

Plug-in Cutting Software

**fine Cut 8** *for Illustrator®*

Windows®/Macintosh®

Cut Simply and Directly

# OPERATION MANUAL

The Mimaki logo is located in the bottom right corner of the cover. It consists of the word "Mimaki" in a bold, red, sans-serif font. The background of the cover is a vibrant, abstract composition of overlapping geometric shapes in shades of orange, red, and blue, with several white diagonal lines crossing through the design.

**MIMAKI ENGINEERING CO., LTD.**

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# Foreword

Thank you very much for purchasing a product of MIMAKI.  
FineCut, a plug-in software for Adobe®Illustrator®, offers simple operation and stable cutting environment which has never been realized by other cutting software.

## Note

- This Operation Manual has been carefully prepared for your easy understanding, however, please do not hesitate to contact a distributor in your district or our office if you have any inquiry.
- Description contained in this Operation Manual are subject to change without notice for improvement.
- Do not copy this software to any other disk for the purpose of other than making a backup disk or load it in memory for the purpose of other than execution.
- Except for the damages prescribed in Warranty Notes of MIMAKI Engineering Co., Ltd. assumes no responsibility for effects (including loss of income, indirect damages, special damages, or other financial damages) resulting from the use or non-use of the product. This also applies to the case when MIMAKI Engineering is notified of the possibility of damages.  
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- You can also download the latest operation manual from our website.

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# New Functions of FineCut8

## **Advanced cutting**

You can specify the cutting start position. (☞ P.6-4)

You can also avoid cutting thick media too much by separating line and cutting from outside to inside, or from inside to outside. (CF/CF2/DC/CF3 series) (☞ P.4-22)

## **Extracting outline easily (☞ P.4-12)**

You can extract outline of images easily with “Trace simply”.

## **Adding the register mark (☞ P.3-6)**

You can add the mark (▼) on the bottom center of the register guide. (option)

You can easily find the direction of the register guide when cutting printed objects.

## **The latest information of FineCut online (☞ P.7-41)**

You can get the latest information of FineCut online such as update information.

(For Mac OS X, 10.4 or later is supported.)

(It displays in English or Japanese.)

## **Correction using intermediate register mark (☞ P.3-8)**

You can cut a long outline with higher accuracy by the intermediate register mark and the register reading function of CG-SR III series.

# System Requirement

## System and software

The following conditions are required to use FineCut8.

Item	Windows	Macintosh
<b>Computer</b>	IBM PC or compatible mounting Pentium processor or compatible CPU	Macintosh mounting Power PC or Intel CPU
<b>OS</b>	Microsoft® Windows®2000 (service pack 4 and later), Windows®XP (service pack 2 and later), Windows Vista™, Windows®7, Windows®8, Windows®8.1 When it is connected with the plotter via USB, it does not support Windows XP 64-bit.	Mac OS 9.2.2 Mac OS X 10.2.6 to 10.10 When it is connected with the plotter via LAN cable, it does not support Mac OS 9.2.2.
<b>Monitor</b>	1024 x 768 pixels, or higher resolution is required	
<b>Software</b>	Adobe®Illustrator® 8.0.1, 9, 10, CS, CS2, CS3, CS4, CS5, CS6, CC, CC2014	
<b>Plotter</b>	MIMAKI CG series (CG-45 or later), MIMAKI CF-09/12 series, MIMAKI CF2 series, MIMAKI DC series, MIMAKI CF3 series, MIMAKI CJV30 series, MIMAKI TPC, MIMAKI CJV300/CJV150 series, MIMAKI CFL-605RT	
<b>Online Information function</b>	As described in "OS" above	Mac OS X 10.4 or later
<b>Connection</b>	Serial connection (crossing cable) or USB connection or LAN connection	
<b>Others</b>	Compliant with the operation environment of Adobe®Illustrator® used	

**Important!**

- To output to a serial port of the plotter from USB port, USB-serial adapter is required. (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.

# How to Read This Manual

## Notations

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

## Symbols

**Important!**

- Indicates cautions or procedures you must perform.



- Describes useful information.

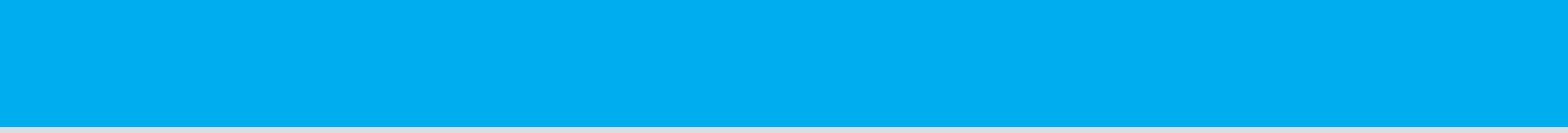


- Indicates a page of related contents for reference.

## FineCut menu

FineCut dialog is displayed as follows on Illustrator.  
In this manual, it is called “FineCut menu”.





# CHAPTER 1

## *Preparation*



**This chapter describes how to set the plotter, install FineCut, and set the connection to the plotter.  
Before using FineCut, work in the order described in this chapter.**

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# Setting of Plotter

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

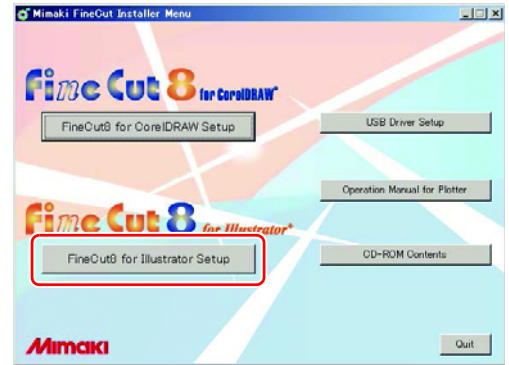
Plotter	Item	Setting	
<b>CG-EX Series</b>	ORIGIN SELECT	LOW RIGHT	
<b>CG-FX Series, CG-FXII Series, CG-75ML, CG-60SR, CG-SRII, CG-SRIII Series</b>	ORIGIN SELECT	LOW RIGHT	
	Register Mark Setting	MARK DETECT	1Pt
		DIST REVI	AFTER
		offset A	0.0mm
		offset B	0.0mm
		COPIES A (↑)	1 (sheet)
		COPIES B (←)	1 (sheet)
	ROTATION	OFF	
PRIORITY	HOST		
<b>CJV30 Series, TPC, CJV300/CJV150 series</b> • Set all for each tool.	Register Mark Setting	MARK DETECT	1Pt
		OFFSET Y (←)	0.0mm
		OFFSET X (↑)	0.0mm
		COPIES Y (←)	1 (sheet)
		COPIES X (↑)	1 (sheet)
<b>CF-09/12 Series</b>	CMD SW	Enable	
	ORIGIN	LOW-LEFT	
	CIRCLE θ CORRECTION	Enter an angle of positive number	
<b>CF2 Series, DC Series, CF3 Series CFL-605RT</b>	CMD SW	Enable	
	ORIGIN	LOW-LEFT (LOW-RIGHT for CF3)	
	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.	1pt	
	<MULTI-PASS>-CUT START	OFF	

# Installation of FineCut

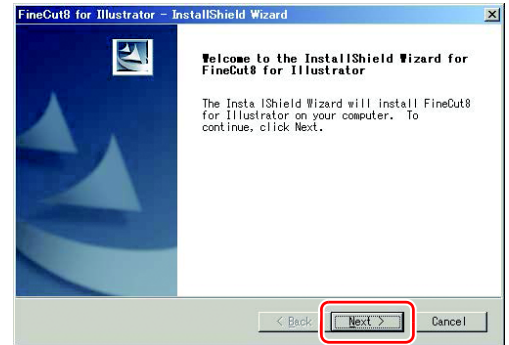
## For Windows

**1** Start the computer, and set the CD-ROM of FineCut into the CD drive.

**2** Click [FineCut8 for Illustrator Setup].

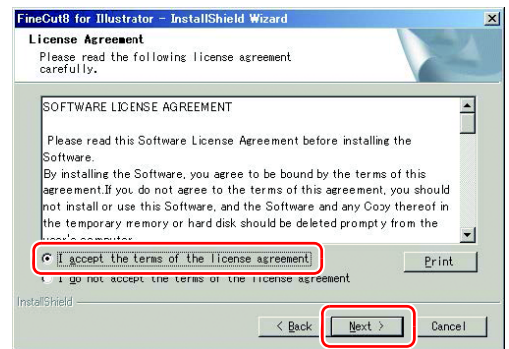


**3** Click [Next].



**4** Check the Software License Agreement.

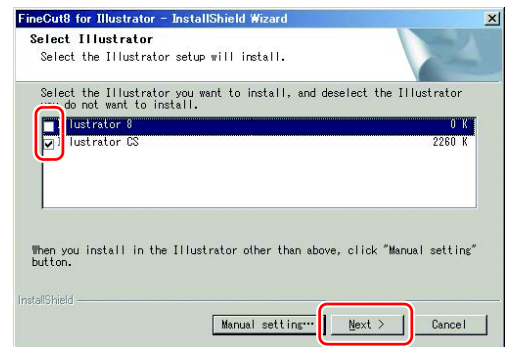
Read through the agreement, click [I accept the terms in the license agreement] to consent the agreement, and click [Next].



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

Uncheck the Illustrator not to be installed on.

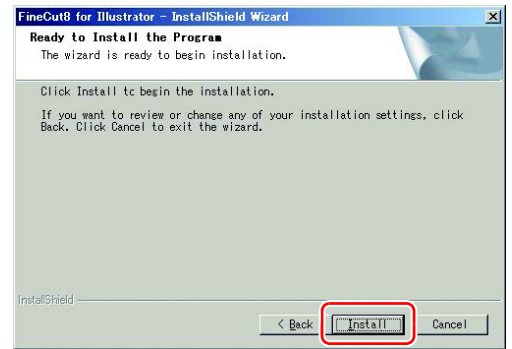
If the Illustrator used does not appear on the list, click [Manual setting] and select a plug-in folder of the Illustrator.



6

**Click [Install].**

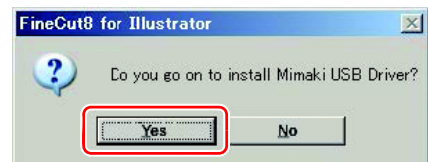
Installation starts.



7

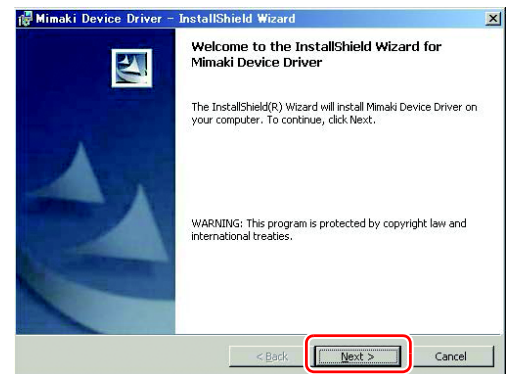
**If USB driver does not exist, a screen shown on the right appears. Click [Yes].**

If USB driver exists, go to the Step 13.



8

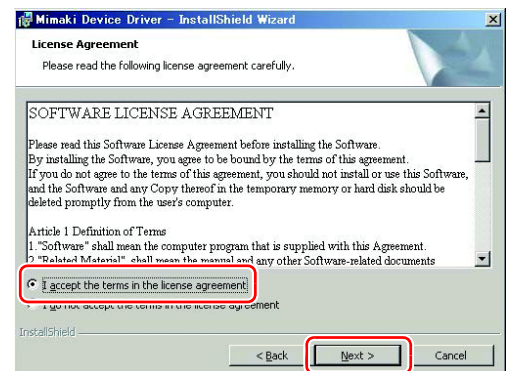
**Click [Next].**



9

**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].



**10** Click [Install].  
Installation starts.

**11** Click [OK].  
Connect the plotter.

**12** Click [Finish].

**13** Click [Finish].  
Installation is complete.

Next, go to "Online Information". (🔗 P.1-10)

# For Macintosh (MacOS9.2.2 to MacOSX 10.6x)

1

Start the computer, and set the CD-ROM of FineCut into the CD drive.

2

Double-click the FineCut CD icon.



3

Double-click "for MacOS9.2.2 ~ 10.6x".



4

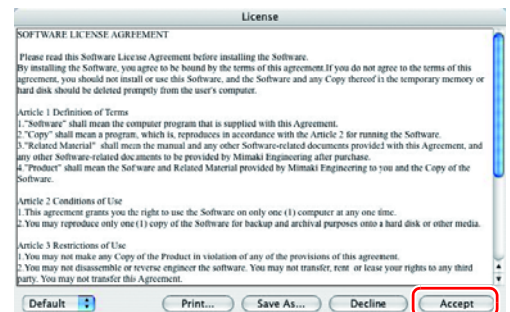
Double-click the installer icon.



5

Check the software license agreement.

Read through the agreement, and click [Accept] to consent the agreement.



6

Select the type of installation, and then click [Install].

- Select [Standard Install] for the type of installation.
- To change the install location, click [Switch Disk] and select the disk.



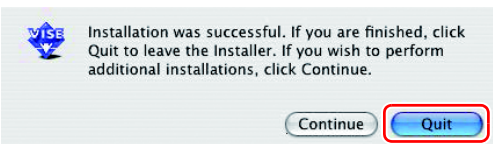
**7** **Select the version of Illustrator to be installed on.**

Click the button to start installation.



**8** **Click [Quit].**

Installation is complete.  
To continue the installation, click [Continue].



Next, go to "Online Information". (☞ P.1-10)


**For Macintosh (MacOSX 10.7 or later)**

**1** **Start the computer, and set the CD-ROM of FineCut into the CD drive.**


**2** **Double-click the FineCut CD icon.**



**3** **Double-click "for MacOSX10.7 or Later".**



**4** **Double-click the installer icon.**



5

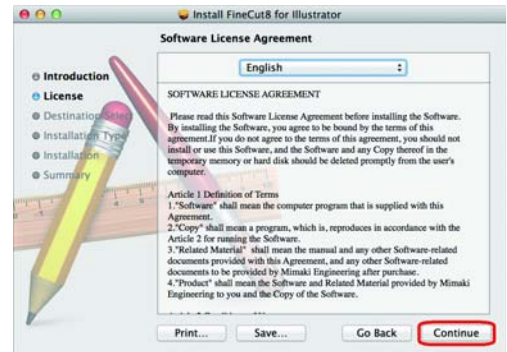
Click [Continue].



6

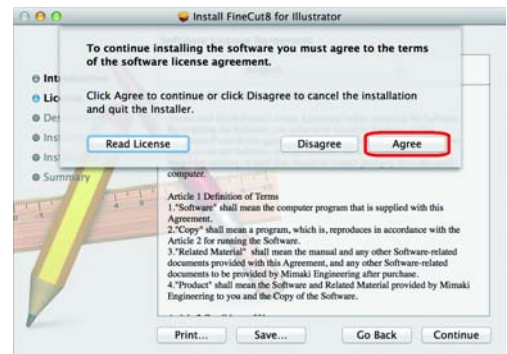
Check the software license agreement.

Read through the agreement, and click [Continue] to consent the agreement.



