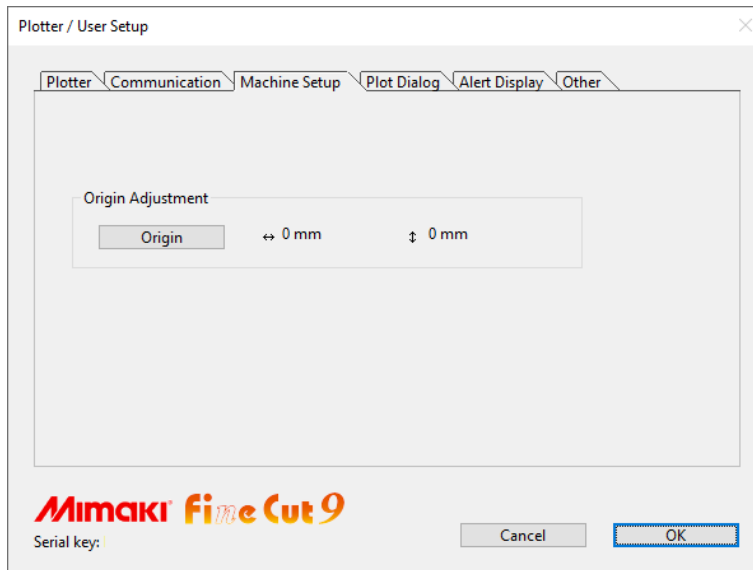
This is displayed when the CFX series, Trotec Speedy series, Gravotech LS series, or the DCF-605PU (digital coating machine) is selected.

When the CFX series or CFX (R10-head) series is selected



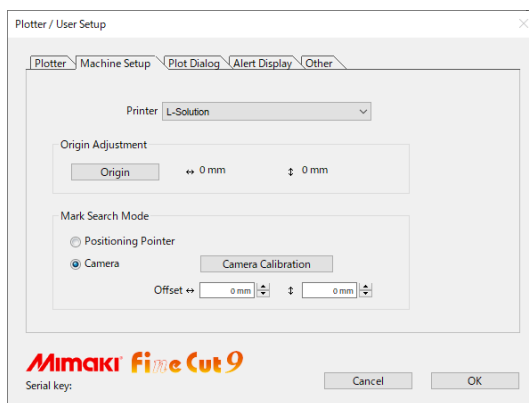
| Item | Description | Default |
|-------------------------|---|------------------|
| Top Of The Work | Sets the top of the work as the Z origin. The [Z Position] of the plot conditions is shown as positive. | Top Of The Felt |
| Top Of The Felt | Sets the top of the felt as the Z origin. The [Z position] of the plot conditions is shown as negative. | |
| Plot base point | When the drawing result expands or contracts, causing the positions of the register marks and the cut data to become misaligned, you can select the cut base point. (☞ P.6-17) Applies when [Size Adjust] is off (☞ P.7-41). | Origin alignment |
| Origin alignment | Aligns the drawing with the origin of the register marks (lower right) as the base point. | |
| Center alignment | Aligns the drawing with the center of the area surrounded by register marks as the base point. | |

Trotec Speedy series is selected



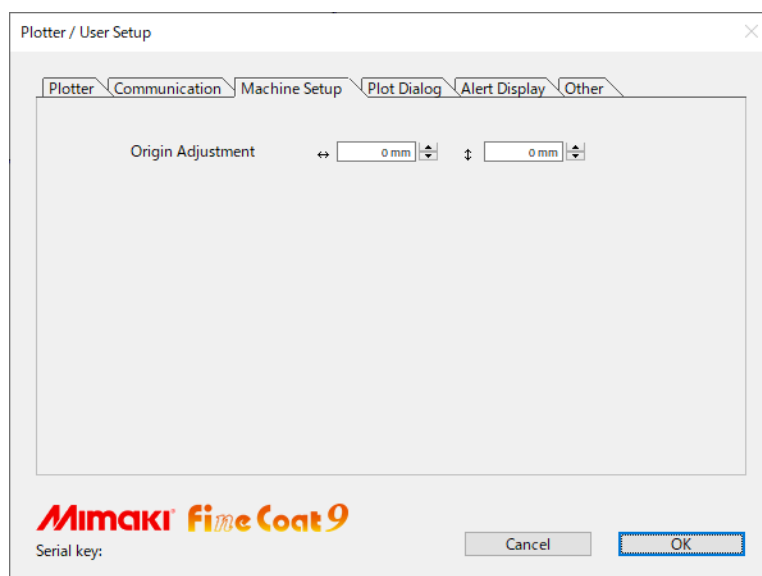
| Item | Description | Default |
|----------|--|---------|
| [Origin] | Load and display the current origin from laser engraving machines in the Trotec Speedy series. | 0, 0 |

Gravotech LS series is selected



| Item | Description | Default |
|-----------------------------|--|---------|
| Printer | Select the printer driver (L-Solution) for the laser engraving machines in the Gravotech LS series. | - |
| [Origin] | Load and display the current origin from laser engraving machines in the Gravotech LS series. | 0, 0 |
| Positioning Pointer | Use the RED pointer to detect register marks manually. | - |
| Camera | The register marks are detected automatically using the camera. | - |
| [Calibration Camera] | The calibration grid printed by the laser is read and the camera and laser positions are automatically adjusted. | - |
| Offset | This is valid when the register mark detection mode is [Camera]. Enter the adjustment value when the laser cutting position is misaligned. | 0.0 |

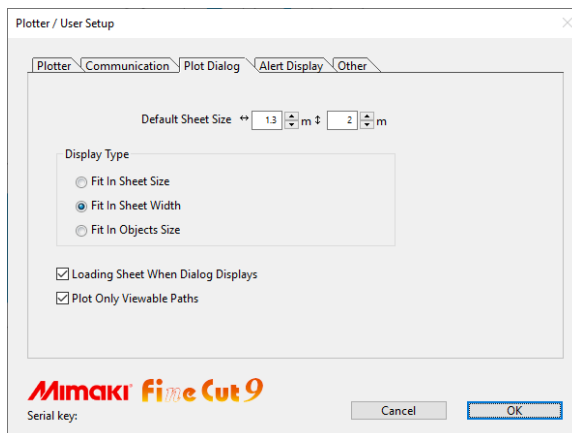
DCF-605PU (Digital coating machine) is selected



| Item | Description | Range | Default |
|--------------------------|---|--------------------|---------|
| Origin Adjustment | Adjust by entering an offset value if the origin point for the coating is offset from the printing position. • If using a square jig, enter 10 mm × 10 mm. | -20.0mm to +20.0mm | 0, 0 |

Plot Dialog

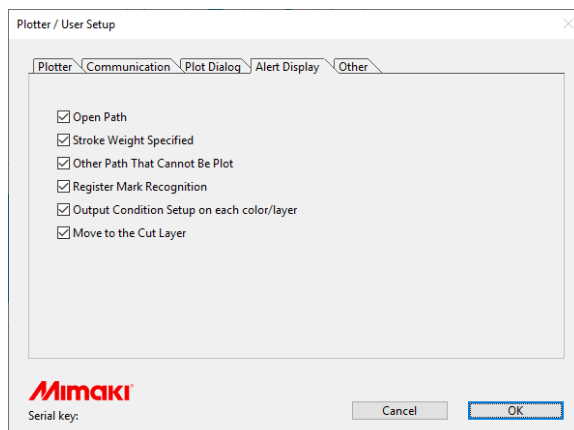
Set the display of Plot screen and Output to RasterLink screen.



| Item | Description | Default |
|---|--|--------------------|
| Default Sheet Size | When the sheet is not loaded properly, or [Loading Sheet When Dialog Displays] is unchecked, the preview screen is displayed with the size set here. | 1.3m x 2m |
| Display Type | Select the display type of Plot screen or [Output to RasterLink] screen. | Fit In Sheet Width |
| Loading Sheet When Screen Displays | The sheet size is automatically loaded and previewed on [Plot] screen. | checked |
| Plot Only Viewable Paths | Plots only the displayed paths. Undisplayed paths are not plotted. | checked |

Alert Display

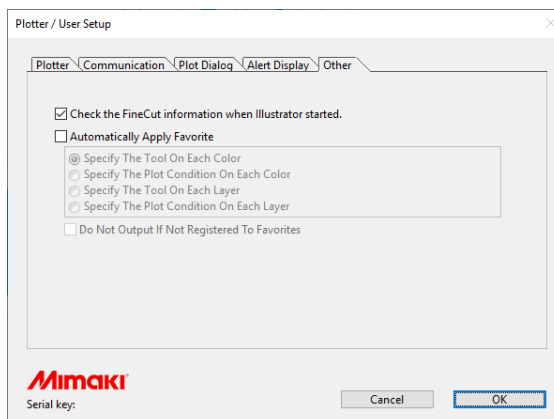
Select the state to display warnings from the following options.



| Item | Description | Default |
|---|--|---------|
| Open Path | The path is not closed. (The start and the end points are not set to the same point.) | checked |
| Stroke Weight Specified | There is a path that the stroke weight is specified. | checked |
| Other Path That Cannot Be Plot | The object may be drawn with the Gradient Mesh tool of Illustrator, or the object is a raster image. | checked |
| Register Mark Recognition | Two-points are corrected at the time of register mark recognition. (CG-EX only) | checked |
| Output Condition Setup on each color/layer | The output conditions are set on each color or layer. | checked |
| Move to the Cut Layer | When executing [Move to the Cut Layer], the confirmation screen is displayed. (☞ P.4-15) | checked |

Other

Select whether or not to display “Online information” when Illustrator is started.

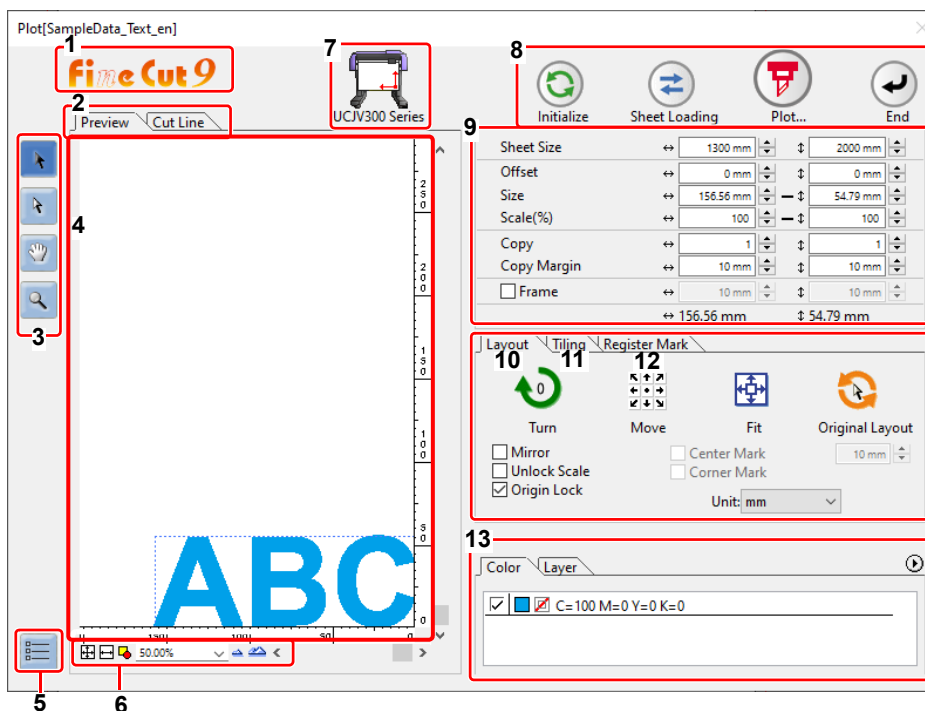


| Item | Description | Default |
|---|---|-----------|
| Check the FineCut/Coat information when Illustrator started. | FineCut/Coat information is obtained when starting Illustrator, and if there is a new / unchecked information, the online information is displayed. | checked |
| Automatically Apply Favorite | <p>You can automatically apply a “Favorite” registered by color or layer when cutting.</p> <p>For automatic application, set [Automatically Apply Favorite] to “ON” and select the favorite to apply.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Important!</p> <ul style="list-style-type: none"> • Contents selected by favorite are disabled if you select “PANEL” for the output conditions setting on a connected plotter. • Perform the following to cut if there is a color or layer in the cut data that has not been registered in as a favorite. <p>Tool used : No. 1 is used.</p> <p>Output conditions setting : The condition at the top of the list of the [Media Name:] field of the output conditions settings screen (P.7-5) is applied.</p> </div> | unchecked |
| Do Not Output If Not Registered To Favorites | You can set when [Automatically Apply Favorite] is set to “ON”. Cutting is not performed for an unregistered color or layer if there is no color or layer set as a favorite in the cut data. | unchecked |

[Plot] Screen

Set for plotting.

To display this screen, click  ([Plot] button) in the FineCut/Coat menu.



1 FineCut/Coat

If "DCF-605PU (Digital coating machine)" is selected, [FineCoat] is displayed, and if anything else is selected, [FineCut] is displayed.





2 Screen Display Mode

Click the tab to switch the display mode.

| Item | Description |
|----------|--|
| Preview | Displays an object with colors. |
| Cut Line | Displays an object with paths (outline). It is effective to confirm a white object or a cutting-line. |

3 Tool Box

Move or enlarge/reduce the object.

| Button | Item | Description |
|---|------------------------|--|
|  | Select Tool | Move a whole object displayed. Or move the division line of tiling. |
|  | Direct Select Tool | Select and move the part of an object. Moving the object to a blank position of the sheet, you can use the sheet without waste. (☞ P.5-16) |
|  | Move Preview Area Tool | Change the object display area. |
|  | Zoom Tool | Enlarge or reduce the layout area. Click on the cutting area (white area) to enlarge the view. To reduce the view, click on the layout area as pressing down the [Alt] key (Windows) or [Option] key (Macintosh). |

4 Layout Area

The white area is the effective cutting area loaded from the sheet.