7

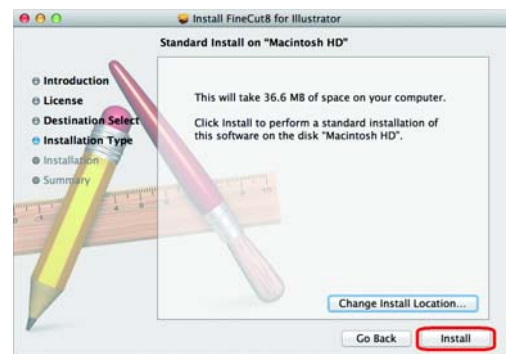
When you agree “Software license agreement”, click [Agree].



8

Click [Install].

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



9

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

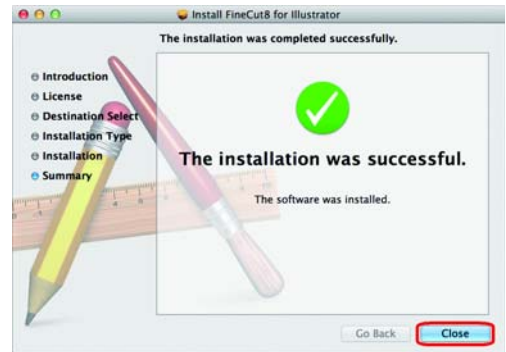
Click the button to start installation.



10

Click [Close] .

Installation is complete.

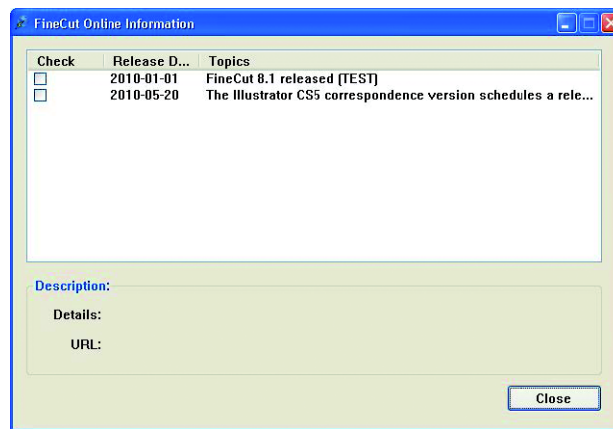


Next, go to "Online Information". (🔗 P.1-10)

# Online Information

If a new information about FineCut 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.7-41 for details)



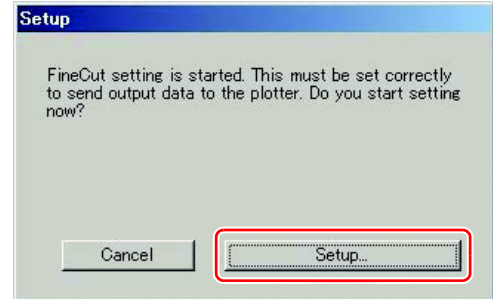
Next, go to "Connecting to the Plotter". (☞ P.1-11)

# Connecting to the Plotter

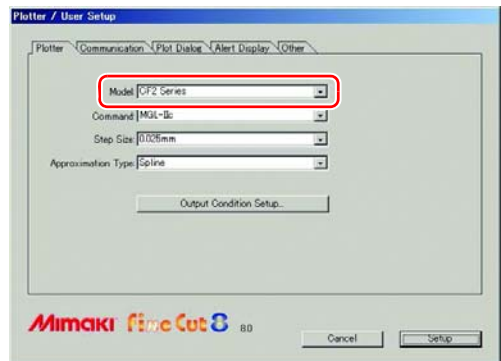
Before outputting data to the plotter, set the plotter on FineCut.

**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.

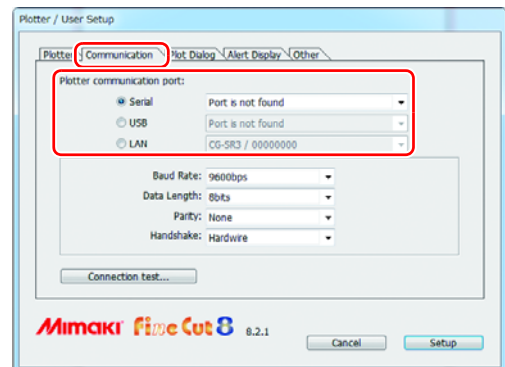
**1** When creating or opening a document first after installing FineCut, the screen shown on the right appears. Click [Setup].



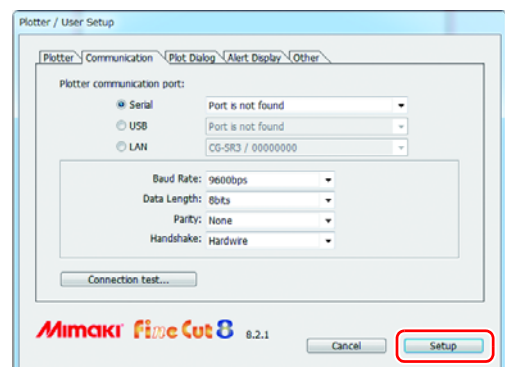
**2** Select the plotter used.  
Select the plotter used on [Model].  
Set the other items as needed. (👉 P.7-4)



**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.7-12 for details)



**4** Click [Setup] to save the setting.



Preparation is complete.



# **CHAPTER 2**

## ***Basic Cutting***



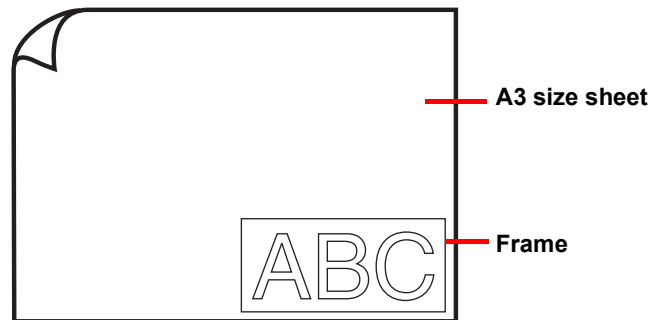
**This section describes basic procedures of cutting.**

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Basic Cutting .....	2-2
Fill and Stroke of an Object .....	2-6

# Basic Cutting

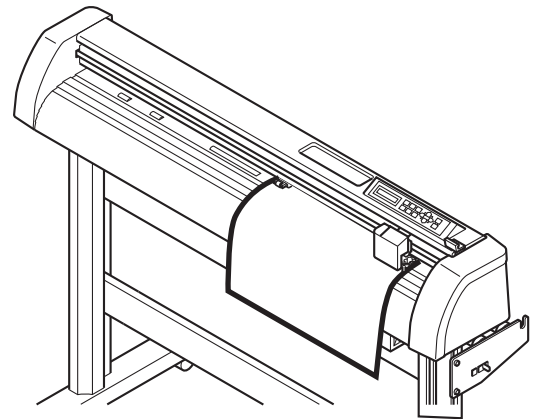
## Basic Cutting

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 the sheet loading or the plotter operation, refer to the Operation Manual supplied with the plotter.

**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.**

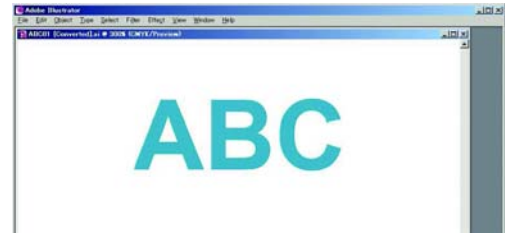
You do not need to set A3 for the paper size.



- If the following screens appear, see "CHAPTER 1 Preparation".  
"Online Information" "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 [Show FineCut Menu] (select [Mimaki FineCut] for Illustrator 10 or later) from the [Window] menu in the Illustrator.



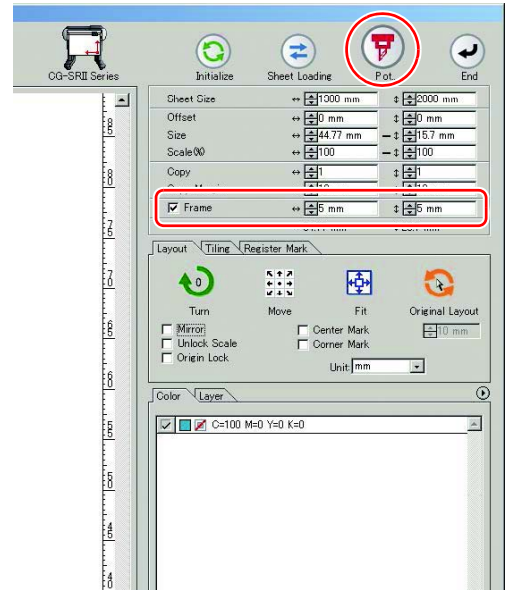
2

# 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.




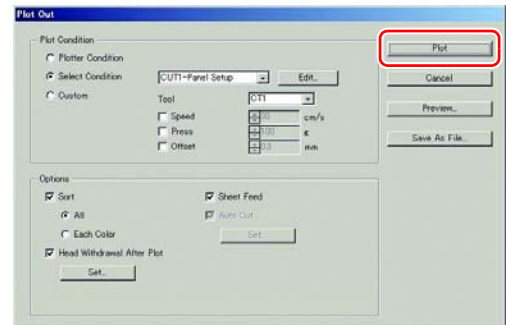
### Important!

- If  mark appears on the left of , 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.

# 7

## Set plot condition, and click [Plot].

( P.7-27 for details)



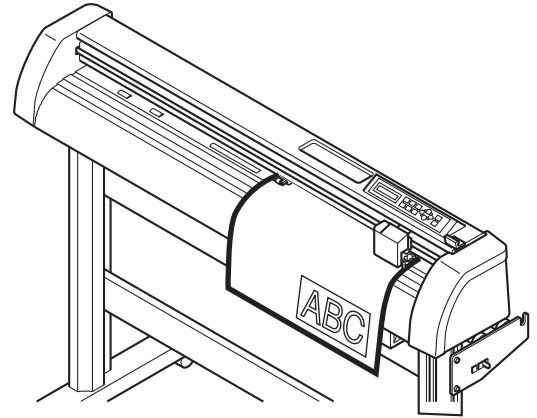
### Important!

- 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 (the bottom left for MIMAKI CF/CF2/DC series), which is the sheet origin of the sheet.



9

**After cutting, click  (End button).**

“Plot” screen is closed.

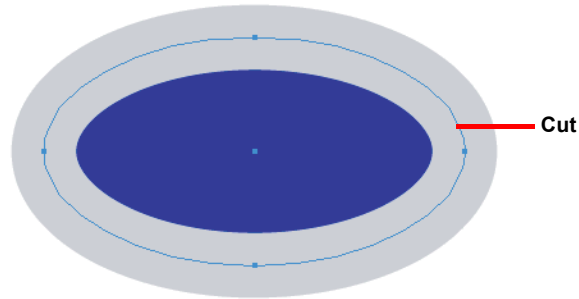


2

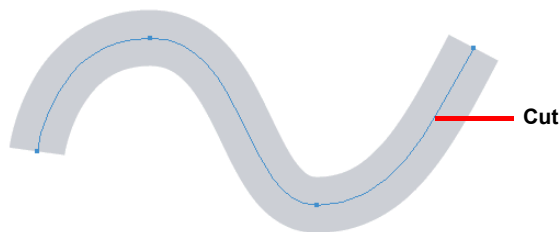
Basic Cutting

## 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.**

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# Work Flow

**Important!**

- Fit the communication setting of FineCut to the setting of the plotter connected. If the FineCut settings differ from the settings of the plotter, the object will not be output normally. (☞ P.7-12)

## 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.

## 3 Make register marks. (☞ P.3-6)

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

## 4 Cut the object. (☞ P.3-15)

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.

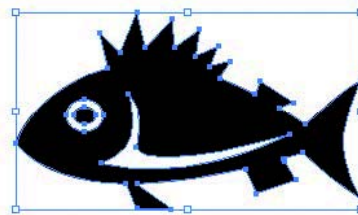
Model	Function	Reference page
<b>CG-EX series</b>	Cutting register marks	P.3-15
<b>CG-FX/ CG-FXII/ CG-75ML/ CG-60SR/ CG-SRII/ CG-SRIII/ CJV30/ TPC/ CJV300/ CJV150 series</b>	Cutting one image continuously	P.3-17
	Cutting multiple images continuously (CG-75ML only)	P.3-23
	Cutting an outline and a base sheet cutline at a time (except CG-FX/CG-FXII)	P.3-26
<b>CF2/DC/CF3 series</b>	Cutting register marks	P.3-29
	Cutting with Mark Separation	P.3-32
	Cutting from the reverse side	P.3-35
<b>CFL-605RT</b>	Cutting register marks	P.3-38
	Cutting one image continuously	P.3-39
	Cutting with Mark Separation	P.3-41
	Cutting from the reverse side	P.3-44

# Making a Frame (Cutting Line)

Specify offset to make cutting line automatically.

1

Select an object to attach a frame.



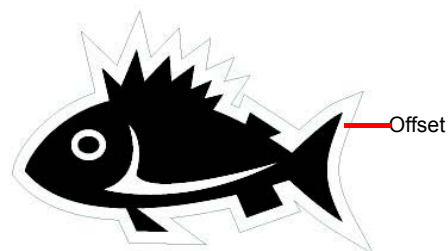
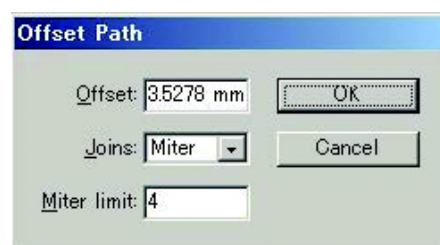
2

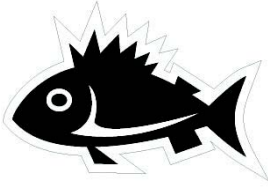
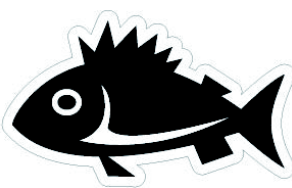
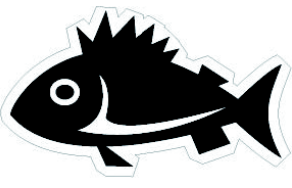
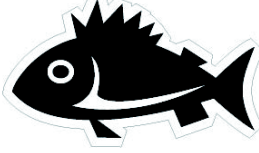

Click [Frame Extraction] button in the FineCut menu.



3

Set a path for the frame.



Item	Description
<b>Offset</b>	Set the distance from the object to the frame. For bleed, enter a negative value.
<p><b>Joins</b></p> <p>Set the shape of frame corners. • 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.</p> <div style="display: flex; justify-content: space-around; text-align: center;"> <div> <p><b>Miter</b></p>  </div> <div> <p><b>Round</b></p>  </div> <div> <p><b>Bevel</b></p>  </div> </div>	
<b>Miter Limit</b>	<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><b>Example:</b></p> <div style="display: flex; justify-content: space-around; text-align: center;"> <div>1mm</div> <div>10mm</div> </div> <div style="display: flex; justify-content: center; margin-top: 10px;">   </div>

**4**

**Click [OK].**

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



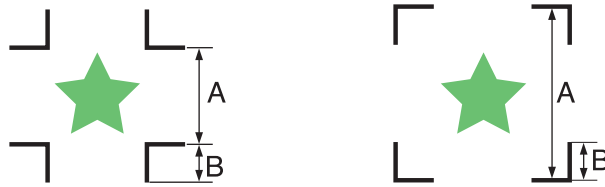
- Every time executing [Frame Extraction], a new layer is created as “FC Frame Layer 1”, “FC Frame Layer 2”.  
Use them when setting print or cutting condition for each layer. (☞ P.5-16)
- The data in this layer is set as non-printed, since it is used as cutting data.  
To print this data, enable “Print” 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.

### CG series, CJV30 / TPC / CJV300 / CJV150 series

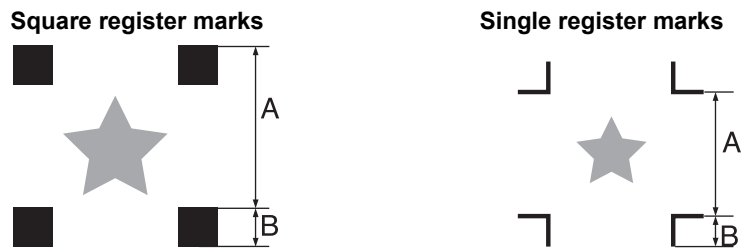


A	200 max.	500 max.	1000 max.	2000 max.	2001 min.
B	4 min.	8 min.	15 min.	25 min.	35 to 40

(mm)

**Important!** • For CG-SR III series, make the register mark size (B) more than ten times the line width the register mark.

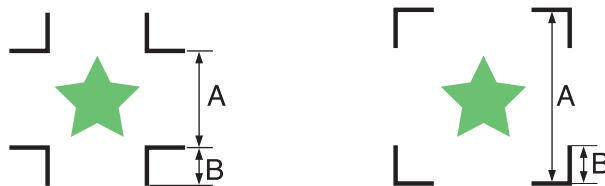
### CF2 / DC / CF3 series



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

(mm)

### CFL-605RT



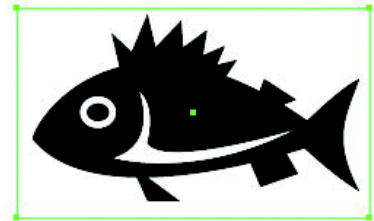
A	200 max.	500
B	10	15

(mm)

(

**CG/CJV30/TPC/CJV300/CJV150 series**

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

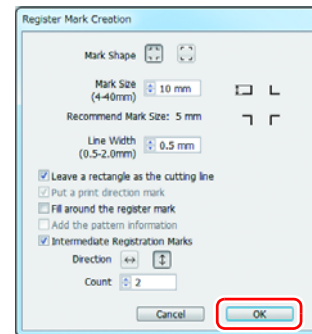



**2** Click [Register Mark Creation] button in the FineCut menu.



**3** Set the shape or others for the register mark.

Click [OK] after setting.

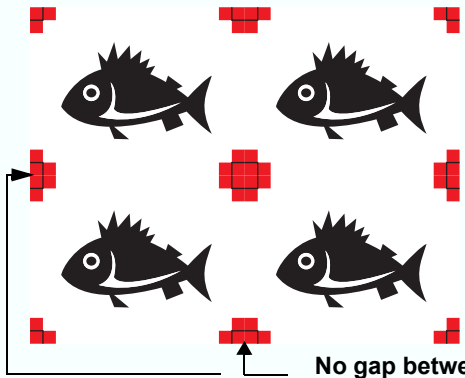



Item	Description
<b>Mark Shape</b>	Select the shape of the register mark. • When using the mark also for CF series, select  .
<b>Mark Size</b>	Set the size of the register mark. Set the larger size than [Recommend Mark Size] below.
<b>Recommend Mark Size</b>	Displays a recommended register mark size.
<b>Line Width</b>	Set the line width of the register mark. • When using the mark also for CF series, select "1 mm".
<b>Leave a rectangle as the cutting line</b>	Cuts the rectangle created in step 1.
<b>Put a print direction mark</b>	▼ 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.
<b>Fill around the register mark</b>	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 printer manual. Generally allocate red spot color to white and print.

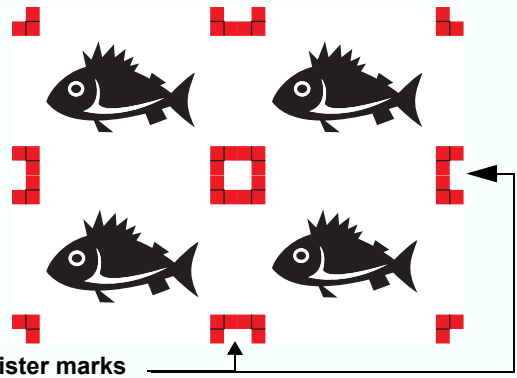
**Important!**

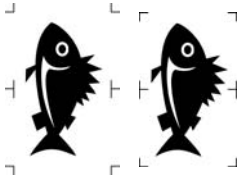

- When register mark is not recognized filling around the mark with red or white, it will not improve with the other colors. Furthermore, some types of media or inks may not recognize the register mark even if the color around the mark is changed.
- When cutting continuously (☞ P.3-17) with this function, do not gap between register marks.

When register shape is 



When register shape is 



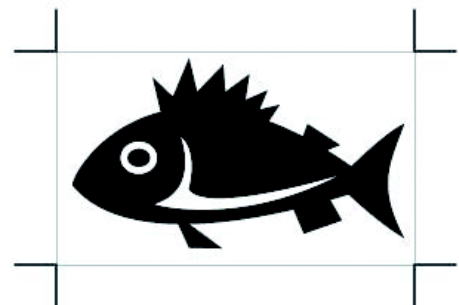
Item	Description
<b>Add the pattern information (Only for CG-75ML)</b>	Adds a bar-code shaped pattern information with register mark. With the pattern information and the register mark reading function, you can cut the outline of multiple different sticker at one time.
<b>Intermediate Registration Marks (Only for CG-SR III /CJV300/ CJV150 series)</b>	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/CJV300/CJV150 series. 
<b>Direction</b>	Set the split direction of the intermediate register mark. 
<b>Count</b>	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.**

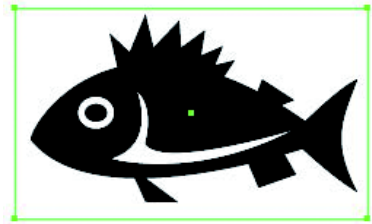


- Creating one register mark, a new register mark data is created in the new layer as [FC Register Mark Layer 1], [FC Register Mark Layer 2]... Please note that FineCut recognizes only one set of register mark. When two or more register mark sets are created, set unnecessary register mark undisplayed.

## CF2/DC/CF3 series

1

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



2

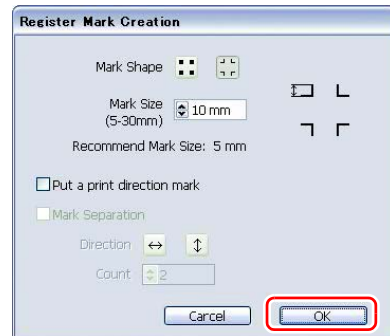
Click [Register Mark Creation] button in the FineCut menu.



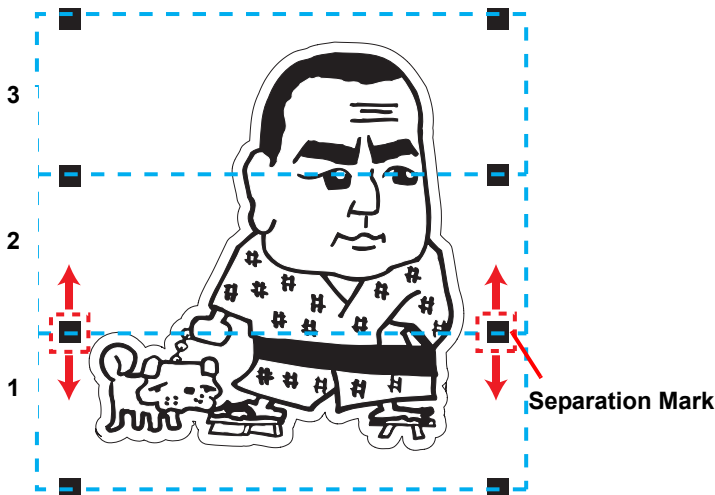



# 3

## Set the size of register mark.

Click [OK] after setting.



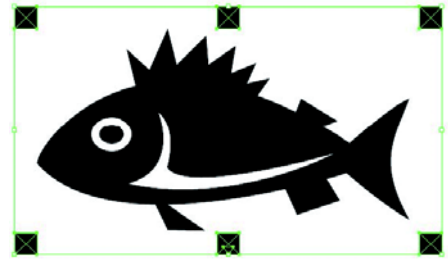
Item	Description
<b>Mark Shape</b>	Select the shape of the register mark. <ul style="list-style-type: none"> <li>When using the mark also for CG series, select .</li> </ul>
<b>Mark Size</b>	Set the size of the register mark. Set the larger size than [Recommend Mark Size] below.
<b>Recommend Mark Size</b>	Displays a recommended register mark size.
<b>Put a print direction mark</b>	▼ 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.
<b>Mark Separation</b>	Cuts each separated area. Use it when an object is too large to fit in the cut area. (  P.3-32 for cutting) <ul style="list-style-type: none"> <li>For the figure below, it is cut in 3 times of 1 to 3.</li> </ul>  <ul style="list-style-type: none"> <li>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.</li> <li>If  is selected on [Mark Shape], this function is disabled.</li> </ul>

**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**

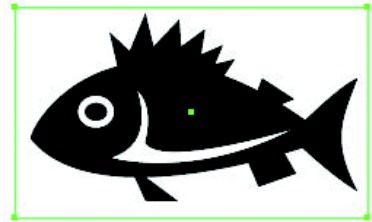
**Register marks are created.  
Output this data to the printer.**



- 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.

1

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



2

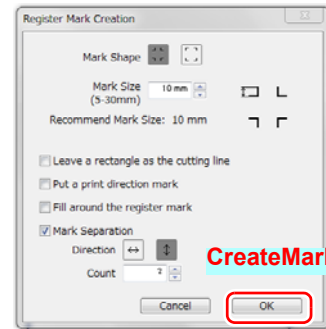
Click [Register Mark Creation] button in the FineCut menu.




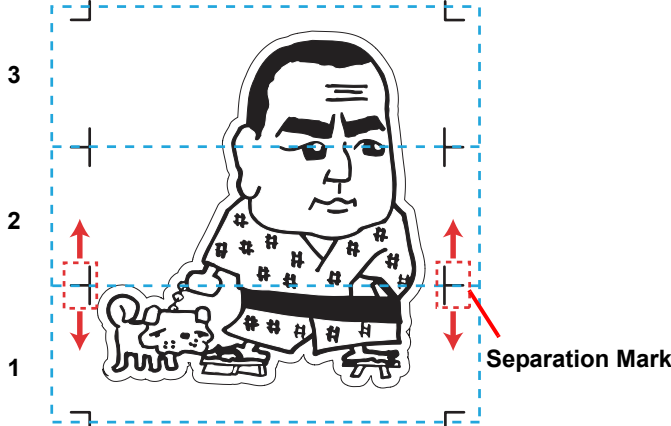
3

Set the shape or others for the register mark.

Click [OK] after setting.





Item	Description
<b>Mark Shape</b>	Select the shape of the register mark. <ul style="list-style-type: none"> <li>When using the mark also for CG or CF series, select .</li> </ul>
<b>Mark Size</b>	Set the size of the register mark. Set the larger size than [Recommend Mark Size] below.
<b>Recommend Mark Size</b>	Displays a recommended register mark size.
<b>Leave a rectangle as the cutting line</b>	Cuts the rectangle created in step 1.
<b>Put a print direction mark</b>	<p>▼ 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.</p> <ul style="list-style-type: none"> <li>If you set the intermediate register mark, you cannot add a print direction mark.</li> </ul>
<b>Fill around the register mark</b>	<p>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.</p> <ul style="list-style-type: none"> <li>Recommend color to fill around is red (default) or white. To print with white, refer to the printer manual. Generally allocate red spot color to white and print.</li> </ul>

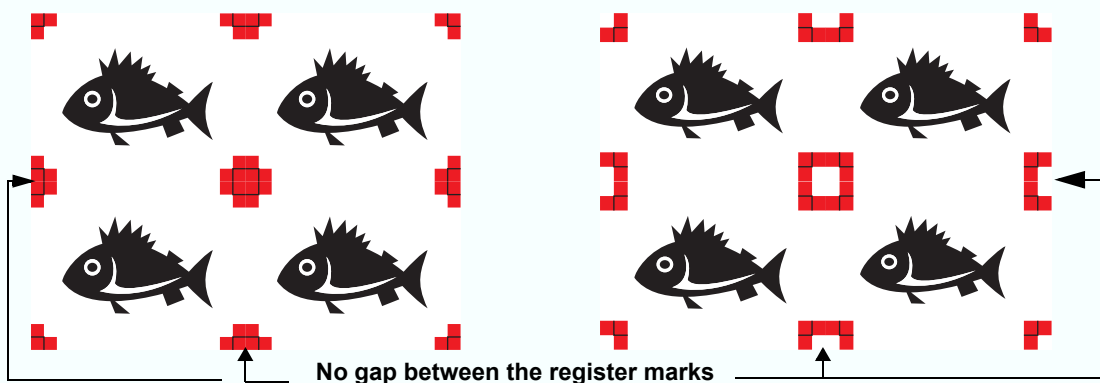
Item	Description
<p><b>Mark Separation</b></p>	<p>Cuts each separated area. Use it when an object is too large to fit in the cut area. (☞ P.3-41 for cutting)</p> <ul style="list-style-type: none"> <li>• For the figure below, it is cut in 3 times of 1 to 3.</li> </ul>  <ul style="list-style-type: none"> <li>• 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.</li> </ul>

**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.3-17) with this function, do not gap between register marks.

When register shape is 

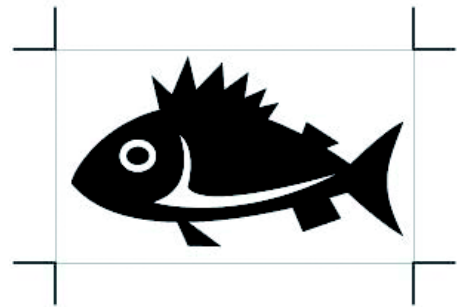
When register shape is 



- 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.

# 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 the procedure of register mark detection, refer to the operation manual of the plotter.

2

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

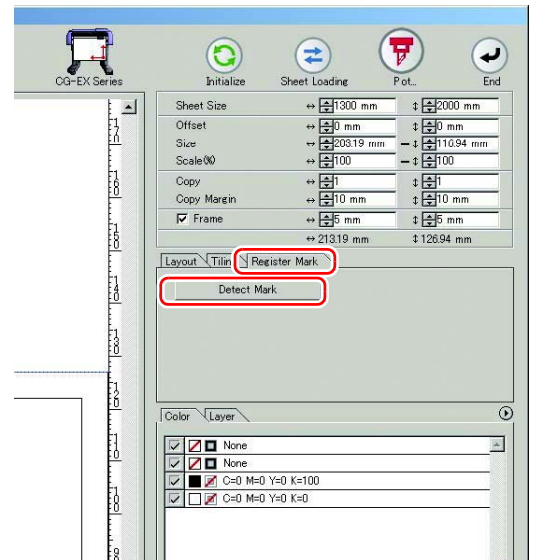


- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click  [Plot Selected Path].