It displays the sheet width along the horizontal axis and the sheet length along the vertical axis.




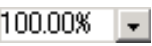

When the object is larger than the cutting area, the  mark appears to the left of  Plot button. Click  mark to display the contents of the error.

5 Communication setting

Displays the communication setting. ( P.7-27)

6 Zoom Size








Change the zoom size displayed on the layout area.

| Button | Item | Description |
|---|---------------------|---|
|  | Fit In Sheet Size | Displays the entire sheet. |
|  | Fit In Sheet Width | Enlarges the sheet width to full screen. |
|  | Fit In Objects Size | Enlarges the entire object to full screen. |
|  | % | Change the display size by selecting or entering number. (0.2 to 6400 %) |
|  | zoom out / zoom in | Zooms in and out the preview. |

7 Plotter Name

Displays the plotter name being selected and its cutting direction.


8 Execution Button

| Button | Item | Description |
|---|--|---|
|  | Initialize | Initializes the layout of the changed object. |
|  | Sheet Loading (except Trotec Speedy series) | Loads the sheet size set on the plotter. When  mark appears on the left of this button, the sheet size of the plotter cannot be loaded. Set the plotter to the REMOTE mode and click this button. • When using the base sheet table and cutting base sheet with the CG-AR series, [Sheet Loading] reads in the cutting base sheet size. Be sure to set the origin for the sheet on the CG-AR series before using [Sheet Loading]. Check to confirm that the cut data fits within the sheet size before starting plotting. |
|  | Plot | Displays Plot Out screen. ( P.7-46) When  mark appears on the left of this button, the object is larger than the cutting area. Move the object or change the size of the object to fit into the cutting area. |
|  | End | Closes the Plot screen. |

9 Size input area

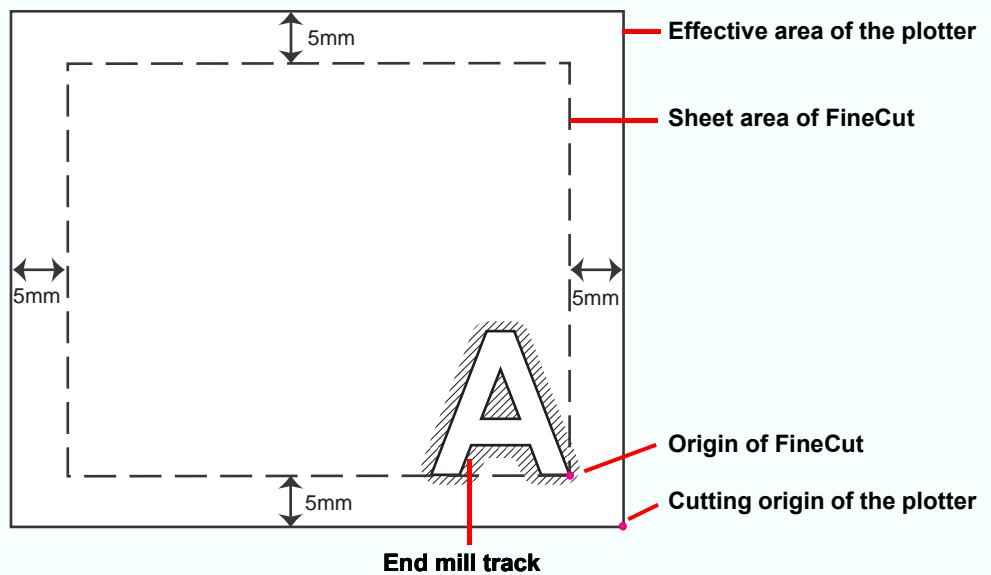
| | | | | |
|---|---|-----------|---|----------|
| Sheet Size | ↔ | 1300 mm | ↕ | 2000 mm |
| Offset | ↔ | 0 mm | ↕ | 0 mm |
| Size | ↔ | 156.56 mm | ↕ | 54.79 mm |
| Scale(%) | ↔ | 100 | ↕ | 100 |
| Copy | ↔ | 1 | ↕ | 1 |
| Copy Margin | ↔ | 10 mm | ↕ | 10 mm |
| <input checked="" type="checkbox"/> Frame | ↔ | 5 mm | ↕ | 5 mm |
| | ↔ | 166.56 mm | ↕ | 64.79 mm |

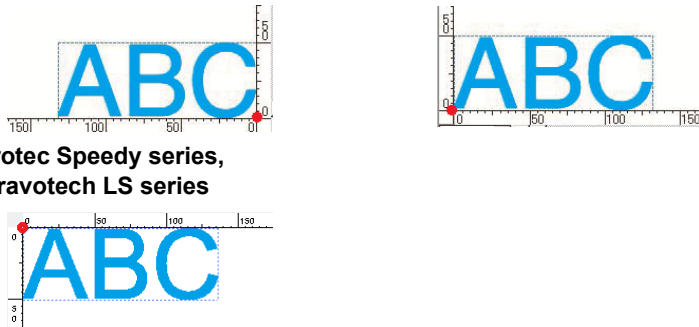
Total Length

| Item | Description | Default |
|------------|--|---------|
| Sheet Size | Click  (Sheet Loading button) to display the loaded sheet size (width and length). Alternatively, enter the sheet size (width and length of the cutting area). | -- |

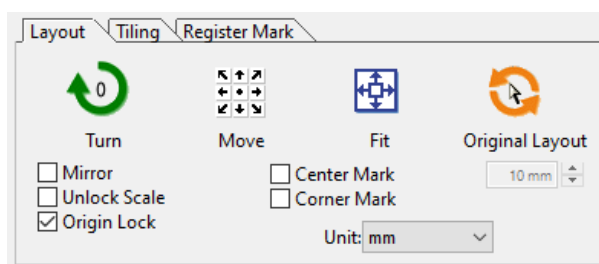
Important!

- When [CF3 Series (M-Head)] or [CFX Series (R10-Head)] is selected for [Model] on the [Plotter/ User Setup] screen (P.7-4), FineCut considers the diameter of the end mill for milling, and lays out and cuts 5 mm in both length and width from the plotter's cutting origin. Therefore, the width and length displayed on [Sheet Size] are 10 mm smaller than the plotter setting.



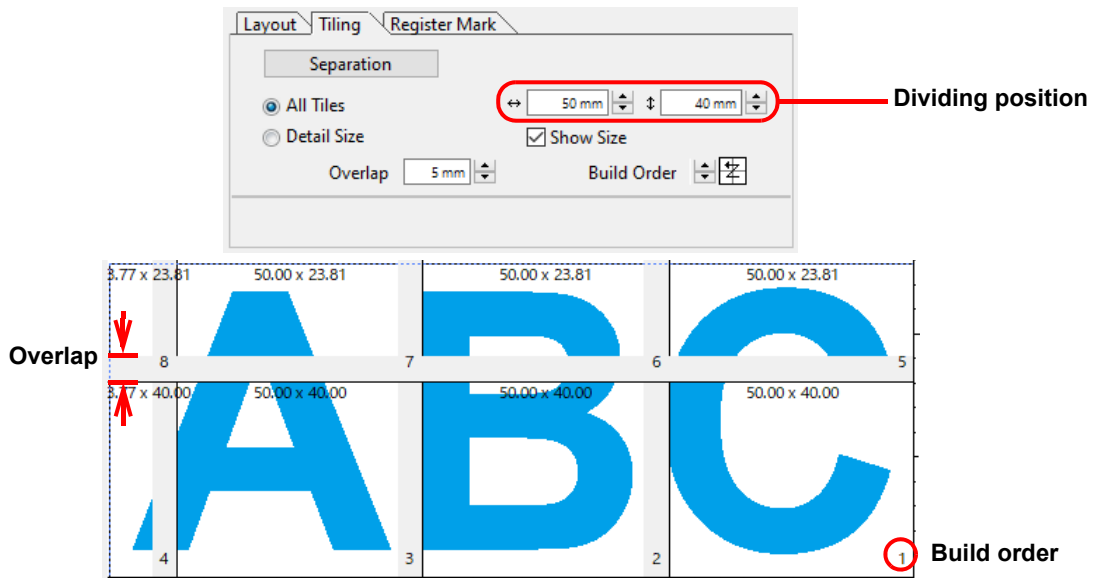
| Item | Description | Default |
|--|---|-----------|
| Offset | <p>Sets the origin position. The origin reference position varies by model.</p> <ul style="list-style-type: none"> • Bottom right: CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330, CF3, CFX series • Bottom left: CF, CF2, DC series, CFL-605RT, CF22-1225, DCF-605PU (Digital coating machine) • Top left: Trotec Speedy series, Gravotech LS series <p>The default origin is at 0 mm (both vertically and horizontally) of the layout area.</p> <p>CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330, CF3, CFX series CF, CF2, DC series, CFL-605RT, CF22-1225, DCF-605PU (Digital coating machine)</p>  <p>Trotec Speedy series, Gravotech LS series</p> | 0 |
| Size | <p>Sets the vertical and horizontal lengths of an object. When the “ - ” mark is shown between [vertical] and [horizontal] length column, the aspect ratio is retained after changing either length. To change the vertical and horizontal lengths separately, check the [Unlock Scale] on the [Layout] screen below.</p> | -- |
| Scale (🔗 P.5-2) | <p>Sets the magnification of the vertical and horizontal lengths. When the “ - ” mark is shown between [vertical] and [horizontal] column, the aspect ratio is retained after changing either value. To change the vertical and horizontal magnification separately, check the [Unlock Scale].</p> | -- |
| Copy (🔗 P.5-4) | Enter the number of copies along the vertical and horizontal directions. | 1 |
| Copy Margin (🔗 P.5-4) | Set the margin between objects along the vertical and horizontal directions. | 10mm |
| Frame (except Trotec Speedy series, DCF-605PU (Digital coating machine)) | <p>Makes and cuts a frame around the target object. In addition, set the distance between the object and the frame. It enables to peel an unnecessary part of the sticker easily.</p> <ul style="list-style-type: none"> • With the center mark and the corner mark (🔗 P.5-7), you can easily align and affix a cut sticker. | unchecked |
| Total Length | <p>Displays the width and the height of an object. When multiple numbers are entered on [Copy], it displays with the length of all copies. If margin or frame is set, those lengths are also included.</p> | -- |



10 Layout



| Button | Item | Description | Default |
|---|------------------------|---|-----------|
| | Turn | Rotates the object clockwise in unit of 90 degrees. Degrees (0, 90, 180, 270) are displayed in the arrow mark. | 0 |
| | Move | Click the desired direction of arrow to move the object. | -- |
| | Fit | Fits the object to the sheet size. | -- |
| | Original Layout | Resets to the original layout that is changed by (Direct Select Tool). | -- |
| Mirror | | Reverses the right and left of the object image and cuts it. | unchecked |
| | | | |
| Unlock Scale (P.5-2) | | Changes the aspect ratio of the object when changing the size. | unchecked |
| Origin Lock (P.5-8) | | Fixes the object position on the object created place. If unlocked, the object is cut on the bottom right or the bottom left of the sheet. When cutting specified color or layer only, you can use sheet without waste. The origin reference position varies by model. <ul style="list-style-type: none"> • Bottom right: CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV200, UCJV300/150, CF3, CFX series • Bottom left: CF, CF2, DC series, CFL-605RT, CF22-1225, DCF-605PU (Digital coating machine) • Top left: Trotec Speedy series, Gravotech LS series | unchecked |
| Center Mark (P.5-7) (except Trotec Speedy series, DCF-605PU (Digital coating machine)) | | When setting [Frame] on the size input area, put marks in the center of the frame in every direction. You can affix a cut sticker on the desired position with the marks. | unchecked |
| Corner Mark (P.5-7) (except Trotec Speedy series, DCF-605PU (Digital coating machine)) | | When setting [Frame] on the size input area, put marks on all corners of the frame. You can affix a cut sticker in a horizontal position with the marks. | unchecked |
| Unit | | Set the display unit in this screen. | mm |

11 Tiling (☞ P.5-5)



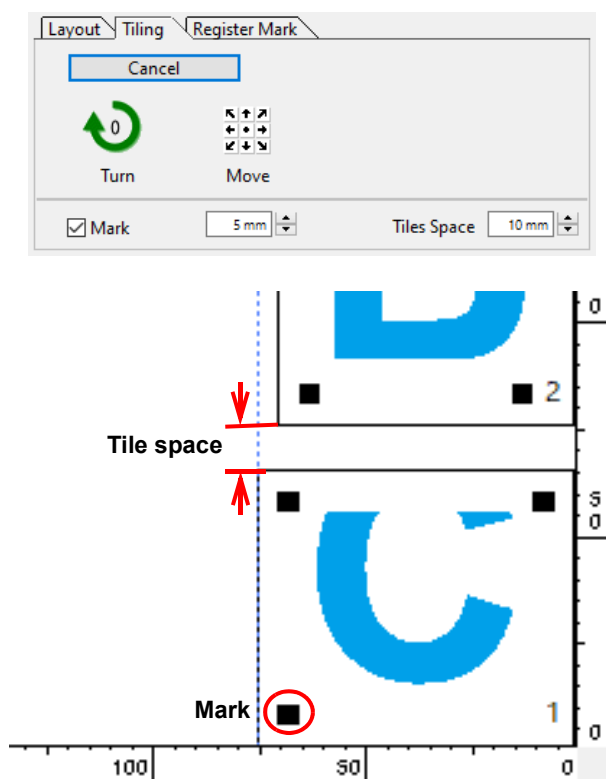
| Item | Description | Default |
|--------------------------|--|---|
| [Separation] | After setting the following items, click this button to separate the blocks. | -- |
| All Tiles | Divides an object into the same size. | -- |
| Dividing position | Set the dividing position. | -- |
| Detail Size | Divides on the desired position. Move the division line using  (Select Tool). | -- |
| Overlap | Sets the overlapping margin of the divided objects. | 10 |
| Show Size | Displays each size of divided objects. | unchecked |
| Build Order | Select an order to paste the cut objects together. |  |

Important!