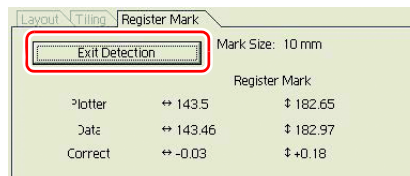
3

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

Register mark is detected.

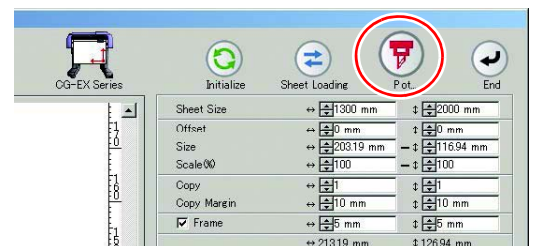


- To cancel the register mark detection, click [Exit Detection].



4

**Click  (Plot button).**

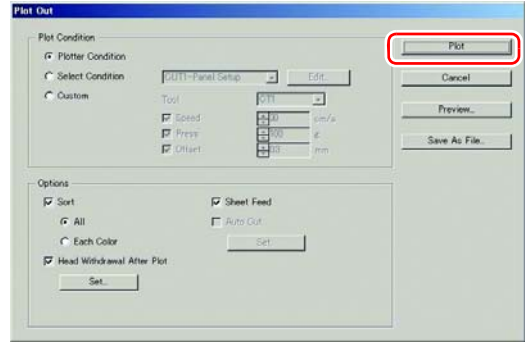


3

Creating Register Marks

5

Click [Plot] to start cutting.



## CG-FX/ CG-FXII/ CG-75ML/ CG-60SR/ CG-SRII/ CG-SRIII/ CJV30/ TPC/ CJV300/ CJV150 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/CJV150 series or TPC is used, you can print & cut by one operation working with RasterLink. (☞ P.4-14)


# 1

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

# 2

Click [Plot] button in the FineCut menu.

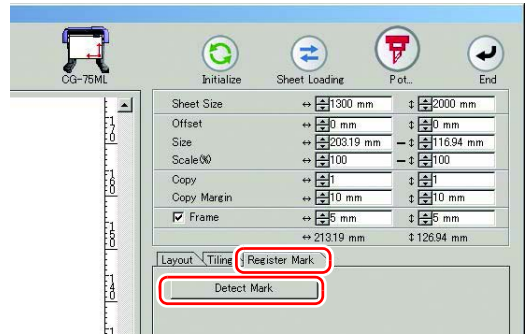


- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click  [Plot Selected Path].

# 3

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

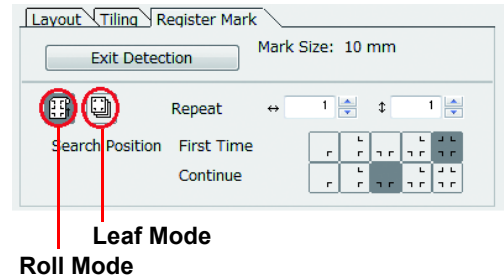
Register marks are detected.



# 4

Set register marks to detect continuously.

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

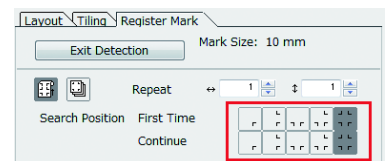


Item	Description	
ID Certification Mode	(☞ P.3-23)	
Roll Mode/Leaf Mode *1	Select the sheet to cut.	
Repeat	In case the number is indefinite, input "9999" (the maximum numbers).	
	Roll Mode	Set the data numbers to vertical and horizontal direction.
	Leaf Mode	Set the sheet numbers to replace.
Search 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 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.



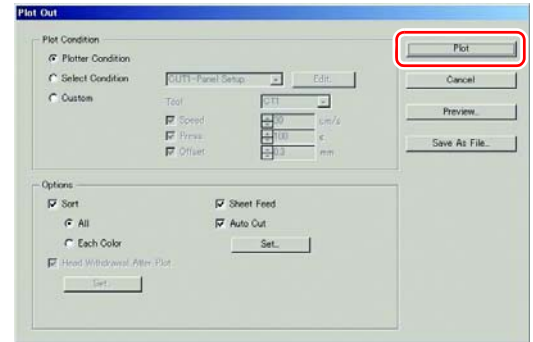
# 5

Click  (Plot button).



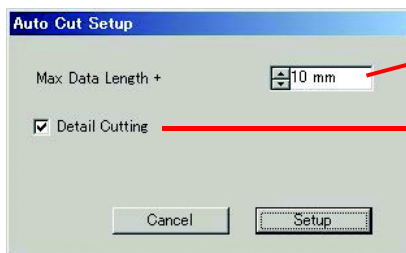
6

Click [Plot] to start cutting.



**In case of Auto Cut (When CG-FX/FXII/75ML, CJV30/TPC/CJV300/CJV150 series is selected)**

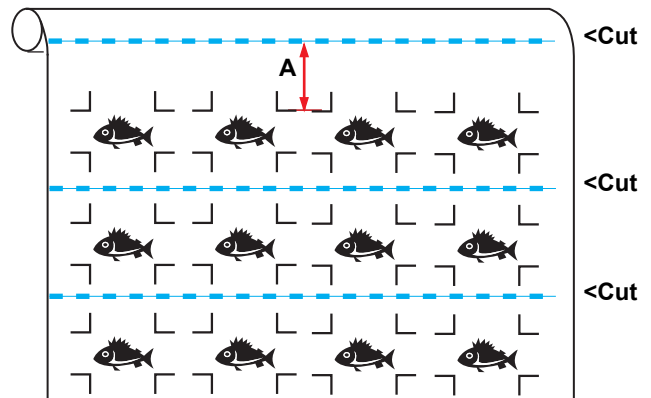
- Checking [Auto Cut] in Plot Out screen enables sheet to cut automatically after each cutting. To execute auto cut, make sure to check [Auto Cut] in this screen. Even if ON is set on the plotter, auto cut is invalid unless [Auto Cut] is checked on Plot Out screen. Even if OFF is set on the plotter, 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)

CJV300 / 150 series does not correspond to the Detail Cutting.



---

# 7

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

**Important!**

- The CJV300 / 150 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 sheet.

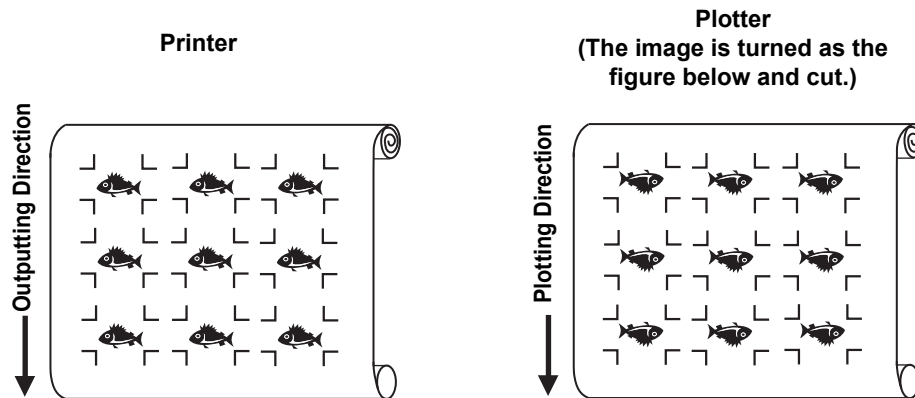


- When using CG-FX/CG-FXII, register marks are automatically detected. When using the other models, detect the register marks manually every time the sheet is replaced. For the details, refer to the operation manual of the plotter.

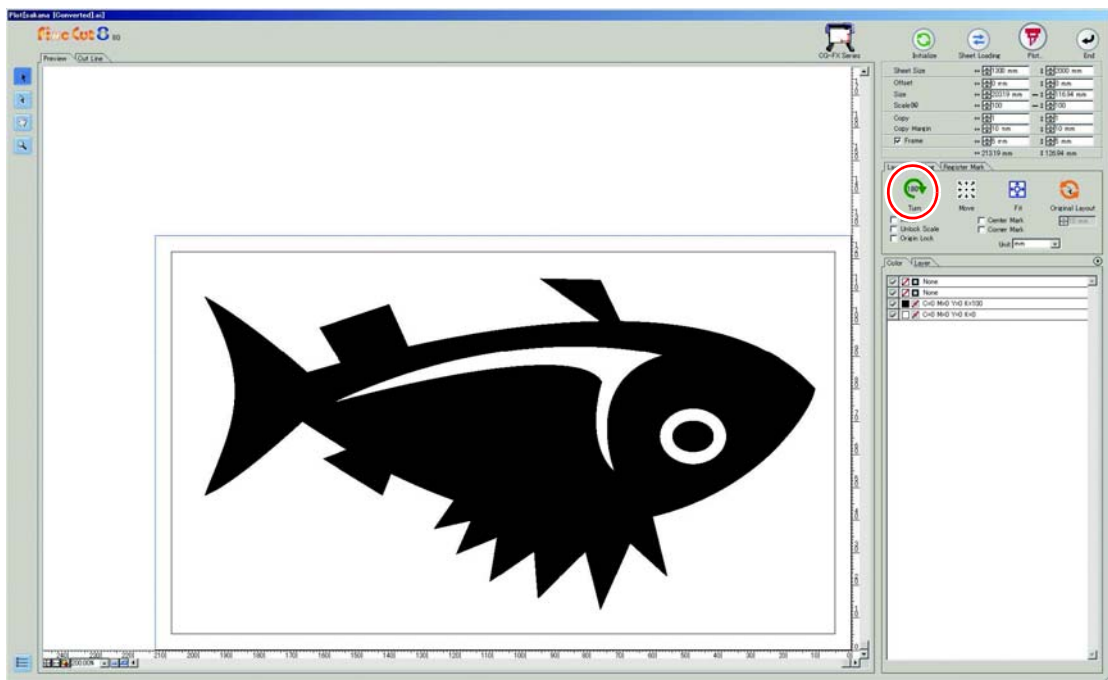


When the sheet printed by the printer with take-up function (MIMAKI JV series etc.) is rolled on a paper core

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.

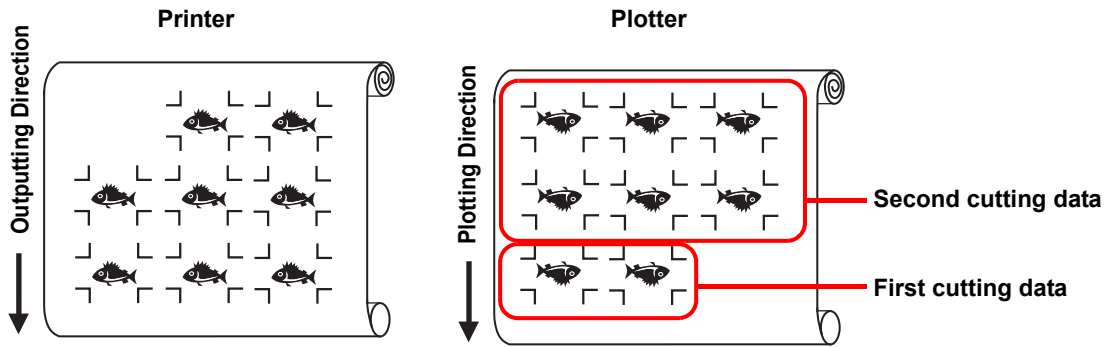


(2) Work from the step 3.



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

Cut the data in twice to cut all the data.

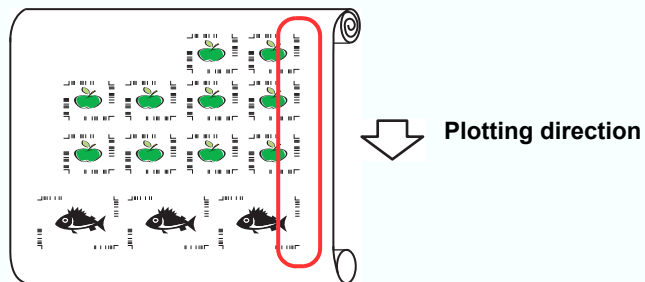


## Cutting multiple images continuously (CG-75ML only)

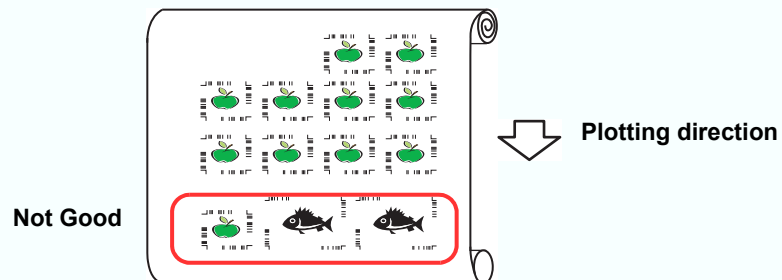
For multiple different images, the plotter automatically cuts on the accurate position with the ID pattern register mark.

**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.



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



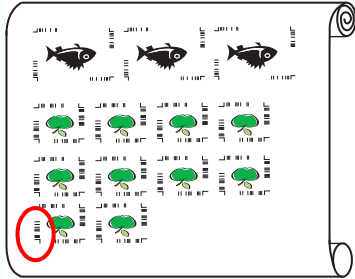
# 1

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

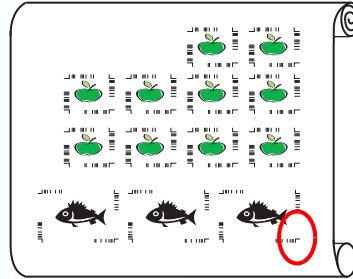
For the procedure of register mark detection, refer to the operation manual of the plotter.

**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.

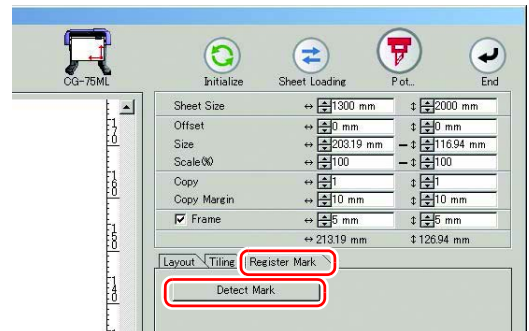


- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click  [Plot Selected Path].

# 3

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

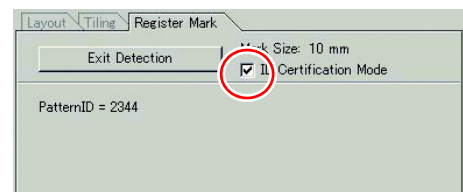
Register marks are detected.



- When cutting with ID certification mode, rotating direction is recognized automatically.

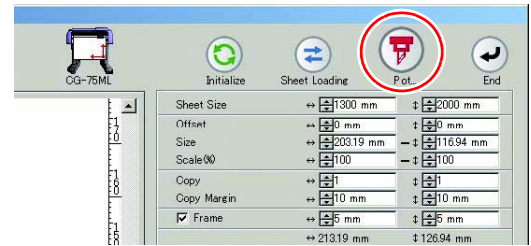
# 4

## Confirm that [ID Certification Mode] is checked.



5

Click  (Plot button).

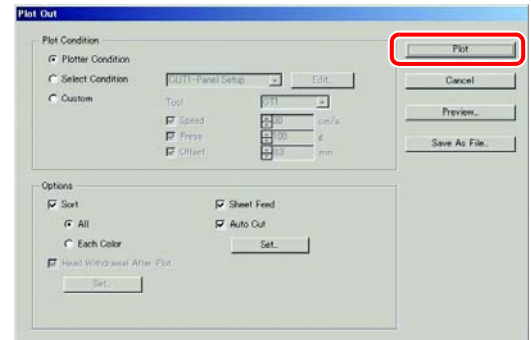


6

Click [Plot].

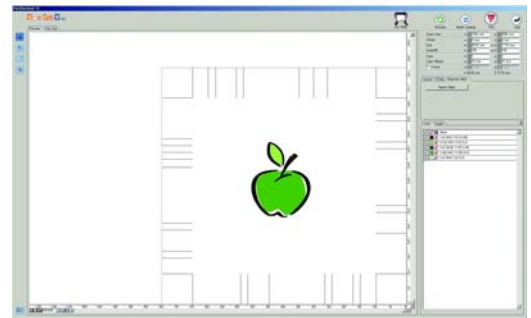
Data is sent and the plotter enters Local mode.

( P.3-19 for auto cut)



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)

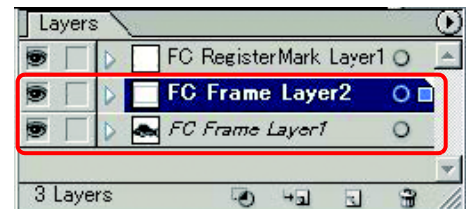
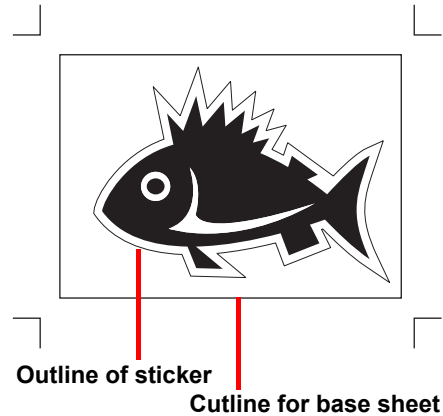
An outline of sticker and a dotted line to separate the base sheet (called HALF cut) can be cut at a time.

**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.3-7))



**2**

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

For the procedure of register mark detection, refer to the operation manual of the plotter.

**3**

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



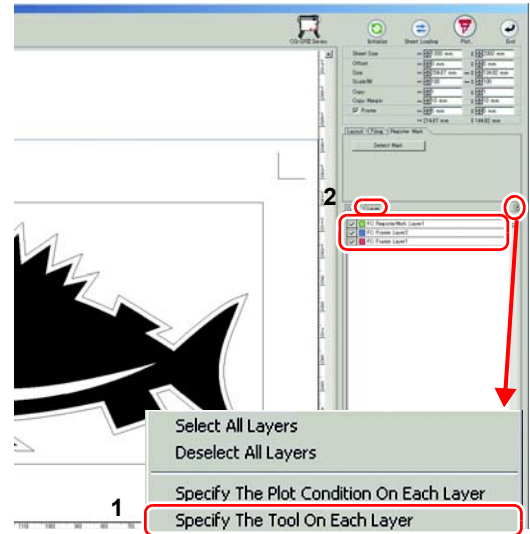
4

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].

(☞ P.5-16 for details)



5

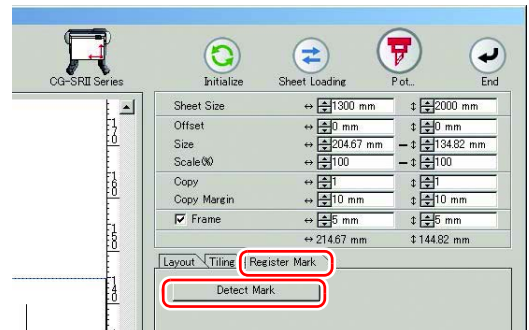
Adjust the protrusion of the cutter blade and cutting pressure for each tool.

- Adjustment of the protrusion of the cutter blade:  
Refer to “Cut pressure according to each tool” in the operation manual of the plotter.
- 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

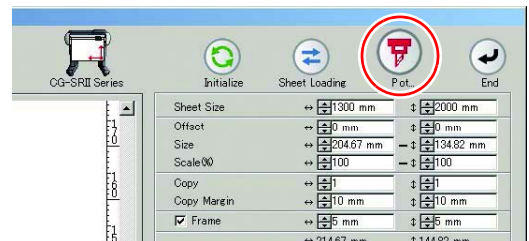
Click [Register Mark] tab and click [Detect Mark].

Register mark is detected.



7

Click  (Plot button).

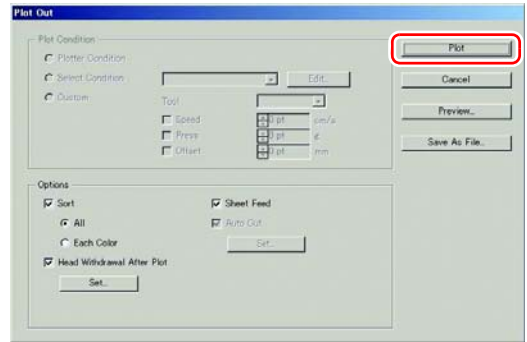


3

Creating Register Marks

8

Click [Plot] to start cutting.



9

After cutting, separate the base sheet.

## CF2/DC/CF3 series

### Cutting register marks

# 1

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

For the procedure of register mark detection, refer to the operation manual of the plotter.




- Set the light pointer to the right position depending on the mark shapes. See "Register Mark Detection Procedure" in the operation manual of each plotter for details.

# 2

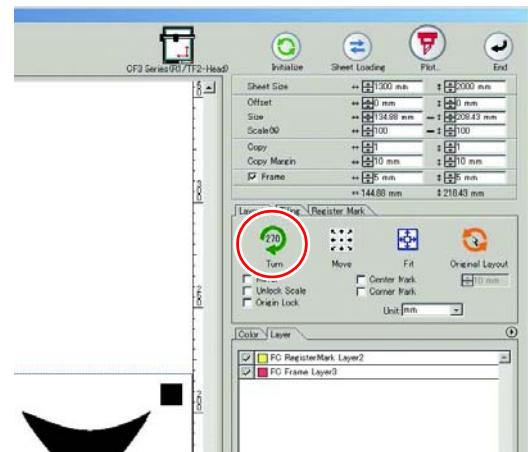
#### Click [Plot] button in the FineCut menu.



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

# 3

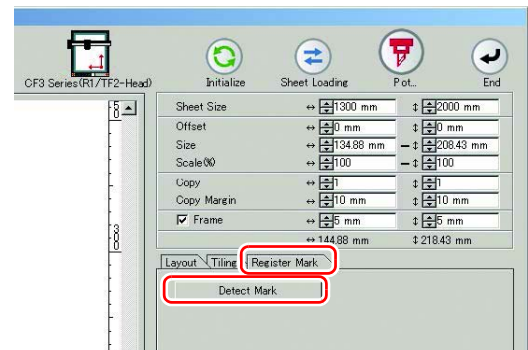
#### Click (Turn button) to adjust the direction of the image on the plotter with the display of FineCut.



# 4

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

Register mark is detected.

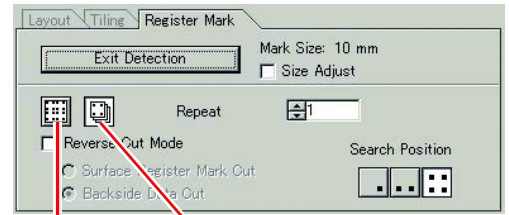



# 3

Creating Register Marks

# 5

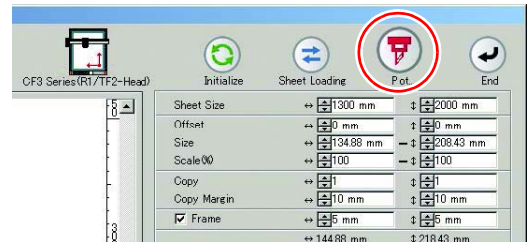
Select the cutting type.



Item	Description
<b>Size Adjust</b>	When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media.
<b>Multi Mode / Single Mode</b>	<ul style="list-style-type: none"> <li>• Multi Mode: Select when cutting plural images printed on one media.</li> <li>• Single Mode: Select when cutting sheet with one set of register mark.</li> </ul>
<b>Repeat</b>	<ul style="list-style-type: none"> <li>• If cutting continuously: Input the number of the sheet for cutting continuously.</li> <li>• If not cutting continuously: Check both directions are set to "1".</li> </ul>
<b>Reverse Cut Mode</b>	<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.3-35)</p> <ul style="list-style-type: none"> <li>• If  is selected on [Mark Shape] when creating the register marks, this function is disabled.</li> </ul>
<b>Search Position</b>	Select the search position (1/2/4 points).

# 6

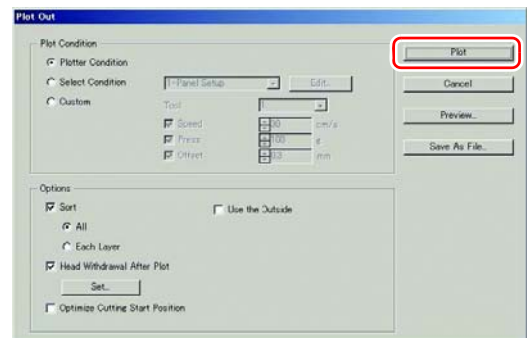
Click  (Plot button).



- 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.5-16)

# 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.

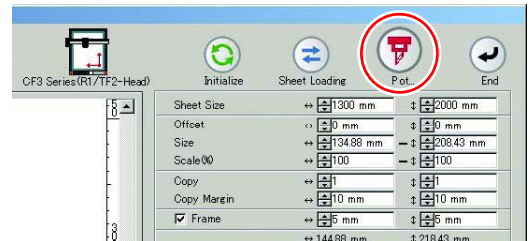
10

**Detect register marks.**

For the procedure of register mark detection, refer to the operation manual of the plotter.

11

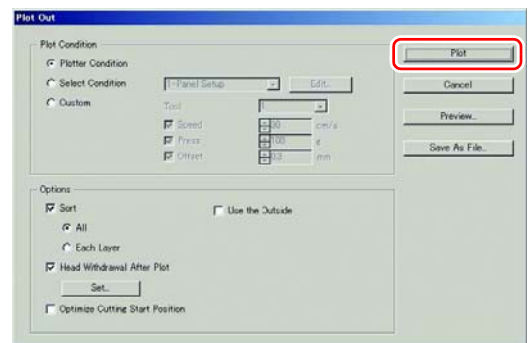
Click  (Plot button).



12

Click [Plot] to start cutting.

Repeat the step 8 to 12 for the number of the sheet.



## 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.3-9)  
If [Mark Separation] is not selected, the data cannot be cut separately.

**1**

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

**2**

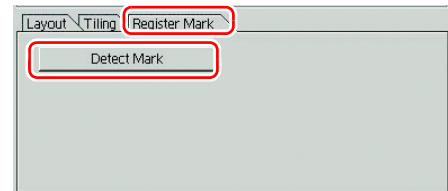
Click [Plot] button in the FineCut menu.



**3**

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

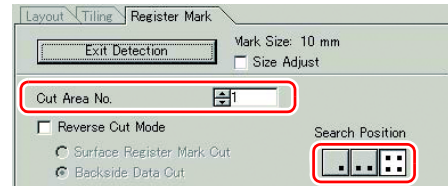
Register mark is detected.



**4**

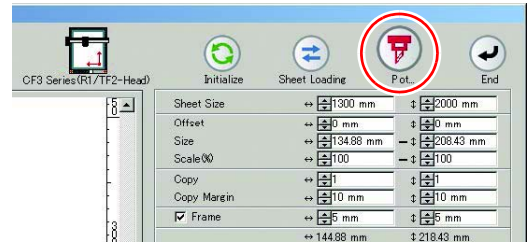
Set the register marks.

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



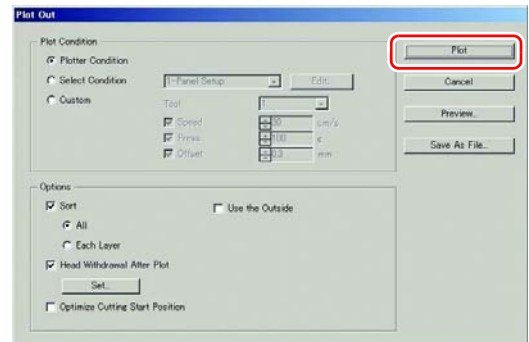
5

Click  (Plot button).



6

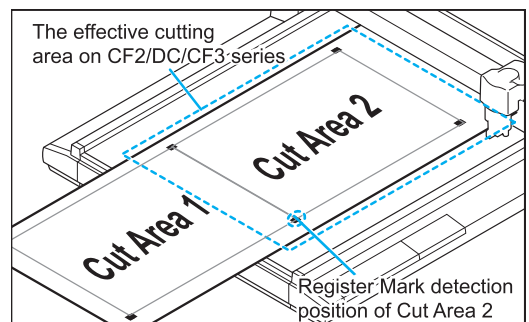
Click [Plot] to start cutting.



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

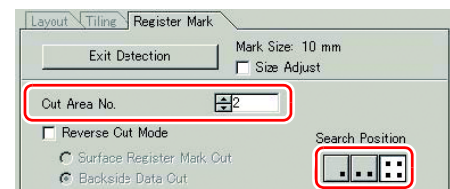
Detect register marks of the cut area "2".

For the procedure of register mark detection, refer to the operation manual of the plotter.

9

Set the register marks.

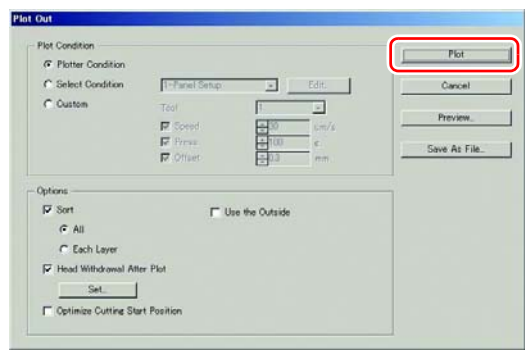
- Cut Area No.:  
Change to "2".
- Search Position:  
Select the search position of the register mark (1 / 2 / 4 points).



**10** Click  (Plot button).



**11** Click [Plot] to start cutting.  
Repeat the Step 7 to 11 for each of the divided register mark.




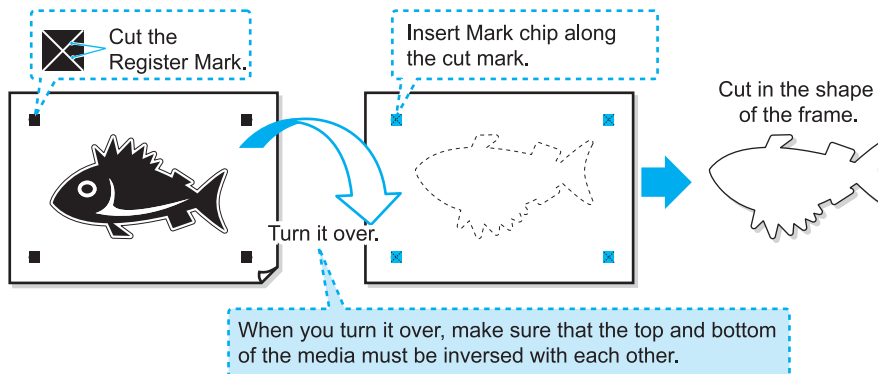
## Cutting from the reverse side

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.
- 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 the procedure of register mark detection, refer to the operation manual of the plotter.