- When using the tiling function with the CFL-605RT or CF22-1225, you cannot use ID cut.
- You cannot output multiple tiles at once when the Gravotech LS series is selected. Output one tile at a time.
- When “DCF-605PU(Digital coating machine)” is selected, this function cannot be used.

● Layout of divided tiles

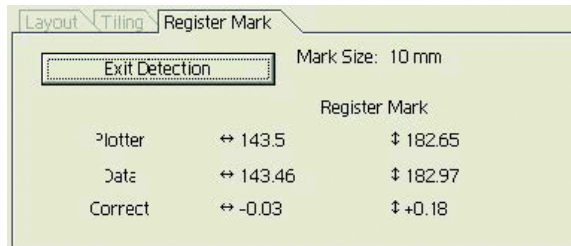
Click [Separation] to display the setting screen as below.



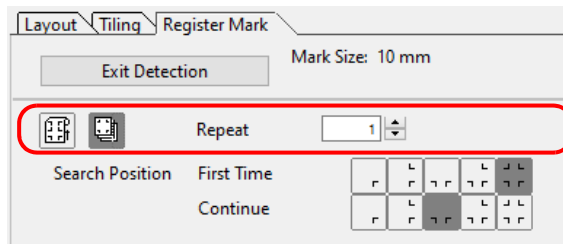
| Button | Item | Description | Default |
|-------------------------------------|---|---|-----------------|
| [Cancel] | | Cancels the division. | -- |
| | Turn | Rotates the object clockwise in unit of 90 degrees. Degrees (0, 90, 180, 270) are displayed in the arrow mark. | 0 |
| | Move | Click the desired direction of arrow to move the divided objects within the sheet. | -- |
| <input checked="" type="checkbox"/> | Mark (except CF3 (M-Head) / CFX (R10-Head)) | Marks the divided objects. Select or input the mark size on the size column. Paste the divided objects together on the marks. | checked 20mm |
| | Tiles Space | Sets the space between divided objects when cutting continuously. | 10mm |

12 Register Mark

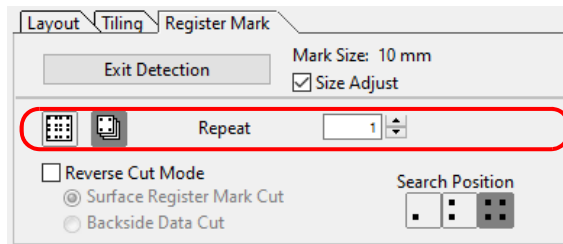
● CG-EX series



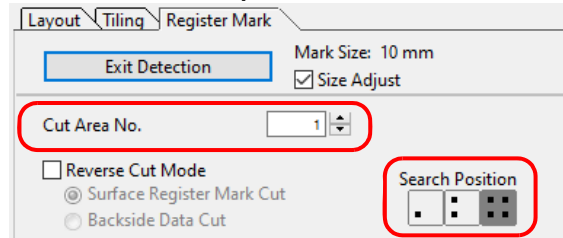
● CG-FX / FXII / FXII Plus / 75ML / 60SR / SRII / SRIII / AR, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series



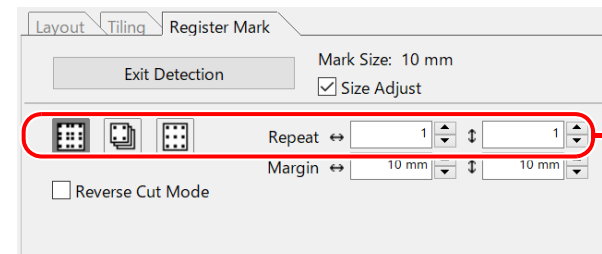
● CF2, DC, CF3, CFX (except free register mark) series



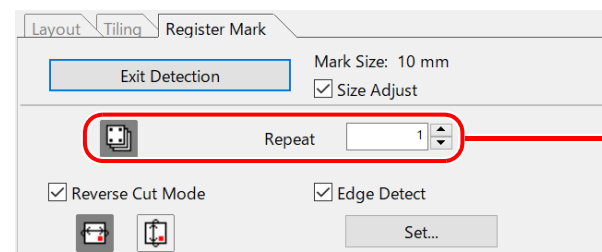
When the mark is separated



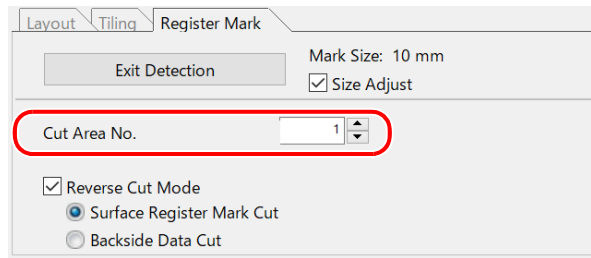
● CFX series (excluding free register marks)



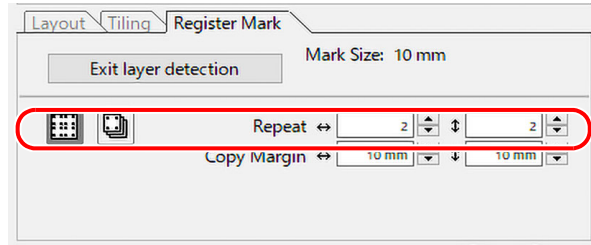
When using reverse cut mode



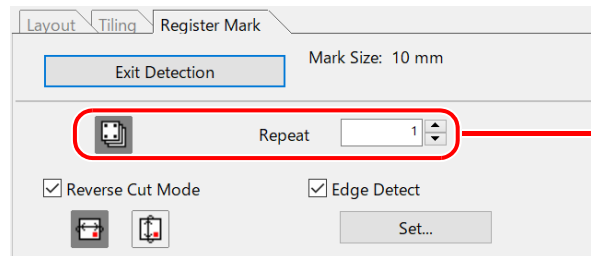
When the mark is separated



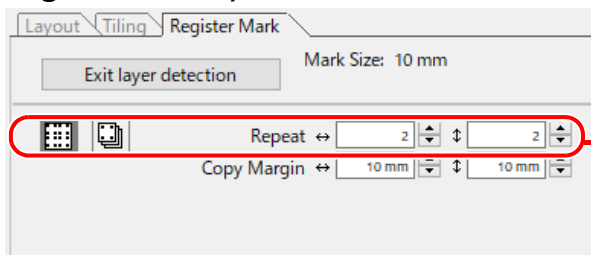
● CFX series (free register marks)



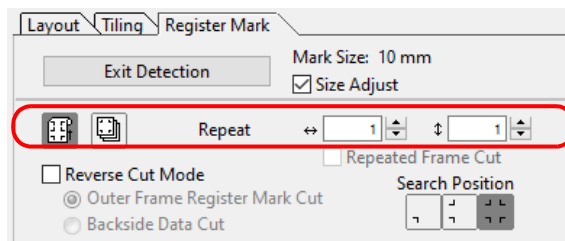
When using reverse cut mode



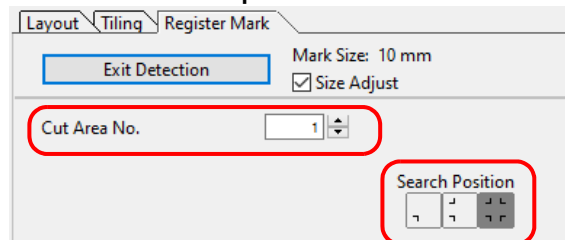
● CFX series (round register marks)



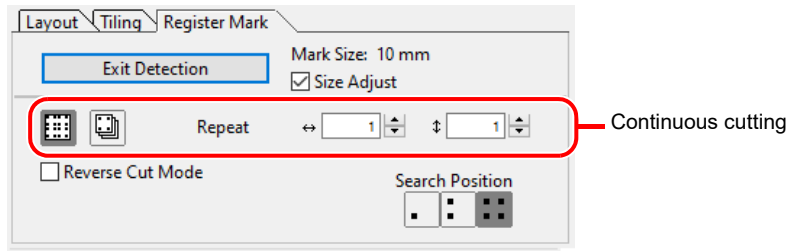
● CFL-605RT



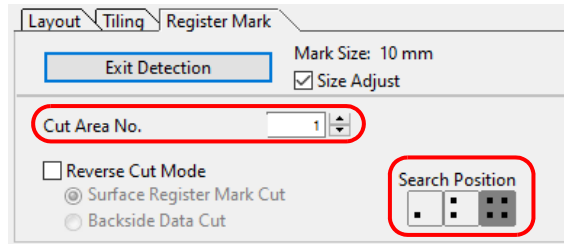
When the mark is separated



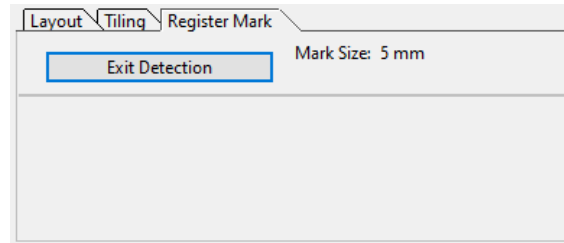
● CF22-1225



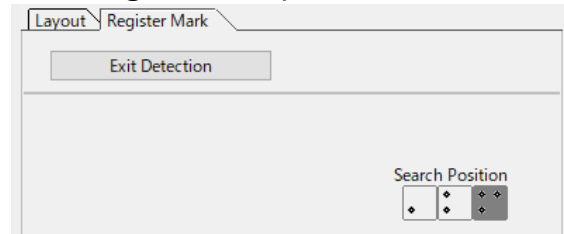
When the mark is separated



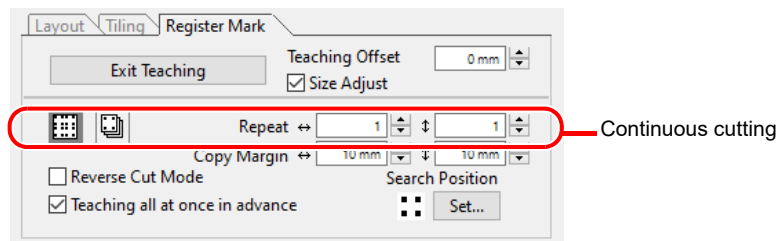
● Trotec Speedy Series, Gravotech LS series



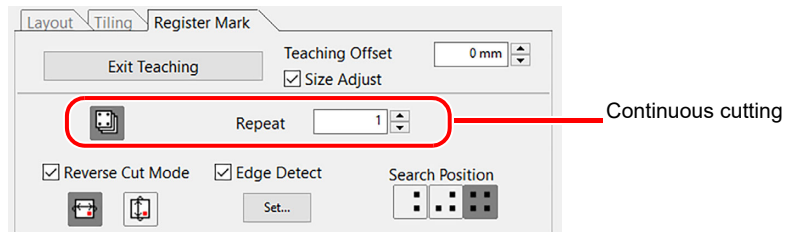
● DCF-605PU (Digital coating machine)



● CFX Series (teaching)




When using reverse cut mode

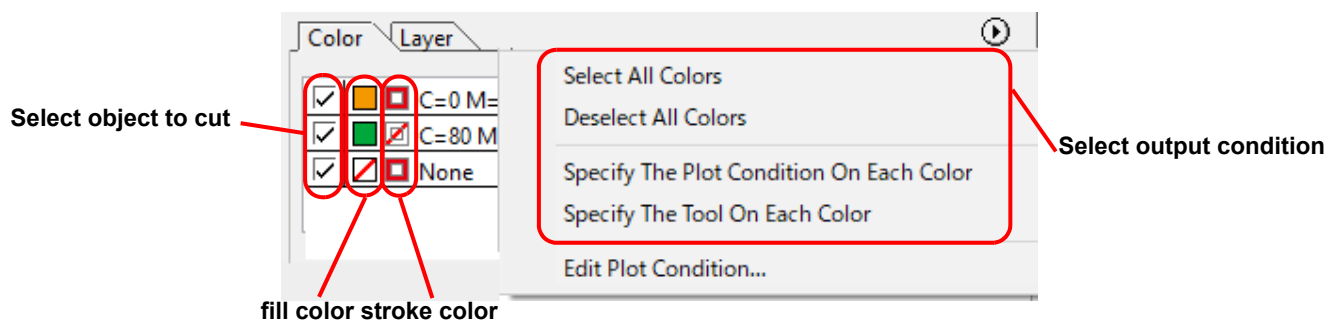


| Item | Description | Default |
|--|---|------------------------|
| [Detect Mark]/[Exit Detection] button | Corrects the angle and the size of the detected register mark. Click [Exit Detection] to cancel the detection. | -- |
| Setting of continuous cutting (except Trotec Speedy Series and Gravotech LS series, DCF-605PU (Digital coating machine)) | Select the roll mode (multi-mode) or the leaf mode (single mode), and set the number of continuous cutting. | Roll Mode (Multi Mode) |
| Margin (CFX series (free register marks)) | Sets the margins for register mark sets when multi mode is selected. Range: ± data size | |
| Search Position (except Trotec Speedy Series and Gravotech LS series) | Select the search position of the register mark. For CG, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series or TPC, select the first detecting position on upper boxes, and select the second or subsequent detecting position on lower boxes. | First Time Continue |
| ID Certification Mode (CG-75ML) | Check this when cutting with ID certification mode by CG-75ML. | unchecked |
| Size Adjust (except Trotec Speedy Series and Gravotech LS series, DCF-605PU (Digital coating machine)) | When the size of the actual data and the printed media are different due to the media type or printing environment, the frame can be cut aligning with the printed media. • When cutting fixed-shape items like paper packs, uncheck [Size Adjust]. If checked, the size may be misaligned. • For the CFX series, when this is off, the drawing is aligned by using the setting for [Plot base point] (P.7-28). | checked |
| Reverse Cut Mode (CF2, DC, CF3, CFX series, CFL-605RT, CF22-1225) | Cuts from the back, not from the printed face. (CF2, DC, CF3, CFX series: P.3-42, CFL-605RT: P.3-50, CF22-1225: P.3-65) For the CFX series, edge detection can greatly simplify the process. P.5-49 | unchecked |
| When the mark is separated (CF2, DC, CF3, CFX (excluding free register marks) series, CFL-605RT, CF22-1225) | Select the cut area No. and the search position of the mark to cut. (CF2, DC, CF3, CFX series: P.3-40, CFL-605RT: P.3-48, CF22-1225: P.3-63) | -- |

13 Color / Layer

Select [Color] or [Layer] tab to display the information of colors or layers.
When tiling is executed, the tile list is displayed.