# 2

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

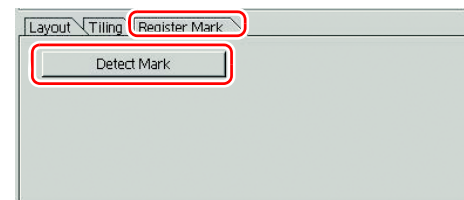


- When an unnecessary object to cut exists on Illustrator, select objects to be cut and register marks, and click  [Plot Selected Path].

# 3

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

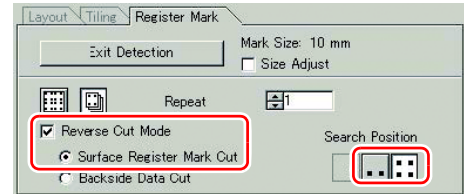
Register mark is detected.




# 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).

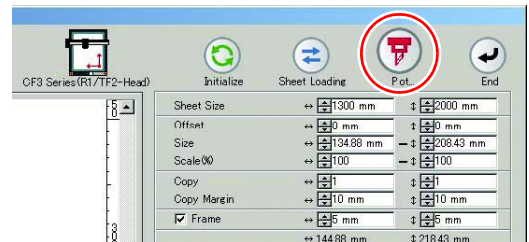


**Important!**

- 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.

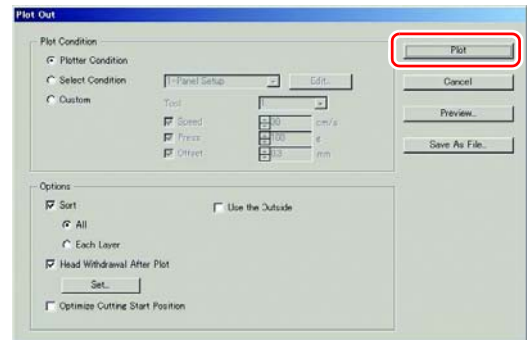
# 5

## Click (Plot button).



# 6

## Click [Plot] to start cutting.



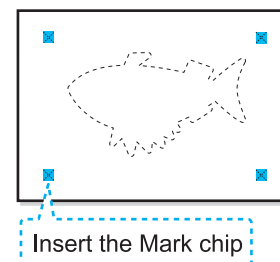
# 7

## 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

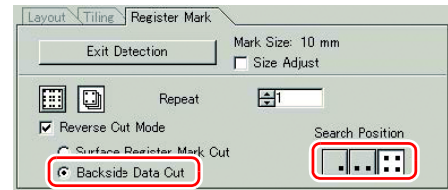
## Detect register marks.

For the procedure of register mark detection, refer to the operation manual of the plotter.

10

**Set the reverse cutting.**

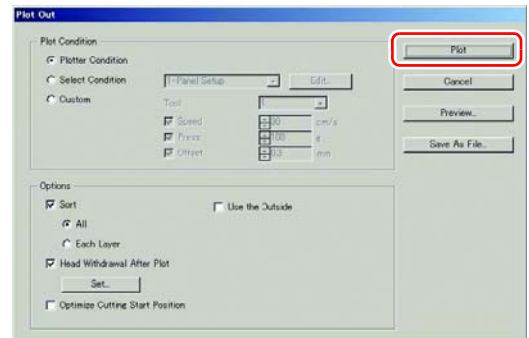
- Reverse Cut Mode:  
Check and select [Backside Data Cut].  
The read data is displayed upside down.
- Search Position:  
Select the search position of the register mark (1 / 2 / 4 points).



11

**Click  (Plot button).**

12

**Click [Plot] to start cutting.**

# CFL-605RT

## Cutting register marks

1

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

For the procedure of register mark detection, refer to the operation manual of the plotter.




- Set the light pointer to the right position depending on the mark shapes. See “ Register Mark Detection Procedure “ in the operation manual of each plotter for details.

2

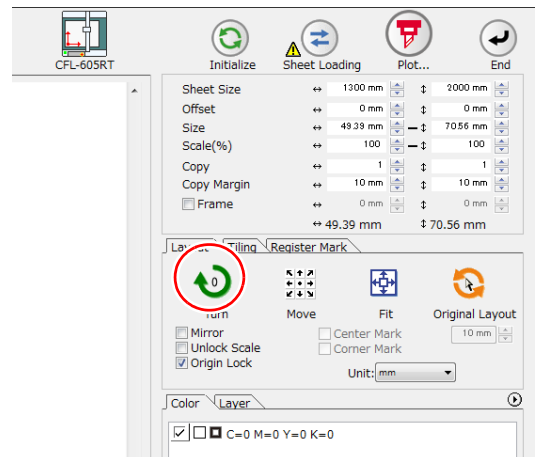
**Click [Plot] button in the FineCut menu.**



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

3

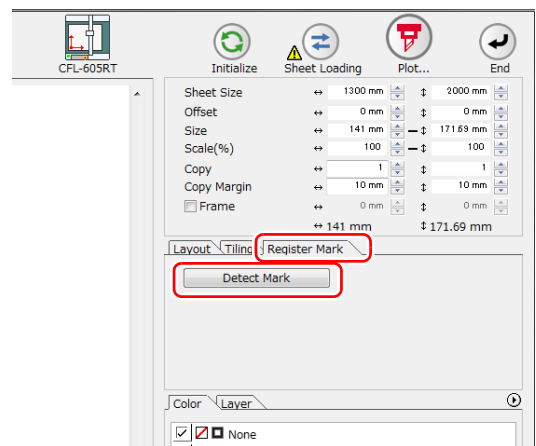
**Click  (Turn button) to adjust the direction of the image on the plotter with the display of FineCut.**



4

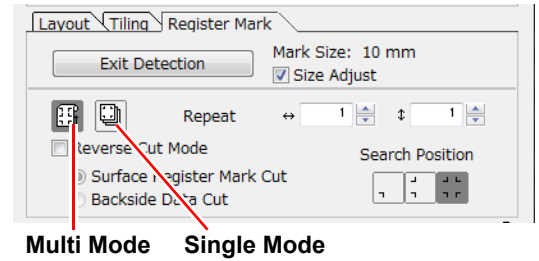
**Click [Register Mark] tab and click [Detect Mark].**

Register mark is detected.



5

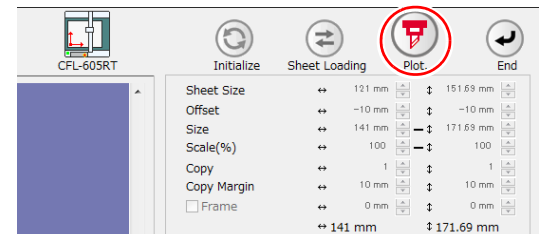
Select the cutting type.



Item	Description
<b>Size Adjust</b>	When the size of an actual image and a printed image are different, check this to cut a frame aligning with the printed media.
<b>Multi Mode / Single Mode</b>	<ul style="list-style-type: none"> <li>• Multi Mode: Select when cutting plural images printed on one media.</li> <li>• Single Mode: Select when cutting sheet with one set of register mark.</li> </ul>
<b>Repeat</b>	<ul style="list-style-type: none"> <li>• If cutting continuously: Input the number of the sheet for cutting continuously.</li> <li>• If not cutting continuously: Check both directions are set to "1".</li> </ul>
<b>Reverse Cut Mode</b>	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.3-35)
<b>Search Position</b>	Select the search position (1/2/4 points).

6

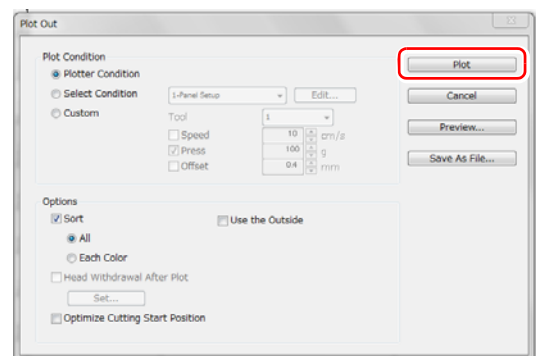
Click  (Plot button).



- 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.5-16)

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.

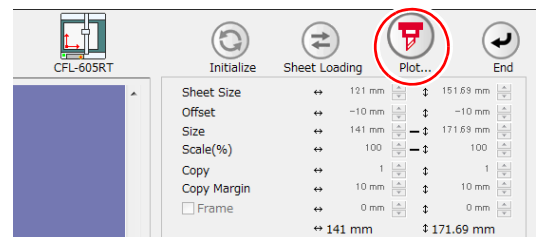
10

**Detect register marks.**

For the procedure of register mark detection, refer to the operation manual of the plotter.

11

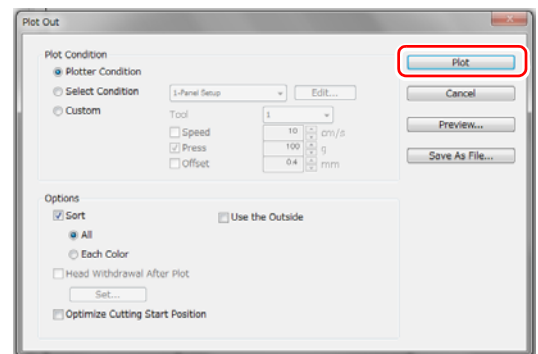
Click  (Plot button).



12

Click [Plot] to start cutting.

Repeat the step 8 to 12 for the number of the sheet.



## 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.3-13)  
If [Mark Separation] is not selected, the data cannot be cut separately.

**1**

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

**2**

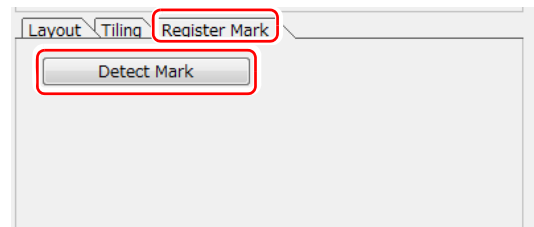
Click [Plot] button in the FineCut menu.



**3**

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

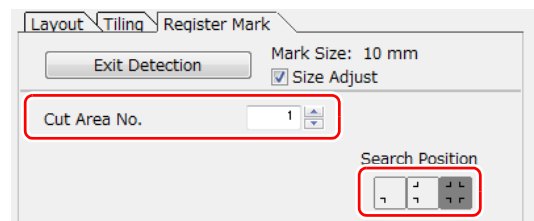
Register mark is detected.



**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).

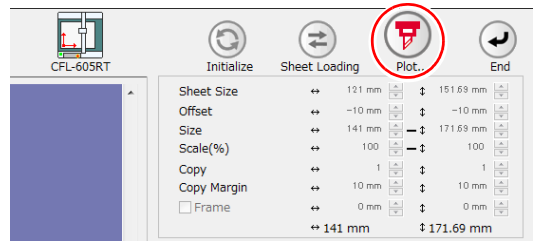


**3**

Creating Register Marks

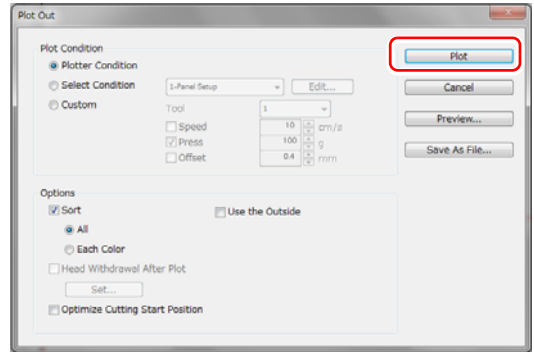
5

Click  (Plot button).



6

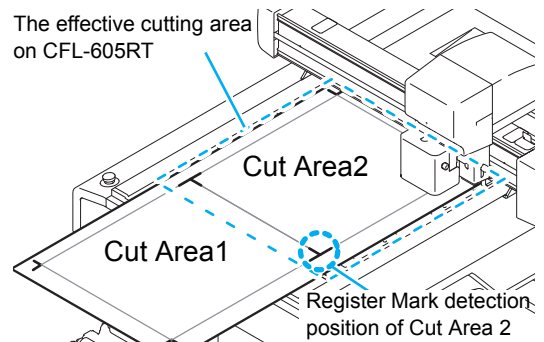
Click [Plot] to start cutting.



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

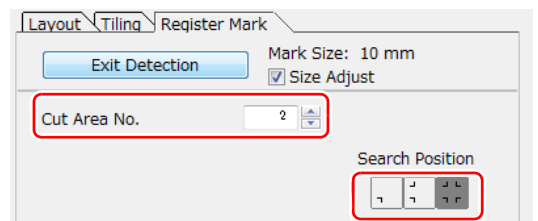
Detect register marks of the cut area "2".

For the procedure of register mark detection, refer to the operation manual of the plotter.

9

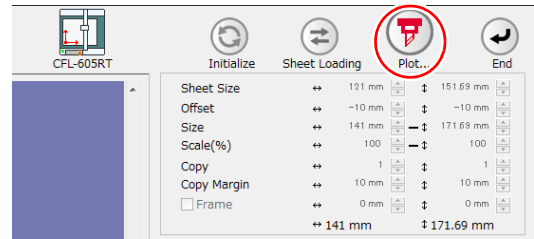
Set the register marks.

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



10

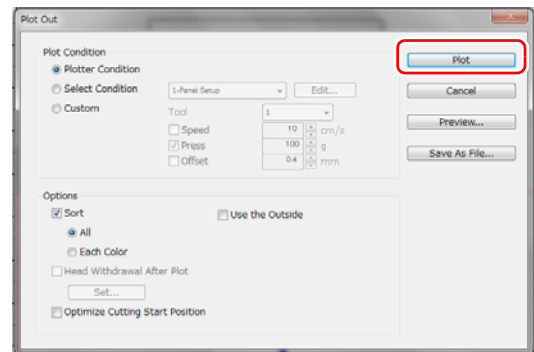
Click  (Plot button).



11

Click [Plot] to start cutting.

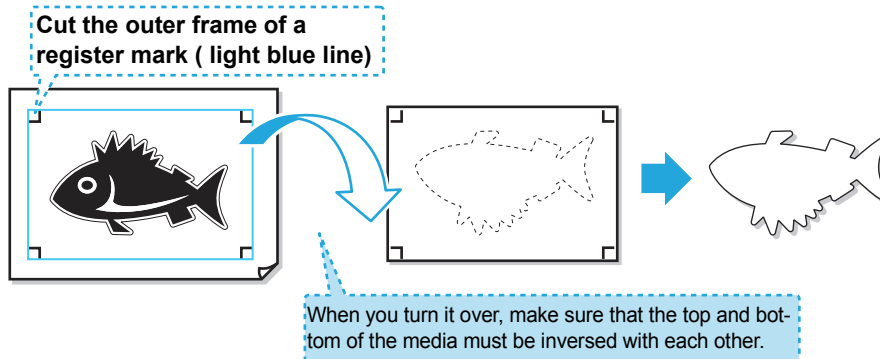
Repeat the Step 7 to 11 for each of the divided register mark.