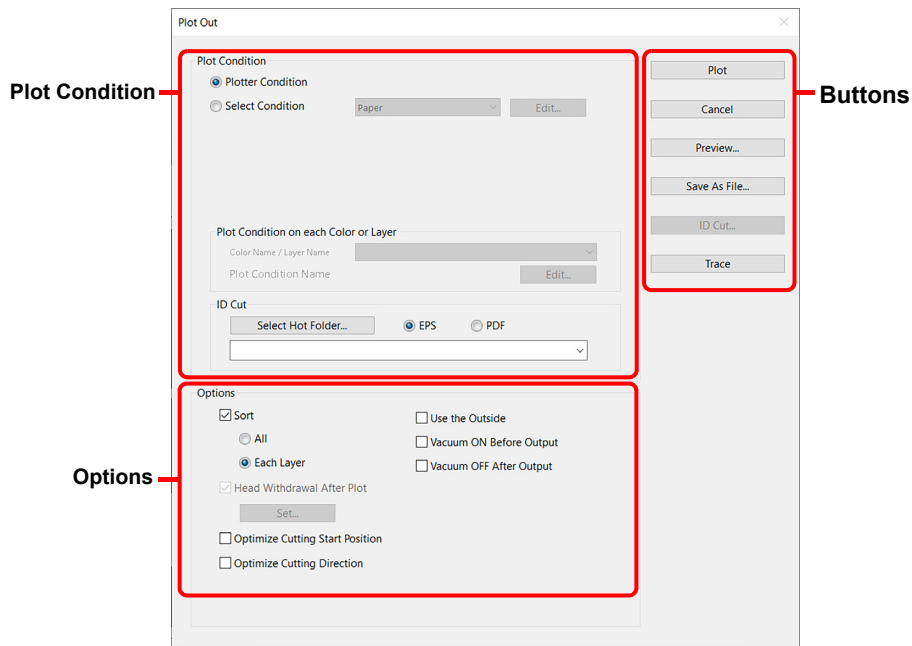
- Only the objects that are checked at the check box on the left are cut.
- Objects are cut in order of the list from the bottom to the top.
Drag and move each line to change the cutting order.
- In the color list, click the fill color or stroke color to display each information.
- Click the  button on the upper right to specify the output condition. (Except Gravotech LS series, DCF-605PU (Digital coating machine))



[Plot Out] Screen

Set for output.

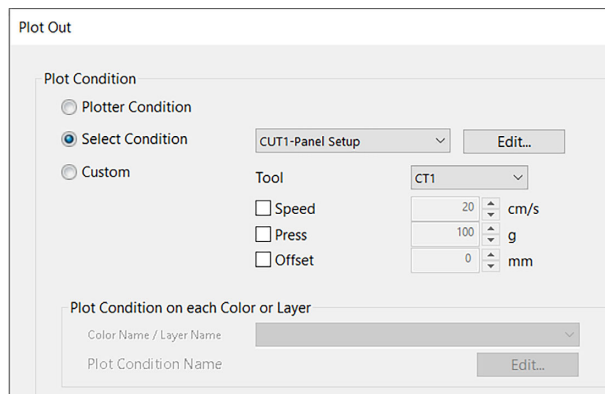
To display this screen, click  (Plot button) in the Plot screen.



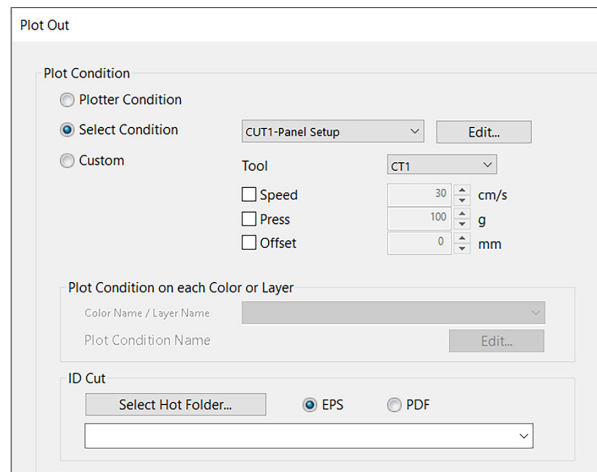
Plot Condition

Select the output condition. Settings differ from the selected model. ( P.7-4 "[Plotter/User Setup] Screen")

- **CG (Except CG-FXII Plus, CG-AR series), CJV30, TPC, CJV300/150, CF, CF2, DC, CF3 series**



- **CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CF22-1225**



● Trotec Speedy series

Plot Condition

Select Condition Acrylic(casted)_3.0mm Edit...

Custom

Speed 0.6 %

Power 100 %

Pulse Frequency 5000 Hz

Plot Condition on each Color or Layer

Color Name / Layer Name [Dropdown]

Plot Condition Name Edit...

● Gravotech LS series

Plot Condition

Select Condition Acrylic_3mm_25W Edit...

Custom

Speed 5 %

Power 100 %

Resolution (DPI) 500

● DCF-605PU (Digital coating machine)

Plot Condition

Constant speed Edit...

● CFX (excluding the R10-head)

Plot Out

Plot Condition

Plotter Condition

Select Condition Paper Edit...

Plot Condition on each Color or Layer

Color Name / Layer [Dropdown]

Plot Condition Name Edit...

ID Cut


Select Hot Folder... EPS PDF

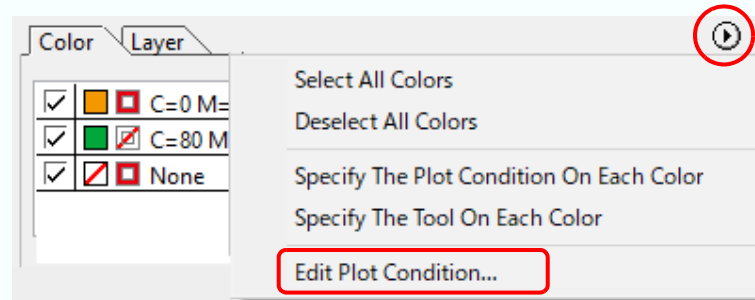
[Dropdown]

● CFX (R10-head)

| Item | Description |
|--|---|
| Plotter Condition (Default) (Excluding the CF3 (M-head), CFX series (R10-head), Trotec Speedy series, Gravotech LS series, and DCF-605PU (digital coating machine)) | Plots with the output condition set on the plotter. <ul style="list-style-type: none"> This function is not available when using the CF3 (M-head), CFX series (R10-head), Trotec Speedy series, or the Gravotech LS series. |
| Select Condition | Select the plot condition set on FineCut/Coat. Click [Edit] button to add media, or to set cutting conditions by media types. (☞ P.7-5) |
| Custom (Excluding the CF3 (M-head), CFX series, and the DCF-605PU (digital coating machine)) | Set plot condition on this screen. (☞ P.7-5) |
| Color Name / Layer Name | If you have set output conditions by color/layer on the Plot screen, you can check the output conditions here. (☞ P.5-14) |
| Plot Condition Name | Click [Edit] to set cutting conditions by media types. (☞ P.7-5) <ul style="list-style-type: none"> You cannot [Edit] or [Delete] media names on this screen. |
| ID Cut [Select Hot Folder...] (Only when the CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CF22-1225, or CFX series is selected) | Select the hot folder of RasterLink to send ID data and print data. (☞ P.5-19) The hot folder name selected before can also be selected from the list. If hot folder does not exist, create it on RasterLink. <ul style="list-style-type: none"> The folder created from the [New folder] button of the folder reference screen does not work as a hot folder. Create a hot folder from RasterLink. |
| [EPS]/[PDF] (Only when the CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CFX series, or CF22-1225 is selected) | Print data format: Select [EPS] or [PDF]. |

Important!

- In the case of specifying output conditions or tools on each color or layer, the conditions cannot be edited on this screen. Instead, click  button on the right of Color / Layer tab in Plot screen and select [Edit Plot Condition...]. (Except Gravotech LS series, DCF-605PU (Digital coating machine))



Options

Set options. Settings differ from the selected model. (☞ P.7-4 "[Plotter/User Setup] Screen")

● CG (Except CG-AR series), CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series

Options

- Sort
- Sheet Feed
- All
- Each Layer
- Change the Cutting Start Position
- Auto Cut
- Head Withdrawal After Plot

● CG-AR series

Options

- Sort
- Sheet Feed
- All
- Each Layer
- Change the Cutting Start Position
- X direction division cut
- Head Withdrawal After Plot
- Double pass creasing (CRE)

● CF, CF2, DC, CF3/CFX (except M Head) series, CFL-605RT, CF22-1225

Options

- Sort
- Use the Outside
- All
- Each Layer
- Change the Cutting Start Position
- Head Withdrawal After Plot
- Optimize Cutting Start Position
- Optimize Cutting Direction

● CF3 (M-head) series

Options

- Sort
- Use the Outside
- All
- Each Layer
- Change the Cutting Start Position
- Head Withdrawal After Plot
- Optimize Cutting Start Position
- Adjust start / end
- Joint Setting
 - Joint: 1 pcs
 - Length: 3 mm
 - Height: 1 mm
- Pause

● CFX (excluding the R10-head) series

Options



- Sort
- Use the Outside
- All
- Each Layer
- Change the Cutting Start Position
- Vacuum ON Before Output
- Vacuum OFF After Output
- Head Withdrawal After Plot
- Flute Direction
- Optimize Cutting Start Position
- Optimize Cutting Direction
- Check the cutting range
- 4 pts : Output range vertices
- Edge Detect

● CFX (R10-head)

● Trotec Speedy series, Gravotech LS series

● DCF-605PU (Digital coating machine)

| Item | Description | Default |
|---|---|---------|
| Sort (Except DCF-605PU (Digital coating machine)) | Optimizes cutting order of an object automatically. If unchecked, the object is cut from the bottom of the list of the color / layer / Tile. <ul style="list-style-type: none"> CG, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series Sorts to minimize the extra head movement for efficient cutting. CF, CF2, DC, CF3, CFX series, CFL-605RT, CF22-1225 Sorts to minimize the extra head movement, and to cut the inside objects first. | checked |
| All | Optimizes cutting order of all the objects. | checked |
| Each Color/ Layer/Tile | Optimizes cutting order by each color / layer / tile. | -- |
| Change the Cutting Start Position | Automatically changes the cutting start position to the shortest distance. <ul style="list-style-type: none"> When the [Change the Cutting Start Position] checkbox is selected, the following functions are disabled. <ul style="list-style-type: none"> Optimize Cutting Start Position Optimize Cutting Direction | OFF |
| Head Withdrawal After Plot (Except Trotec Speedy series, Gravotech LS series, DCF-605PU(Digital coating machine)) | Moves the head to the set position after cutting object. (☞ P.5-27 "Setting Head Position after Plotting") This function is not available in the following cases: <ul style="list-style-type: none"> When [Auto Cut] is checked. When [X Direction Division Cut] is checked with the CG-AR series. | checked |
| Sheet Feed (MGL-IIc for CG series only) | Before cutting data, feeds the sheet and confirms whether the entire data can be cut. <ul style="list-style-type: none"> If plotting fails, an error appears on the plotter. In this case, stop plotting, reset the sheet, then restart plotting. | checked |

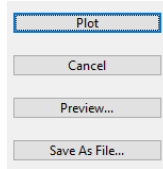
| Item | Description | Default |
|---|--|-----------|
| Auto Cut (CG-FX/FXII/FXII Plus/75ML, CJV30, TPC, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series only) | When cutting a roll sheet continuously, the sheet is separated automatically after cutting. (☞ P.3-30) | unchecked |
| Double Pass Creasing (CRE) (CG-AR series) | Creasing tool (CRE) data is output twice. Check this option when it is difficult to form a crease with a single output. (☞ P.5-35) | unchecked |
| X Direction Division Cut (CG-AR series) | Performs division cutting in the feed (X) direction, minimizing cutting offset due to sheet meandering. (☞ P.5-33) | unchecked |
| Optimize Cutting Start Position (Only when the CF, CF2, DC, CF3, CFX series, CF22-1225, or CFL-605RT is selected) | Optimizes the start position of cutting to finish finely. If unchecked, cutting starts from the position that the data started to draw, or the start position set on the setting tool (☞ P.6-4). <ul style="list-style-type: none"> If this is checked, please note that the cutting start position set on the setting tool becomes invalid. | unchecked |
| Optimize Cutting Direction (Only when the CF, CF2, DC, CF3, CFX series, CF22-1225, or CFL-605RT is selected) | All cut directions are counterclockwise when cutting by using closed path data. (☞ P.6-6) | checked |
| Check the cutting range (CFX series only) | Checks that the cut data fits on the media before beginning cutting. | checked |
| 2 pts : Origin and diagonal | Checks in the points indicated below.  | checked |
| 4 pts : Output range vertices | Checks in the points indicated below.  | -- |
| Use the Outside (Only when the CF, CF2, DC, CF3, CFX series, CF22-1225, or CFL-605RT is selected) | Cuts out inside of the object to use the outside. If checked, offset direction is optimized. | unchecked |
| Edge Detect (CFX series only) | Detects the edge of the work, allowing you to cut it accurately at any position. (☞ P.5-50) | unchecked |
| Vacuum ON Before Output (CFX series only) | Turns on the main unit vacuum to suck down the work before output. | unchecked |
| Vacuum OFF After Output (CFX series only) | Turns off the main unit vacuum after output. | unchecked |
| Flute Direction (CFX series only) | The pressure of the ruling roller can be automatically adjusted according to the flute (corrugation) direction of the cardboard core. <ul style="list-style-type: none"> The [Flute Direction] setting in the Output Condition Setup (☞ P.7-14) is reflected. | unchecked |
| Vertical | Select when the flutes are perpendicular to the plotter table. | checked |
| Horizontal | Select when the flutes are horizontal to the plotter table. | -- |

| Item | Description | Default |
|---|--|-----------|
| Adjust start / end (Only when the CF3 (M-head) / CFX series (R10-head) is selected) | An object is cut from 2 mm away from the object. (If the outside is not used, use this function to cut start / end position finely. <ul style="list-style-type: none"> When using the CF3 (M-head) / CFX series (R10-head), be sure to check the start position of cutting on the preview after setting. If the cutting line goes over the next object, space among objects on Illustrator. | checked |
| Joint Setting (Only when the CF3 (M-head) / CFX series (R10-head) is selected) | Leaves a part of the cutting line, and cuts it last. It prevents the work from misaligning and makes the cutting surface fine. | checked |
| Joint | Set the number of joint (places to leave). | 1 |
| Length | Set the length to leave. | 3 |
| Height | Set the height to leave. | 1 |
| Pause | Select to withdraw the head and to fix the media with tape. (☞ P.5-47) | unchecked |
| Liquid Level (DCF-605PU (Digital coating machine)) | The remaining liquid level is displayed as a percentage and in cc. | - |
| Enable coating misalignment correction during the Preview (DCF-605PU (Digital coating machine)) | Checking [Enable coating misalignment correction during the Preview] displays the filling lines based on [Misalignment Correction] when [Preview] is clicked. | checked |

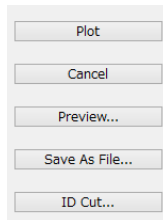
Buttons

Settings differ from the selected model. (🔗 P.7-4 "[Plotter/User Setup] Screen")

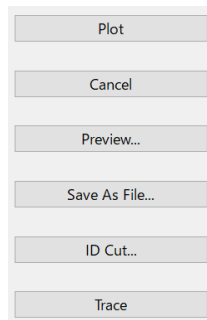
- **CG (Except CG-FXII Plus, CG-AR series), CJV30, TPC, CJV300/150, CF, CF2, DC, CF3 series, Gravotech LS series**



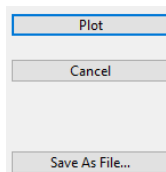
- **CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CF22-1225**



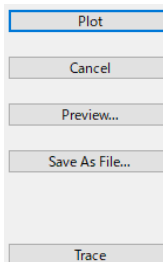
- **CFX series**

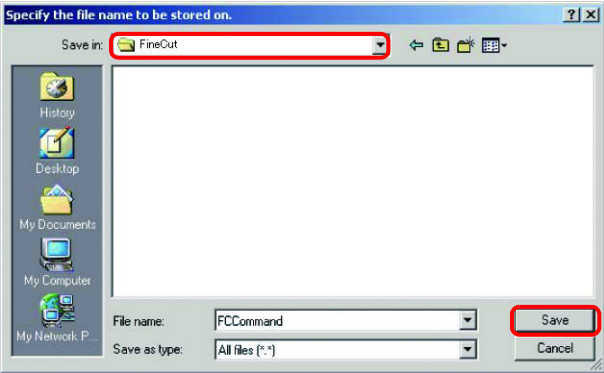


- **Trotec Speedy series**



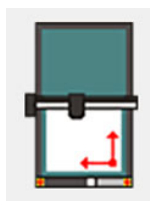
- **DCF-605PU (Digital coating machine)**



| Item | Description |
|---|--|
| [Plot] | Starts plotting as the set conditions. |
| [Cancel] | Cancels plotting. |
| [Preview] (Except Trotec Speedy series) | <p>Previews the plotting with the set condition. Confirm the plotting by preview and adjust the settings. (☞ P.5-29 "Checking the Cutting Process by Preview")</p> <ul style="list-style-type: none"> • Before starting plotting, be sure to check the outline on the preview. |
| [Save As file] | <p>Saves the plot data in a plot file. Select the folder and click [Save].</p>  |
| [ID Cut...] (CG-FXII Plus, CG-AR, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, CFL-605RT, CF22-1225) | Send ID data and print data to hot folder of RasterLink.(☞ P.5-19) |
| [Trace] (Only when the CFX series, DCF-605PU (digital coating machine) is selected) | <ul style="list-style-type: none"> • When using the CFX series, this allows you to move the head around the cutting path and trace it with a laser pointer without actually cutting. • When using the DCF-605PU (digital coating machine), this allows you to move the head without printing the top coat, allowing you to check the coating position. |

Status Display

● CFX series



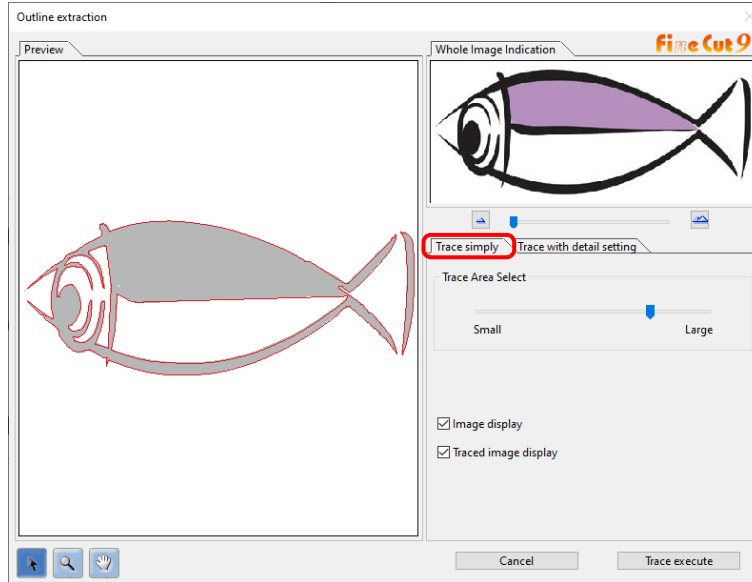
| Item | Description |
|---------------------|--|
| Toggle State | Displays the main unit toggle state.(☞ P.5-52) |





[Outline Extraction] Screen

Create outline to cut bitmap images.

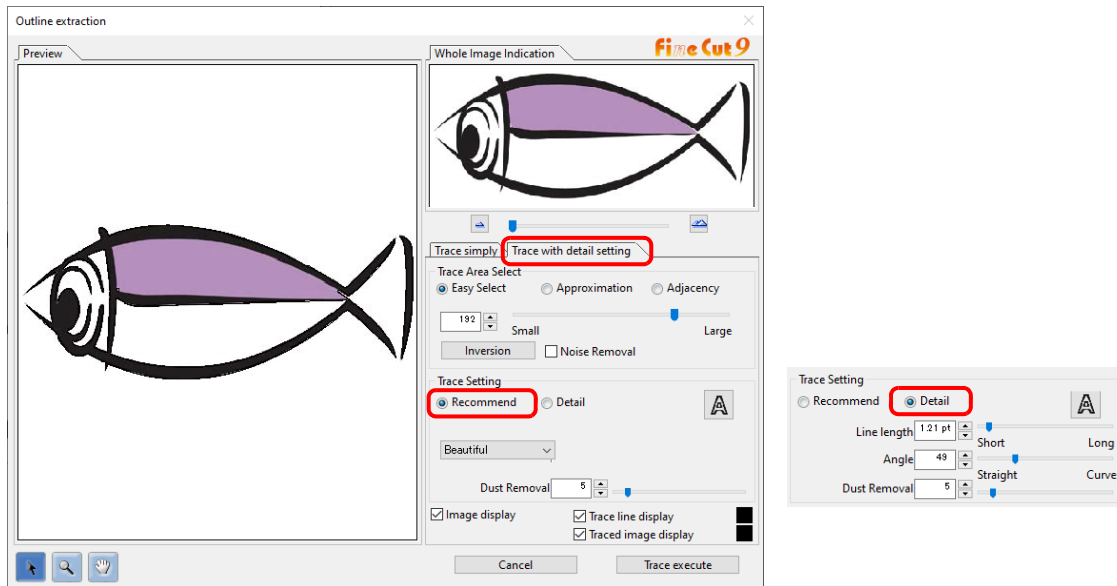
To display this screen, click  ([Outline Extraction] button) in the FineCut/Coat menu.





Trace simply




| Item | Description |
|---|---|
| Preview | Displays the image (monochrome) and the traced image. |
|  | Moves all the object being displayed. |
|  | Zooms in and out the preview. Click on the preview to enlarge the view. To reduce the view, click on the layout area as pressing down the [Alt] key (Windows) or [Option] key (Macintosh). |
|  | Changes the displaying area of the object. |
|  | Zooms in and out the preview. |
| Trace Area Select | Drag the slider to select the tracing area. Move to [Small] to trace narrower area. Move to [Large] to trace wider area. |
| Image display | Select whether the image to be traced is displayed on the preview or not. If checked, a trace area set on Trace Area Select is displayed in grey. You can confirm the outlines to be extracted or compare the image and the traced image. |
| Traced image display | Select whether the traced image is displayed on the preview or not. |

Trace with detail setting



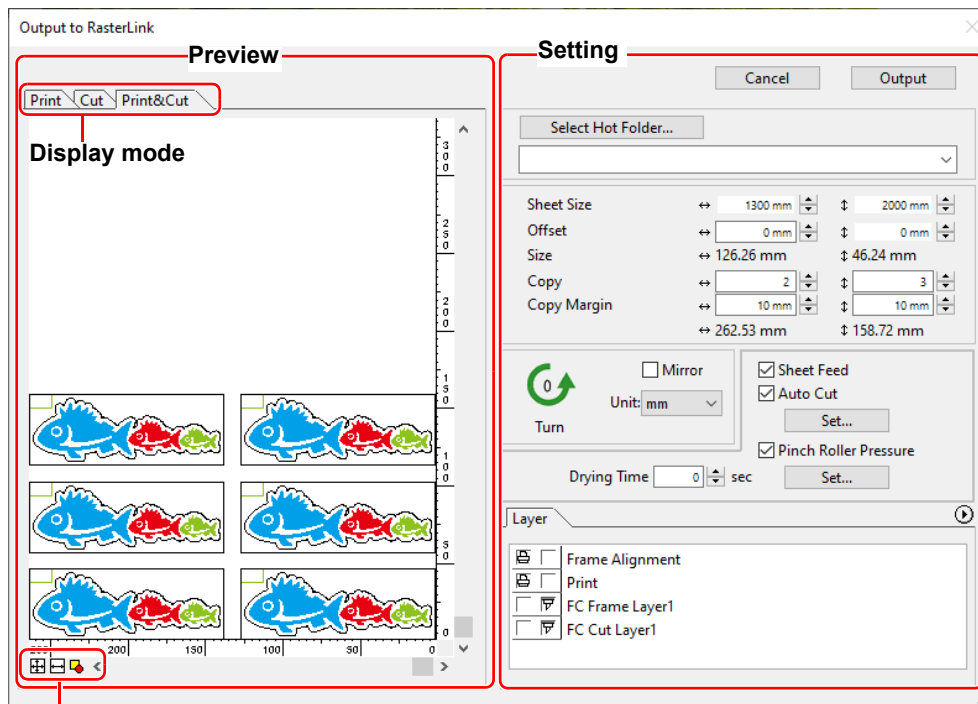
| Item | Description | Default |
|---|---|-----------|
| Preview | Displays the image (monochrome) and the traced image. | -- |
|  | Moves all the object being displayed. | -- |
|  | Zooms in and out the preview. Click on the preview to enlarge the view. To reduce the view, click on the layout area as pressing down the [Alt] key (Windows) or [Option] key (Macintosh). | -- |
|  | Changes the displaying area of the object. | -- |
|  | Zooms in and out the preview. | -- |
| Trace Area Select | | |
| Easy Select | Select the trace area based on luminance of image. (Range: 2-255) | checked |
| Approximation | Select an approximate color of the color specified on the preview screen from the whole image. | -- |
| Adjacency | Select the same color area as connected to the location specified on the preview screen. | -- |
| Entry column/Slider | Set the range of the selected trace area. • For [Approximation] or [Adjacency], decreasing the slider value enables to extract more accurate. | -- |
| [Inversion] | Inverses the select area. | -- |
| Noise Removal | Makes a smooth line, reducing uneven outline. | unchecked |

| Item | Description | Default |
|---|--|-----------|
| Trace Setting (recommended setting) | | |
| Beautiful | Creates detail outlines. | checked |
| Fast | Extracting time is fast but the details of the outline is rough. | -- |
| Trace Setting (detail setting) | | |
| Line length | Specify a length for one line. The shorter the line becomes, the more elaborate in detail. | 1.7pt |
| Angle | Specify an angle for the top shape of line. The angle increases by angle becoming small, and the curvilinear increases by angle becoming large. | 50 |
| Trace Setting (common to the recommended setting and the detail setting) | | |
|  | Extracts only the outline. | unchecked |
| Dust Removal | Delete the line that is shorter part than the specified length. Remove the extra lines created by scanning. | 1pt |
| Image display | Select whether the image to be traced is displayed on the preview or not. If checked, trace an area set on Trace Area Select is displayed in grey. You can confirm the outlines to be extracted or compare the image and the traced image. | checked |
| Trace line display | Displays selected tracing area. Click square on the right to change the display color of the tracing area. | checked |
| Traced image display | Select whether the traced image is displayed on the preview or not. Click square on the right to change the display color of the traced image. | checked |

[Output to RasterLink] Screen

When using CG-FXII Plus, CG-AR, CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series, Trotec Speedy series, CFL-605RT, CF22-1225 or TPC, set items to output print data and cutting data to RasterLink.