## Cutting from the reverse side

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

Use this 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 "cut offset" of plotter. Setting of cut offset is always required for the first time reverse cut and resetting by removing "work guide. Every setting is not required.
- To set the cut offset, specify the tool of this offset cut (reads the surface register mark and cut to square).
- For more information, refer the instruction manual of the plotter.

**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].

Register mark is detected.



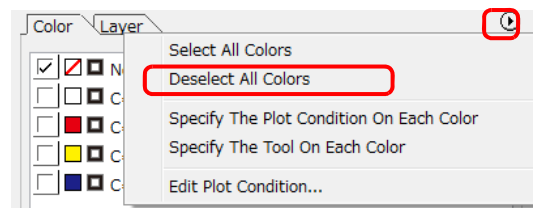
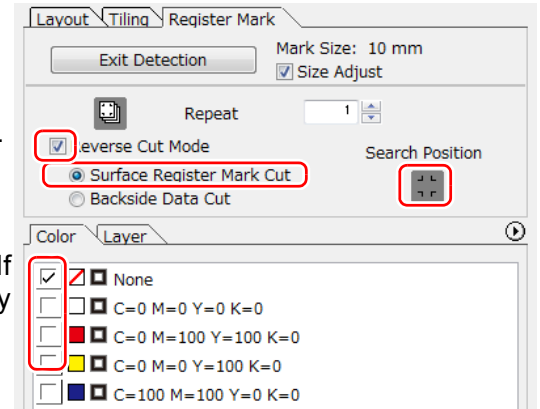
# 3

## Set the reverse cutting.

- Reverse Cut Mode:  
Check and select [Surface Register Mark Cut].
- Search Position:  
Search position of register mark is only four points.
- Color / Layer cut selection  
Select the pass to cut on the surface. If uncheck the pass, the pass in preview display also will not be displayed.



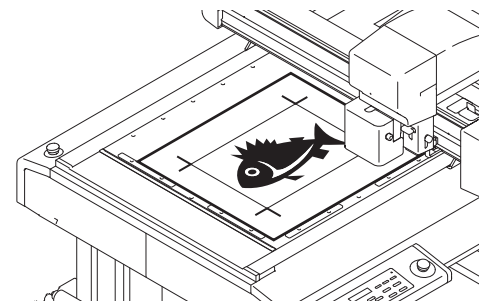
- If nothing is cut at the surface, click the triangle button in the upper right-hand corner, and select "Deselect All Colors" in the menu. All checks will be turned OFF.
- Even if there is no data to be cut at the surface, detects register mark 4 points, and cut out a square around the register mark.



# 4

## Set the work to the plotter in the same orientation as the preview display, do the mark detection.

For the procedure of register mark detection, refer to the operation manual of the plotter.

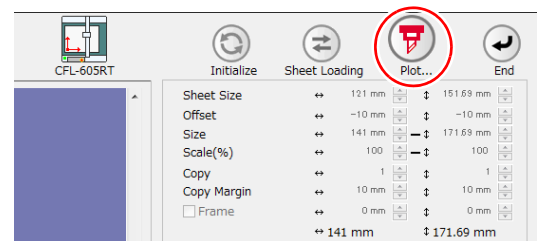


# 5

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

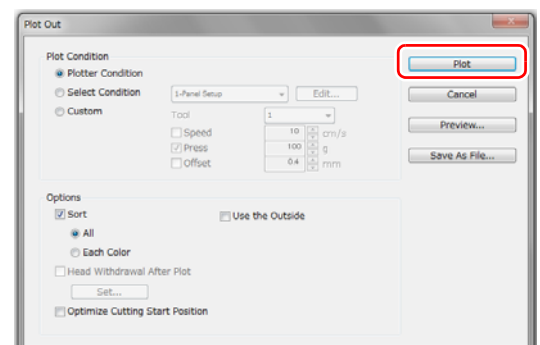
# 6

## Click (Plot button).



# 7

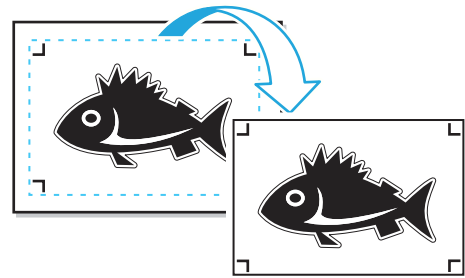
## Click [Plot] to start cutting.



# 8

## The surface cut cuts out a square around the dragonfly

Output conditions in the case of cutting this square is set in the plotter side.



# 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.

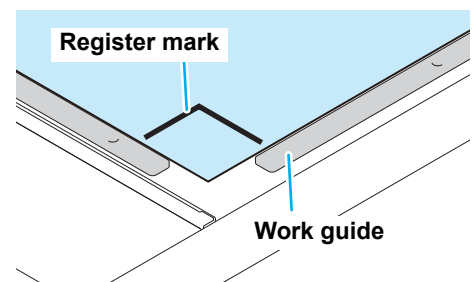
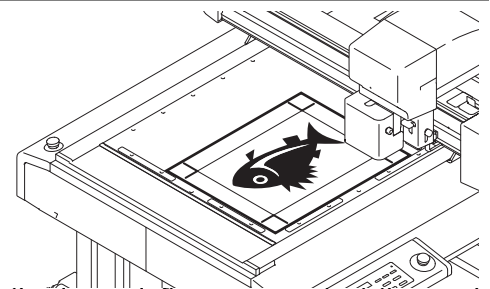
# 10

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

- When cut the reverse, it will be opposite to the printing surface. (Upside down)
- Cut out square with the surface 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.



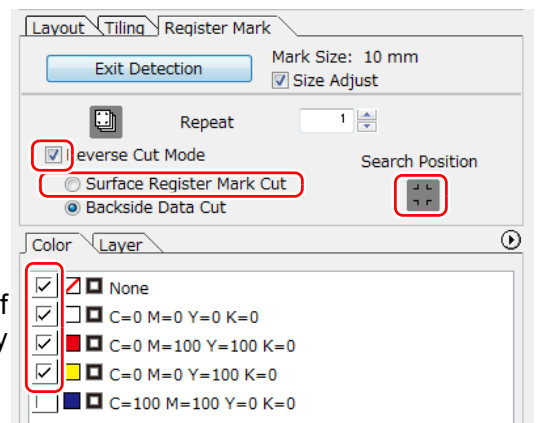
# 11

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

# 12

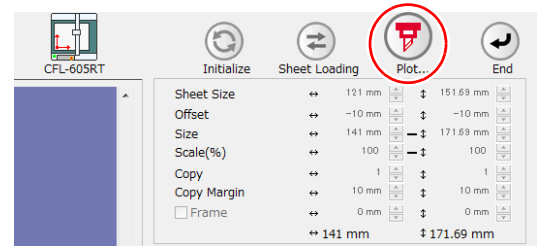
## Set the reverse cutting.

- Reverse Cut Mode:  
Check and select [Backside Data Cut].  
The read data is displayed upside down.
- Search Position:  
No mark detection is performed at reverse cut.
- 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

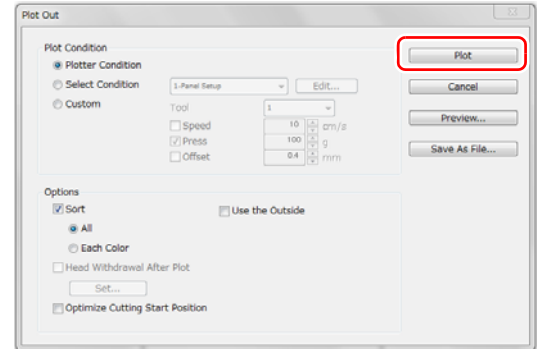
Click  (Plot button).



14

Click [Plot] to start cutting.

[If set a single leaf copy]  
 Surface cut the number of copy sheets in step 4 and step 5.  
 Reverse cut the number of copy sheets in step 10 and step 11.



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



# CHAPTER 4

## Advanced operations-from FineCut Menu



This section describes the convenient usage from FineCut menu.

FineCut menu



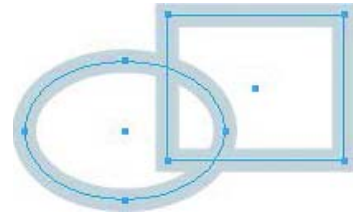
Recognizing Stroke Weight and Overlap.....	4-2
Trapping .....	4-3
Joining Paths .....	4-4
Making a Precut Line around an Object .....	4-6
Creating Shadow / Edge.....	4-8
Importing / Outputting Plot File .....	4-10
Extracting the Outline .....	4-12
Outputting to RasterLink (CJV30/TPC/CJV300/ CJV150 series).....	4-14
Setting Output Condition .....	4-20
Separating and Cutting Lines (CFL-605RT/CF/DC/ CF2/CF3 (except M-Head) series) .....	4-22

# 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.



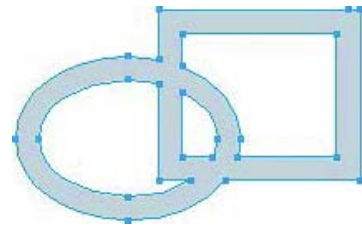
2

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.

**1**

Select an object on Illustrator.



**2**

Click [Trapping] button in the FineCut menu.



**3**

Set the trap size and overlapping order.

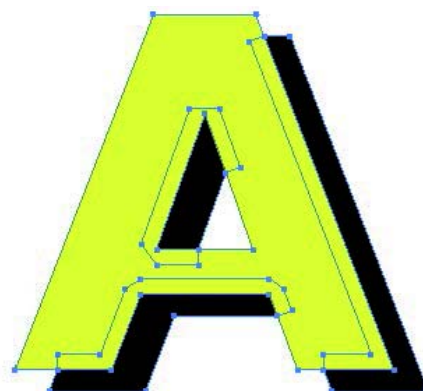
Click [OK] after setting.

- Drag the list to change the overlapping order.



**4**

Overlap space is created in the specified size.



**4**

Advanced operations - from FineCut Menu

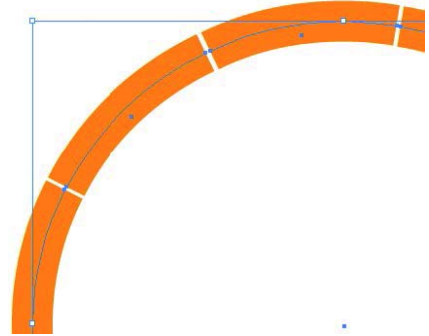
# Joining Paths

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. If cutting this, pen-up occurs on every line. With CF3 series (M-Head), it cannot cut considering the endmill diameter.

Joining paths solves these problems.

**1**

**Select the all paths to be joined on Illustrator.**



**2**

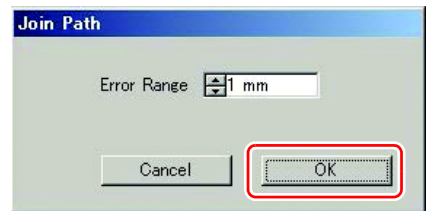
**Click [Join Path] button in the FineCut menu.**



**3**

**Set the distance between the corner points to be joined.**

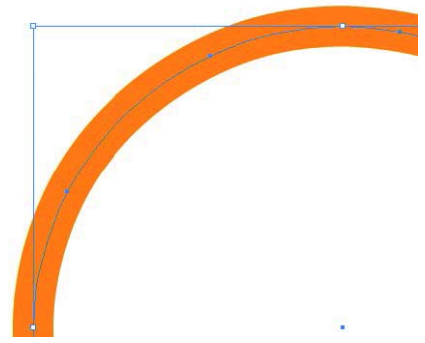
Click [OK] after setting.



- 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.



4

# 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.



• 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].

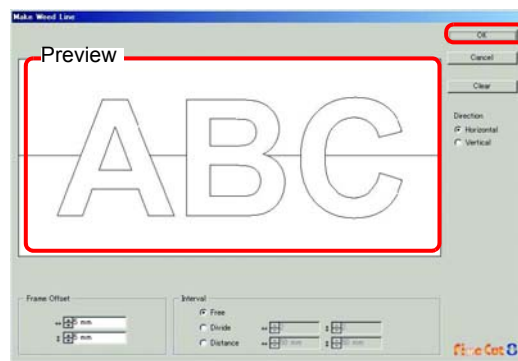
**1** Select an object on Illustrator.



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



**3** Set the Weed Line.  
After setting, click [OK].

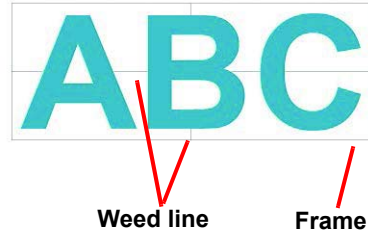


Item	Description	
Preview	Check the position and the number of weed lines.	
Frame Offset	Set the distance between the object and the frame.	
Interval	Free	Make the line on the needed position with the needed numbers. Select the direction of the line in [Direction], and click on the preview to make the 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

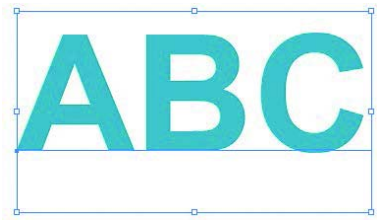


- To delete the created weed line, select [File]-[FineCut]-[Remove Weed Line] on Illustrator.

# Creating Shadow / Edge

Create a shadow / edge of an object.

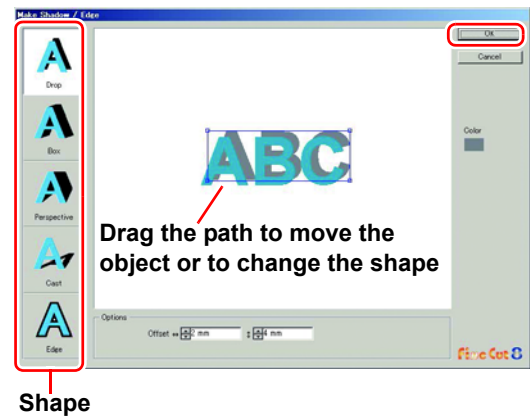
**1** Select an object on Illustrator.



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



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

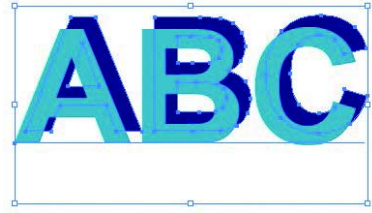


Item	Description
Shape	Select shadow type (4types) or edge.
Options	Set the offset distance between the object and the shadow / edge. For "Perspective", set the perspective by %. For "Edge", set the shape of the corner and the ratio. (☞ P.3-4 "Making a Frame (Cutting Line)" for reference.)
Color	Set 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

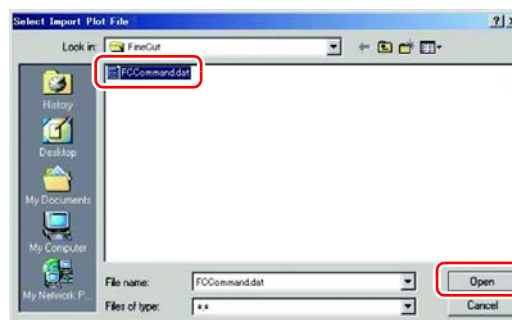
## Importing a plot file

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].