Click  [Output to RasterLink] button in the FineCut menu.



Zoom size display

Preview



Displays image of an object.

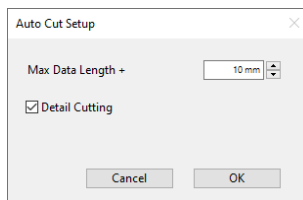
| Item | Description |
|---|--|
| Display mode | |
| Print | Displays a printed image. |
| Cut | Displays a cut image with black line. |
| Print&Cut | Displays a cut image on the printed image by layers with black line. |
| Zoom size display | |
|  | Fit In Sheet Size Displays the entire sheet. |
|  | Fit In Sheet Width Enlarges the sheet width to full screen. |
|  | Fit In Objects Size Displays the enlarged object to fill the screen. |

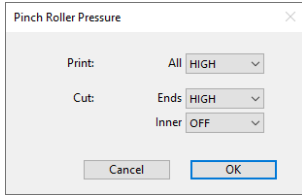
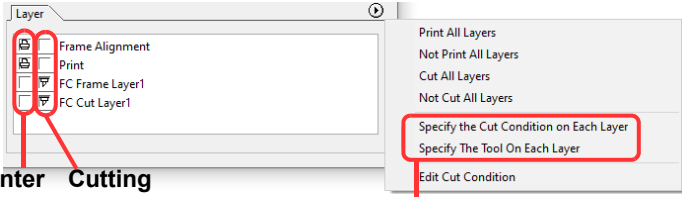



- The display type of this screen can be set on "Plotter / User Setup" screen. (☞ P.7-32)

Setting

| Item | Description | Default |
|--|---|-----------|
| [Cancel] | Cancels the setting. | -- |
| [Output] | Set EPS and output a data to RasterLink. | -- |
|  mark | Appears if an image gets out of the sheet by the object size or the copy setting. | -- |
| [Select Hot Folder...] | Select a hot folder of RasterLink. The hot folder name selected before can also be selected from the list. If hot folder does not exist, create it on RasterLink. • The folder created from the [Create a new folder] button of the folder reference screen does not work as a hot folder. Create a hot folder from RasterLink. | -- |
| Sheet Size ^{*1} | Enter an effective sheet size (width and length) set on the plotter. Effective size can be checked on RasterLink. | -- |
| Offset ^{*1} | Set an offset (horizontal/ vertical direction) from the origin on the lower right of the sheet. | 0 |
| Size ^{*1} | Displays the vertical and horizontal lengths of an object. | -- |
| Copy ^{*1} | Enter the number of copies of one object along the horizontal and vertical directions. | 1 |
| Copy Margin ^{*1} | Enter the margin between the copied objects along the horizontal and vertical directions. | 10 |
| Turn ^{*1} | Rotates the object anticlockwise in unit of 90 degrees. Degrees (0, 90, 180, 270) are displayed in the arrow mark. | 0 |
| Mirror ^{*1} | Reverses the right and left of the object image and cuts it. | unchecked |
| Unit ^{*1} | Set the display unit in this screen. | mm |
| Sheet Feed ^{*1} | Feeds the sheet before plotting to check whether the entire data can be plotted. | checked |
| Auto Cut ^{*1} | When cutting a roll sheet continuously, the sheet is separated automatically after completing the plotting. [Set...] button becomes effective with this item checked. On the screen below, set the margin length from maximum data length (the length from the final line to the cutting position) and cutting a data at every line. ( P.3-30) | checked |



| Item | Description | Default |
|---------------------------------|---|-----------|
| Pinch Roller Pressure *1 | Sets the pinch roller pressure. [Set...] button becomes effective with this item checked. On the screen below, set the pinch roller pressure when printing or cutting (ends or inner position).  | unchecked |
| Drying Time *1 | Set drying time of media after printing. | 0 |
| Layer | Select/Set the layer to print or plot.  Printer icon Cutting icon Setting by layer <ul style="list-style-type: none"> • Printer icon Click to put a mark on the printing layer. • Cutting icon *2 Click to put a mark on the cutting layer. • Setting by layer *1 Click  button and select [Specify the Cut Condition on Each Layer] or [Specify The Tool On Each Layer]. Then, select the cutting condition or tools on the right column of the layer names. | -- |





*1. You cannot use this for the Trotec Speedy series.

*2. Output to RasterLink is possible when you select CG-FXII Plus, CG-AR, CFL-605RT or CF22-1225, which support ID Cut (P.5-19) and can produce multilayer printing plates. In this case, the cutting icon cannot be selected.




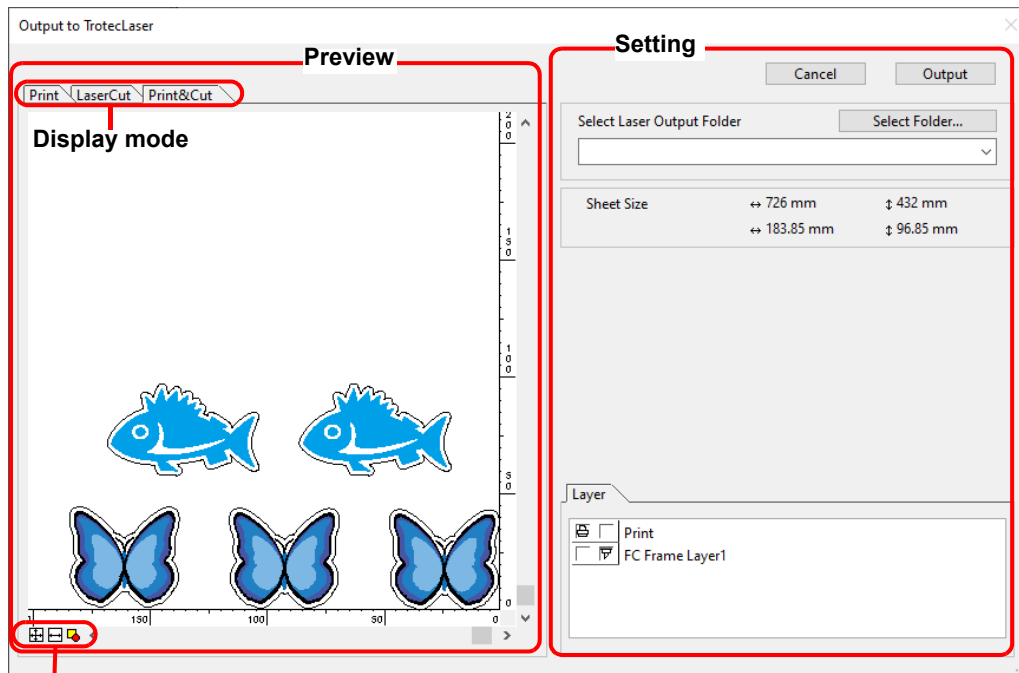
- When both the print and the cut are marked on the Layer screen shown above, the plotter prints, and then cuts the object. If the printing layer has a register mark created with the register mark creation of FineCut, it reads the register mark position after printing, and cuts on the more accurate position.
- When only cutting is marked on the layer screen, include the register mark in the cutting layer to cut with the register mark loaded.
- If not setting [Specify the Cut Condition on Each Layer] or [Specify The Tool On Each Layer], it plots with the setting of the plotter.
- Data is placed with the margin of 0.5mm around. (For the Trotec Speedy series, the data is laid out without margins.)

Important!

- When cutting with the register mark loaded, set [1Pt] on [MARK DETECT] of CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series or TPC as the number of register mark detection.
- When creating the register mark on the register mark creation of FineCut, uncheck [Leave a rectangle as the cutting line]. If checked, the plotter cuts with a part of the rectangle missed. ( P.3-9)
(Activating [Outer Frame Cut] of Cut Condition screen is recommended.)
- When printing type2 register mark (), space between copies for at least the register mark size. ( P.3-9) 
- Create only one set of register mark on Illustrator. Creating plural marks causes an error.
- When different settings are made for each layer, RasterLinkPro4 Ver.1.1 or before cuts with the condition shown on the top of the set layer list.
RasterLinkPro4 1.2 or later will cut with each layer setting.

[Output to TrotecLaser] Screen




When using Trotec Speedy series, set items to output cutting data to Trotec Laser.
Click  [Output to TrotecLaser] button in the FineCut menu.




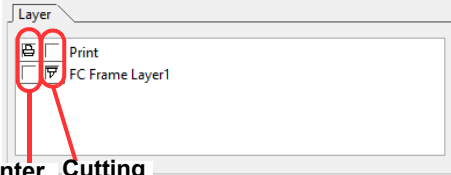
Zoom size display

Preview

Displays image of an object.


| Item | Description | |
|---|--|--|
| Display mode | | |
| Print | Displays a printed image. | |
| Laser Cut | Displays a cut image with black line. | |
| Print&Cut | Displays a cut image on the printed image by layers with black line. | |
| Zoom size display | | |
|  | Fit In Sheet Size | Displays the entire sheet. |
|  | Fit In Sheet Width | Enlarges the sheet width to full screen. |
|  | Fit In Objects Size | Displays the enlarged object to fill the screen. |

Setting

| Item | Description |
|--|---|
| [Cancel] | Cancels the setting. |
| [Output] | Output the data to the output folder specified using Trotec UniDrive. |
|  mark | Appears if an image gets out of the sheet by the object size or the copy setting. |
| [Select Hot Folder...] | Select the output folder specified by Trotec UniDrive. |
| Layer | <p>Select/Set the layer to print or plot.</p>  <p>Printer icon Cutting icon</p> <ul style="list-style-type: none"> • Printer icon Click to put a mark on the printing layer. • Cutting icon Click to put a mark on the cutting layer. |

[About FineCut/Coat] Screen

Displays the operation manual of FineCut/Coat and the latest information (online information).

Click  ([About FineCut/Coat] button) in the FineCut/Coat menu.

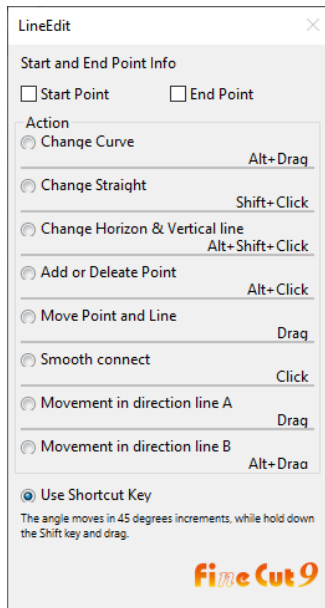


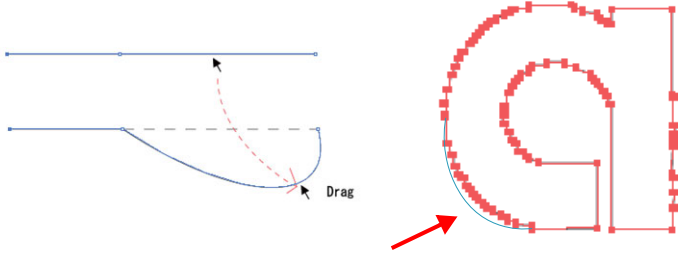
| Item | Description |
|---------------------------|--|
| Operation Manual | Displays the Operation Manual of FineCut/Coat (This manual). |
| Online Information | Displays the latest information or update information of FineCut/Coat. A PC with Internet access is needed. |
| Firmware Update... | This is the menu only for service engineers. |

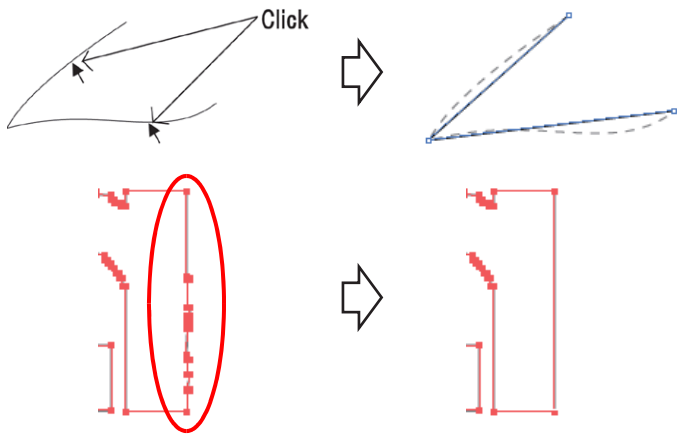
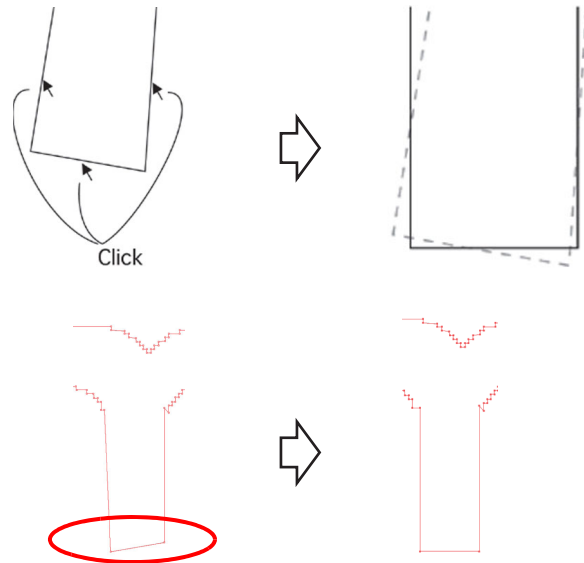
[Line Edit Tool] Screen

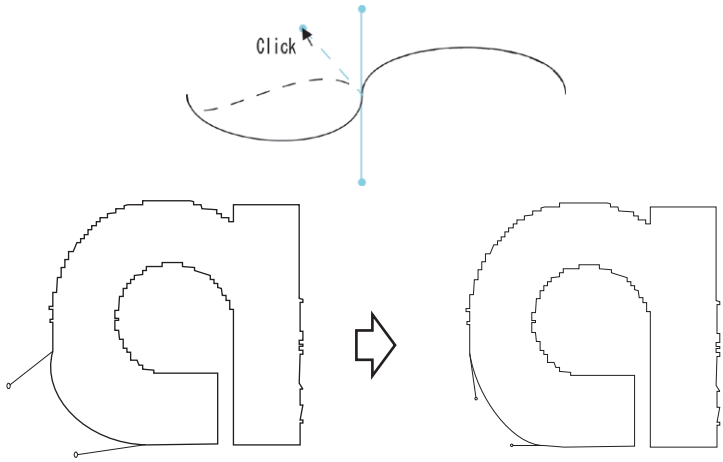
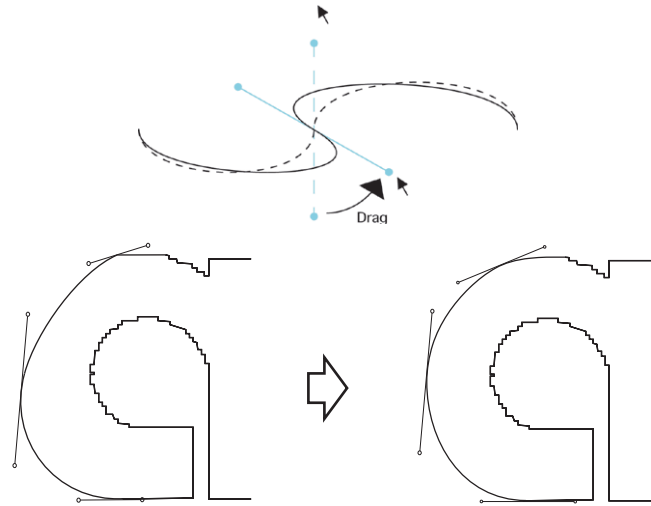
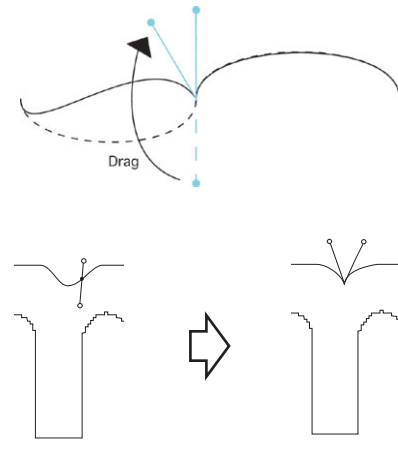
Specify Start Point and End Point, then edit the multiple lines altogether. It is also possible to edit the lines one by one.

Click  ([LineEdit] button  P.6-2) in the Illustrator Toolbars.





| Item | Description |
|---------------------------------|--|
| Start and End Point Info | Set the Start Point and End Point. <ul style="list-style-type: none"> • Start Point Move the cursor close to the anchor point to show "S". Click the anchor point to set the start point. • End Point After setting the start point, move the cursor close to the anchor point to show "E". Click the anchor point to set the end point. |
| Change Curve | Curve the line between the Start Point and End Point. Select the Start Point and End Point, then drag the line.  |

| Item | Description |
|--|--|
| <p>Change Straight</p> | <p>Straighten the line between the Start Point and End Point. Select the Start Point and End Point, then click along the line.</p>  |
| <p>Change Horizon_Vertical line</p> | <p>Click along the line to make it horizontal or vertical. The line can be measured as horizontal or vertical by an angle of the clicked line.</p>  |
| <p>Add or Delete Point</p> | <p>To add an anchor point, click the position to add on the line. To delete the anchor point, click the anchor point.</p> |
| <p>Move Point and Line</p> | <p>Move the line while holding the shape between Start Point and End Point.</p> |

| Item | Description |
|--|--|
| <p>Smooth connect</p> | <p>Set the control point at identical tilt and smooth the joint of the line.</p>  |
| <p>Movement in direction line A</p> | <p>Move the control point to change the curvilinear shape. At a time, move the control point in opposite side to smooth the joint of the line.</p>  |
| <p>Movement in direction line B</p> | <p>Move only the selected control point to change the curvilinear shape.</p>  |

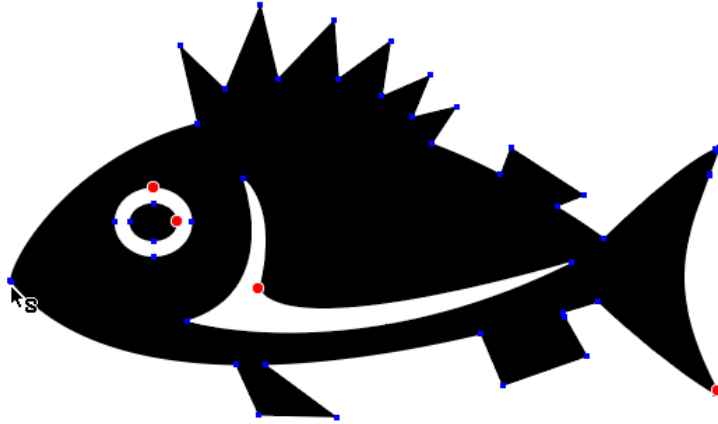
Setting Cutting Start Position

The start position of cutting an object can be specified.

Click  ([Specify Cutting Start Position] button  P.6-4) in the Illustrator Toolbars.



- When using the CF, CF2, DC, CF3, CFX series, CFL-605RT, or the CF22-1225, uncheck [Optimize Cutting Start Position] on the [Plot Out] screen. If checked, the cutting start position set below becomes invalid.



| Item | Description |
|---------------------------------------|---|
| Current cutting start position | Indicates with a red dot. |
| Setting cutting start position | Click a target anchor point to change the start point. The set anchor point turns red. |


[Online Information] Screen

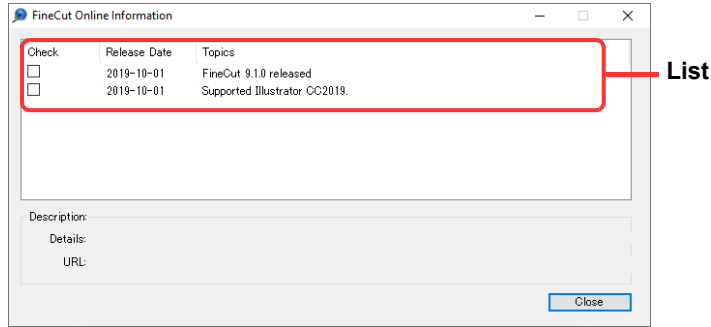
Displays the latest information and update information of FineCut/Coat.

Important!

- This screen is not displayed when unconnected to Internet.



- To prevent this screen from displaying each time of starting Illustrator, set on "Plotter/User Setup". (☞ P.7-4)
- This screen is also displayed by clicking [Online Information] from  of FineCut/Coat menu.
- This screen is displayed only in English or Japanese.



| Item | Description |
|---------------------|---|
| List | The list of FineCut/Coat information is displayed. Click to display the information on the bottom column of Outline. Double-click to display the detailed information on Web browser. |
| Check | Put a check if the information is checked. Checked items are not displayed when starting Illustrator next time. (However, if starting [Online Information] from FineCut/Coat menu, the checked items are also displayed.) |
| Release Date | It is the released date of the information. |
| Topics | It is an outline of the information. |
| Description | Details: The details of the information selected above is displayed. URL: Click to display the detailed information on Web browser. |

Uninstallation of FineCut/Coat

To uninstall FineCut/Coat, follow the procedures below.

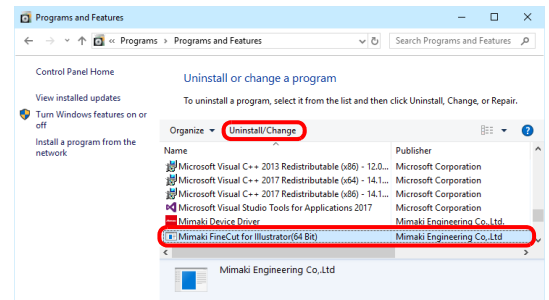
For Windows

1

Select [Control Panel]-[Programs]-[Programs and Features].

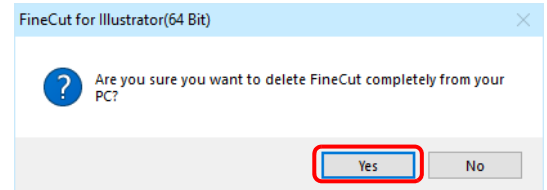
2

Select [Mimaki FineCut for Illustrator] and Click [Uninstall/Change] button.



3

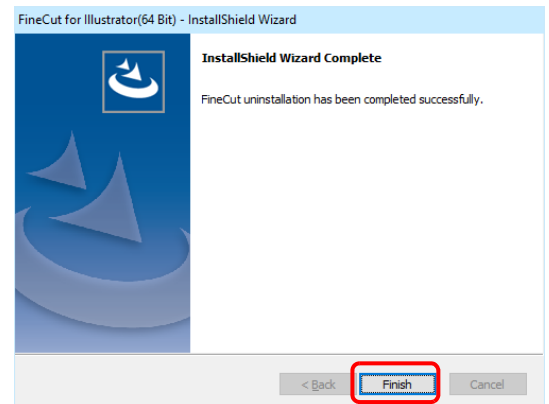
When a message on the right appears, click [Yes].



4

Click [Finish].

- Uninstallation is complete.



For Macintosh

Delete [Mimaki FineCut] folder in the [Plug-ins] folder of Illustrator in which FineCut/Coat is installed.

CHAPTER 8

Troubleshooting



This section describes the troubles and the solutions.

| | |
|---|-----|
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| Invalid path created in the object when creating an edge.. | 8-3 |
| A shadow or an edge cannot be deleted | 8-4 |
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Troubleshooting

Memory runs out

Stroke weight and overlap recognition/ Frame extraction/ Trapping/ Outline extraction requires large amount of memory for complicated objects. Depending on the specifications of the machine, the target object may not be processed for an insufficient memory.

In this case, divide the object into several objects, and execute the process for each divided object, instead of selecting the entire object and executing the process at one time. Some types of object can avoid the insufficient memory error in this way.

For Outline extraction, lower the resolution to avoid insufficient memory error.

Example 1

To recognize the stroke weight and overlap for a complicated object with the title and the object separated, select each component and execute the processing separately, instead of selecting the entire object. If some parts are overlaid, select only overlaid parts and execute the process.

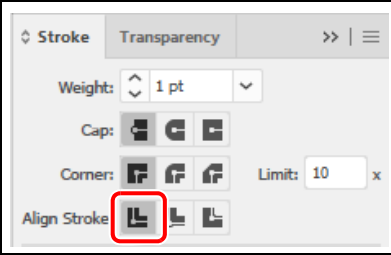
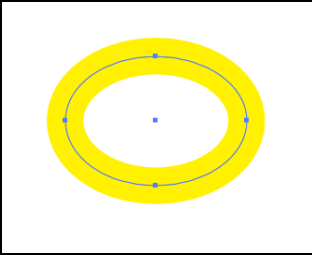
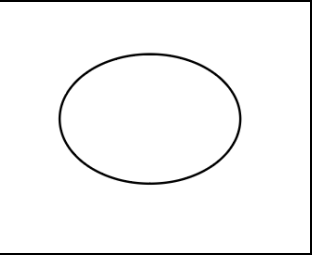
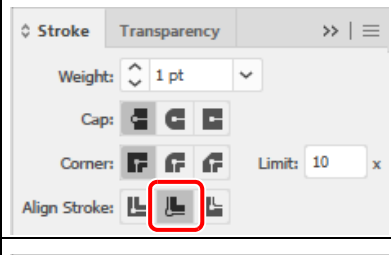
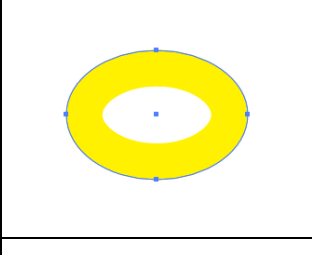
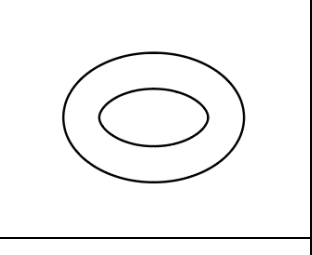
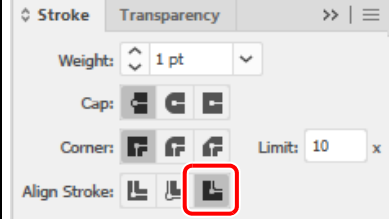
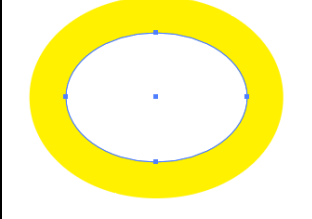
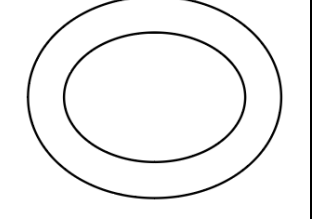
Example 2

To extract a complicated object with an outer frame, select only an outer frame and execute the frame extraction. It enables to process rapidly without wasting memory.

A double cut line will be created when [Align Stroke] is set to other than center in Illustrator

In the [Stroke] window, the cut line will be duplicated if [Align Stroke] sets to a position other than the center (default).

Set [Align Stroke] to the center.

| "Align Stroke" in Illustrator | "Align Stroke" Window in Illustrator | Graphic image in Illustrator | Cut line in FineCut | |
|-------------------------------|---|--|---|-----------------------------|
| Align Stroke to Center |  |  |  | OK |
| Align Stroke to Inside |  |  |  | No Good. |
| Align Stroke to Outside |  |  |  | The cut line is duplicated. |

Invalid path created in the object when creating an edge

Invalid path may be created in the created edge of some shapes of path.

In this case, set the smaller offset value for creating edge, or change the shape of the angle.

A shadow or an edge cannot be deleted

If editing a shadowed or edged path created in [Create Shadow / Edge] of FineCut, the path may not be deleted even if executing [Remove Shadow/Edge].

In this case, ungroup the shadowed / edged path, and then manually delete the shadow/edge.

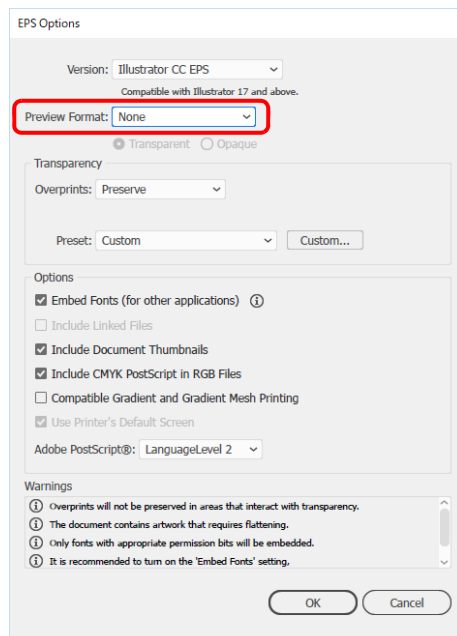
The inside path is not cut when cutting a path to which the Illustrator “Effect” was applied for the CF3 (M-head) / CFX series (R10-head)

When cutting a path to which the Illustrator “Effect” was applied with the CF3 (M-head) / CFX series (R10-head), the inside path may not be cut.

Apply “Filter” instead of “Effect” to cut properly.

An error occurs during outputting to RasterLink

Select [None] for the [Preview Format] on the screen below. Data may be correctly output.



[Specify Cutting Start Position], [Specify Cutting Direction], [LineEdit], and [Free Register Mark Tool] are not shown on the Illustrator toolbar

In Illustrator CC2019 or later, the name of the Illustrator Tools panel has been changed to Toolbar, and two types of toolbars can be displayed: [Basic] and [Advanced].

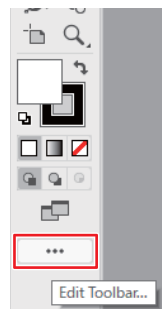
Although [Specify Cutting Start Position], [Specify Cutting Direction], [LineEdit], and [Free Register Mark Tool] are shown on the [Advanced] toolbar, Illustrator shows the [Basic] toolbar by default, which makes it seem like the tools are missing.

Display the [Advanced] toolbar, or follow the steps below to display the respective tool icons.

As an example, the following explains how to display the [Specify Cutting Start Position] in the [Basic] toolbar.

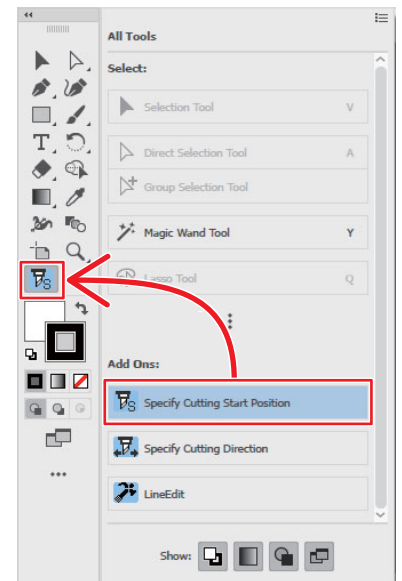
1

Click the [Edit Toolbar...] (...) icon that displays at the bottom of the Basic Toolbar.



2

Open [All Tools], and drag and drop the [Specify Cutting Start Position], which is categorized as an [Add Ons], to the toolbar.



3

Click the [Edit Toolbar...] (...) icon to close [All Tools].

Printing data is not correctly sent to RasterLink when ID cut outputting in PDF format

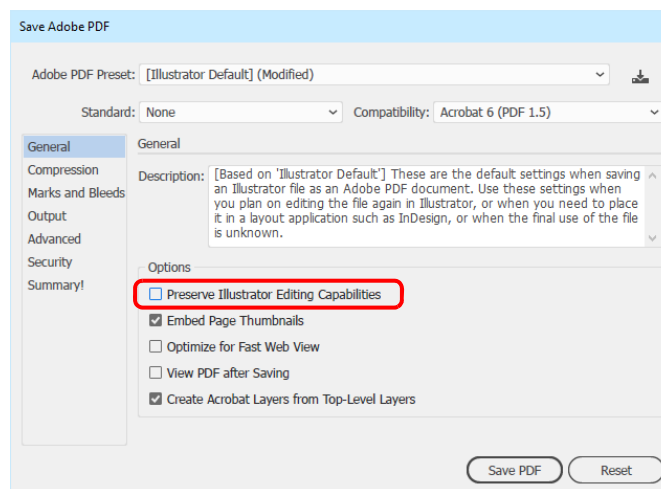
Printing data of ID cut output in PDF format may be missing or blank in RasterLink.

1 Make sure that all data including register mark are contained in the Illustrator artboard.

- If the problem persists, proceed to the next step.

2 Uncheck "Preserve Illustrator Editing Capabilities" on the PDF option screen which is displayed at ID cut output.

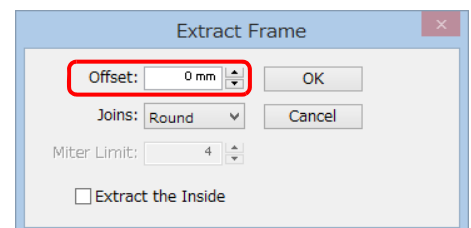
- The following message may be displayed, "...may disable some editing features when the document is read back in.", please click [OK] to save.



Cutting and printing are misaligned when ID cut outputting the data including image

Cutting and printing may be misaligned when ID cut output data including images.

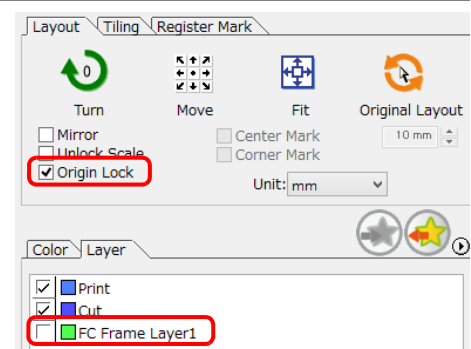
1 Select image data and create a frame at offset 0 mm by [Extract Frame].



2 Make sure that the frame at offset 0 mm is not output.

On the [Plot] screen, make the following settings.

- Turn on "Origin Lock" checkbox on the [Layout] tab.
- Turn off "FC Frame Layer" checkbox on the [Layer] tab.

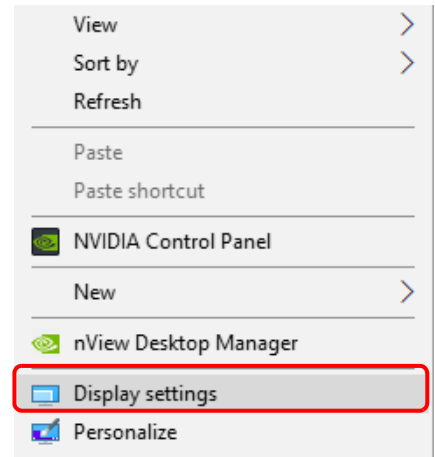


Illustrator aborts when clicking on the color/layer list in the [Plot] screen

If you click the Color / Layer list check on the [Plot] screen in the following environment, Illustrator may terminate unexpectedly.

- OS: Windows 10
- Illustrator version: CC2019
- When the display area is expanded horizontally in multiple displays.

1 Right-click on the desktop and select [Display settings].



2 Make the value of [Scale and layout]-[Change the size of text, apps, and other items] the same magnification for all displays.

Scale and layout

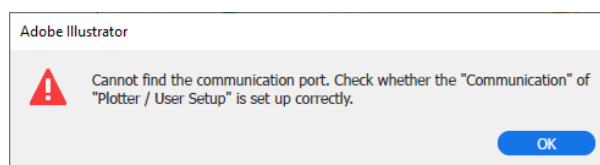
Change the size of text, apps, and other items

100% (Recommended) ▾

[Advanced scaling settings](#)

LAN connection fails in “CJV300 Plus series”, “CJV330 series”, “CJV200 series”, “UCJV300 / 150 series”, or “UCJV330 series”

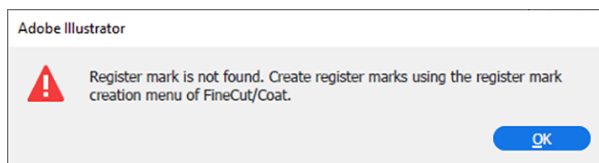
When using “CJV300 Plus series”, “CJV330 series”, “CJV200 series”, “UCJV300 / 150 series”, or “UCJV330 series” if you select and output [LAN] on the [Plotter / User Setup] screen-[Communication] tab, the following message may be displayed and output may not be possible.



In this case, you can output correctly by restarting the machine

Register mark created with FineCut cannot be recognized.

If you are using FineCut/Coat9 Ver2.3 or lower, Register mark created with Ver2.4 or higher cannot be recognized.



If you want to recognize Register mark with FineCut/Coat9 Ver2.3 or earlier, please create them with Ver2.3 or earlier.

| Register Mark Creation Ver | Register Mark Detection Ver | |
|----------------------------|-----------------------------|-----------------|
| | Ver2.3 or less | Ver2.4 or later |
| Ver2.3 or less | ✓ | ✓ |
| Ver2.4 or later | N/A | ✓ |

✓: Available

N/A: Not available

Error Messages

If following messages appear, solve the problem depending on the messages.

| Message | Solution |
|---|--|
| No response from the plotter. Check whether the plotter is in remote mode and in the correct communication. | Check the plotter is in REMOTE mode. For serial connection, check the communication setting of FineCut meets the setting of the plotter. |
| Cannot send data to the plotter. Check whether the cable is connected correctly. | Check the cable is connected correctly and not broken. For serial connection, connect a crossing cable. |
| Cannot find the communication port. Check whether the "Communication" of "Plotter / User Setup" is set up correctly. | Check "Communication" screen of "Plotter / User Setup" and the state of the plotter. |
| An Error occurred during connection in USB. | May have been disconnected during communication. Check and retry the connection. |
| No valid serial port is found. To use USB serial conversion adapter, install the driver supplied with the adapter. | When an USB-serial adapter is used, install the driver referring to the manual supplied with the adapter. |
| This port may be used by printer driver. Check the setting of Ports tab from Properties of the printer driver. | If the port for FineCut is assigned to the "Port" of the printer driver on Windows, FineCut cannot use the port. Change the port of the printer driver. |
| Media detection on the output equipment has not been completed. After media detection, execute again. | Occurs when CJV30, CJV300/150, CJV300 Plus, CJV330, CJV200, UCJV300/150, UCJV330 series or TPC does not detect media. Execute media detection, and then execute again. |
| Plotter other than Mimaki plotter or Trotec Speedy series or Gravotech LS series is connected. FineCut is able to output to Mimaki plotter, Trotec Speedy series or Gravotech LS series. | Connect Mimaki plotter, Trotec Speedy series or Gravotech LS series. |
| Register mark is not found. Create register marks using the register mark creation menu of FineCut. | Create register marks on the register mark creation menu of FineCut. |
| Register mark data is not correct. Re-create the register mark using the register mark creation menu of FineCut. | Create register marks on the register mark creation menu of FineCut again. |
| No data to be plotted. | Check the data. |
| Cannot perform processing because of insufficient memory. Increase the memory size available for Illustrator. | Restart the OS and retry. If you still have trouble, execute the followings. · Decrease the data size. · Increase the memory of the PC. |
| The data (object the starting point and whose terminal point do not correspond) which cannot carry out tile division was found. Processing is interrupted. | The object that the starting point and the terminal point do not correspond cannot execute tiling. Check the data. |
| Fails to configure the internet connection. Confirm the setting. | Check the Internet connection and the settings of the PC. |
| Some outline files of fonts not found. | Bitmap font may be included. Change to TrueType font. |
| This function is not available for the plotter model selected. Check [Model] on [Plotter/User Setup] screen. | Check that the plotter model has been correctly set. |
| Cannot write into the folder selected. Click [Select Hot Folder] button and check the folder. | Check the hot folder of RasterLink is correctly selected. |
| An unexpected error occurred. | Contact a distributor in your district to call for service. |
| An Error occurred. Error No. xxxx | |