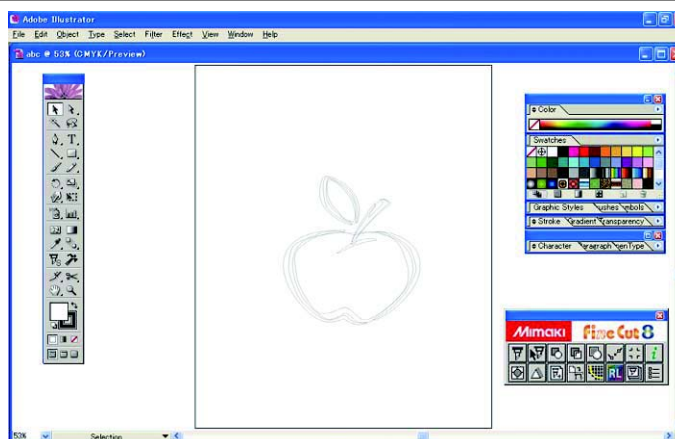
- The importable plot commands are MGL-IC, MGL-IIC, and HP-GL.

- 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.

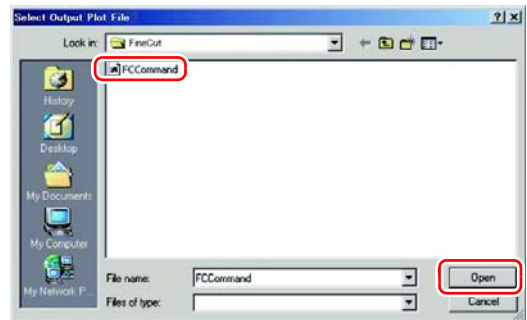
## Outputting a plot file

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].



# 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.

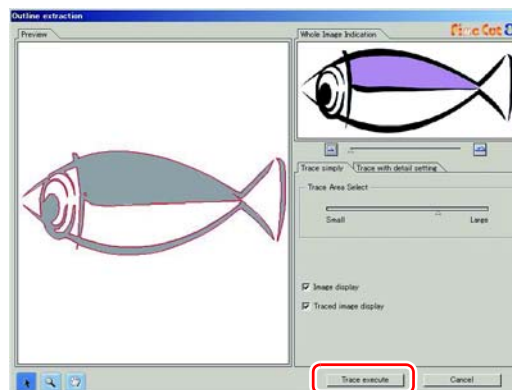


3

Click [Trace execute] button.

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

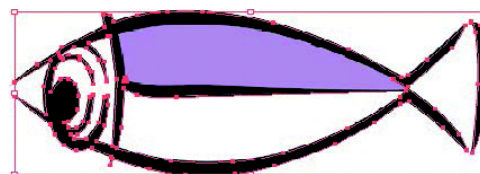
(☞ P.7-30 for other items)



- 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.5-16)
- 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.

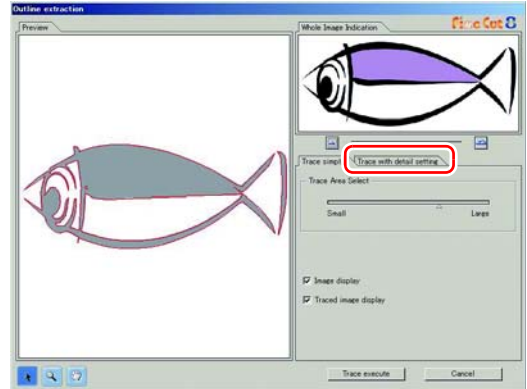


## Trace with detail setting

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.

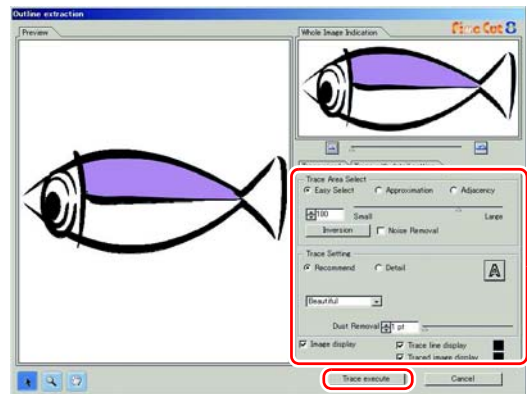


2

Set the tracing and click [Trace execute] button.

Select the tracing area and set the tracing while checking the preview.

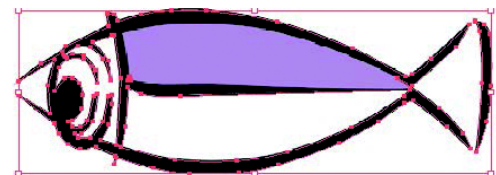
(☞ P.7-30 for other items)



- 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.5-16)
- 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.



4

# Outputting to RasterLink (CJV30/TPC/CJV300/CJV150 series)

When using CJV30/CJV300/CJV150 series or TPC, data can be easily printed & cut linking FineCut with RasterLink.

(It supports RasterLink Pro 4 or later)



- 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.

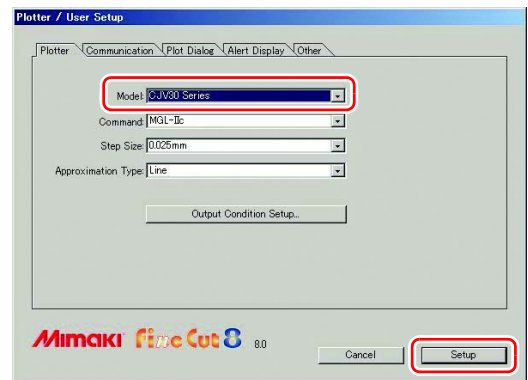
## 2

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



## 3

### Select CJV30/CJV300/CJV150 series or TPC on [Model].



- When a model other than CJV30/CJV300/CJV150 series or TPC is selected, an error appears when clicking [Output to RasterLink] on the next step.

## 4

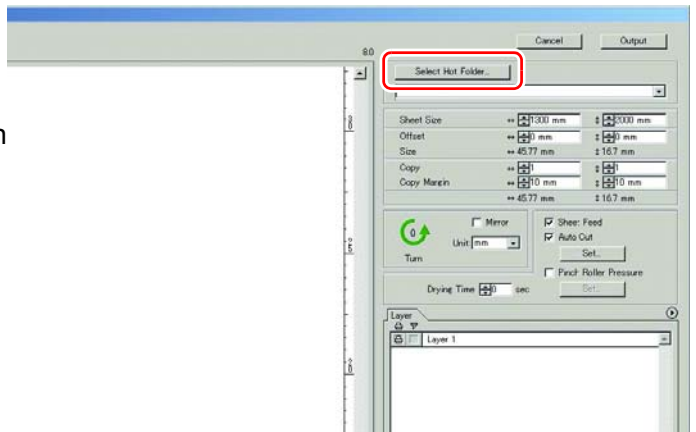
### Click [Output to RasterLink] button in the FineCut menu.



5

Click [Select Hot Folder...].

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



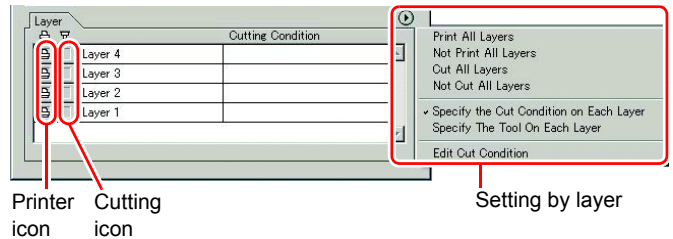
Important!

- 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.4-18 for setting cut layers)



Printer icon      Cutting icon

Setting by layer

Item	Description
<b>Printer icon</b>	Click to put a mark on the printing layer.
<b>Cutting icon</b>	Click to put a mark on the cutting layer.
<b>Setting by layer</b>	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.
- 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/CJV150 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.3-7 )  
(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.3-7 )
- 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.

# 7

## Set the other items if needed.

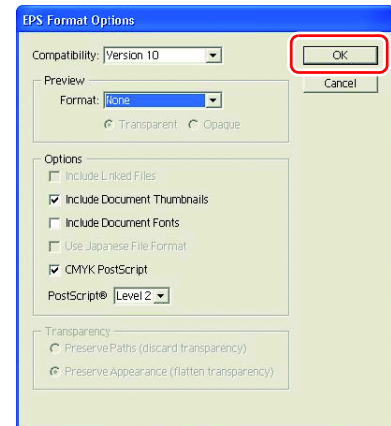
(☞ P.7-33)

# 8

## Click [Output], then set EPS.

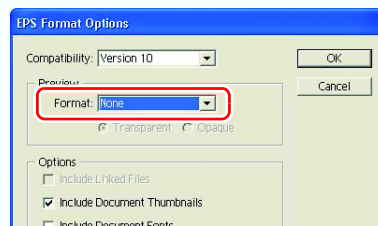
Click [OK] to send the data to RasterLink.

EPS setting varies from the Illustrator version used.  
The display shown on the right is for Illustrator 10.

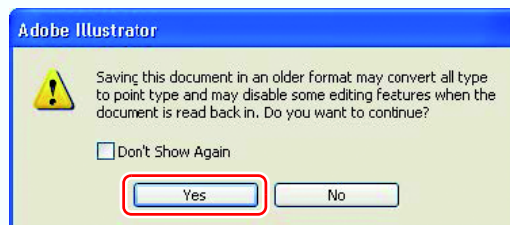


**Important!**

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



- For Illustrator CS, a message below appears after clicking [OK] button. It is no problem. Select [Yes].



**9**

**Execute printing & cutting on RasterLink.**

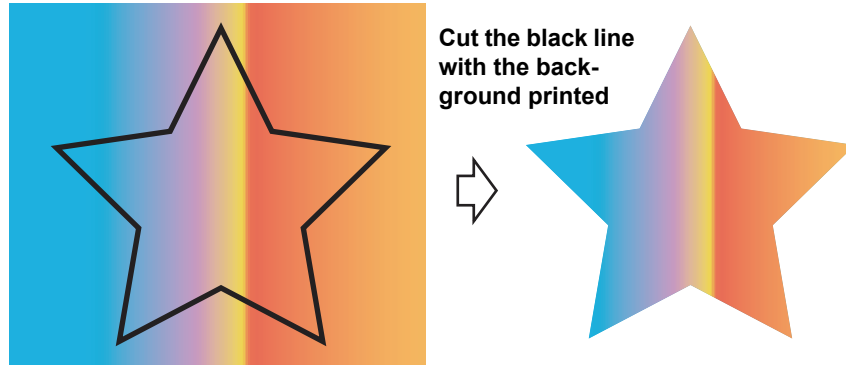
For details, see the RasterLink Reference Guide.

# 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.



Cut the black line with the background printed

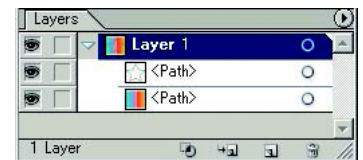
1

## Open an object on Illustrator.

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



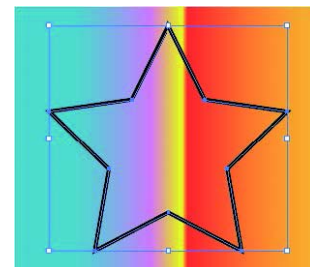
Layers palette



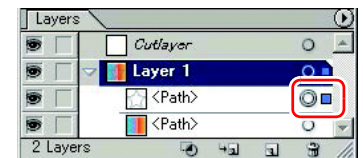
2

## Click a path to be cut.

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



Layers palette



3

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

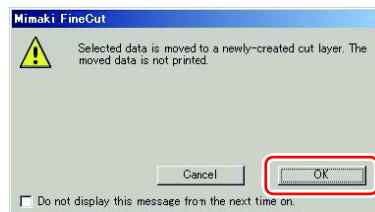


4

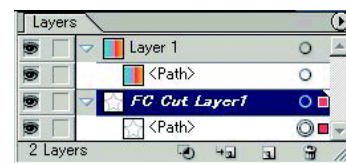
Click [OK] to set the path for cutting.

[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



4

# Setting Output Condition

Output condition can be set by the media used.

**Important!**

- This function is valid only for the MGL-IIc commands.
- If any setting value exceeds the limit of the plotter, the object is plotted with the limit of the plotter. For the limit, refer to the Operation Manual of the plotter.



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

**1**

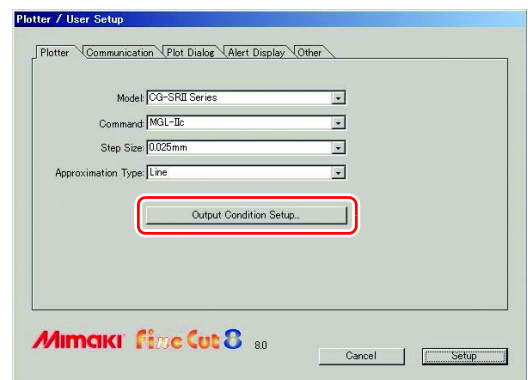
Click [Plotter / User Setup...] button in the FineCut menu.



**2**

Click [Output Condition Setup...].

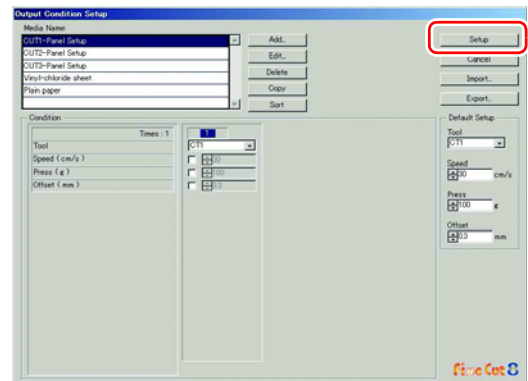
Alternatively, click [Edit] button in the Plot Out screen.



**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 [Setup]. (☞ P.7-5)



**4**

Click [Plot] button in the FineCut menu.




**5**

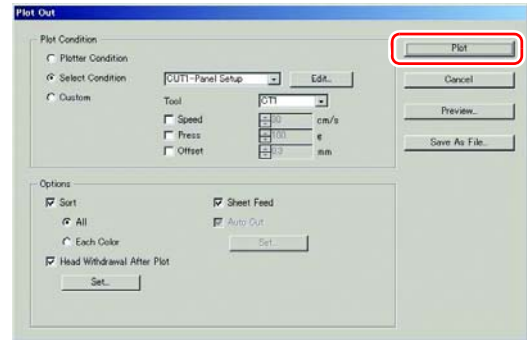
Click  (Plot button) on Plot screen.



## 6

## Set the plot condition and click [Plot].

( P.7-27 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.

# Separating and Cutting Lines (CFL-605RT/CF/DC/CF2/CF3 (except M-Head) series)

**Important!**

- This function can be used on CF series (CF/DC/CF2/CF3 (except M-Head)). 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.

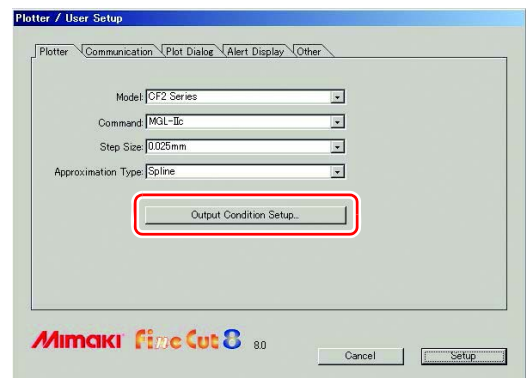
**2**

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



**3**

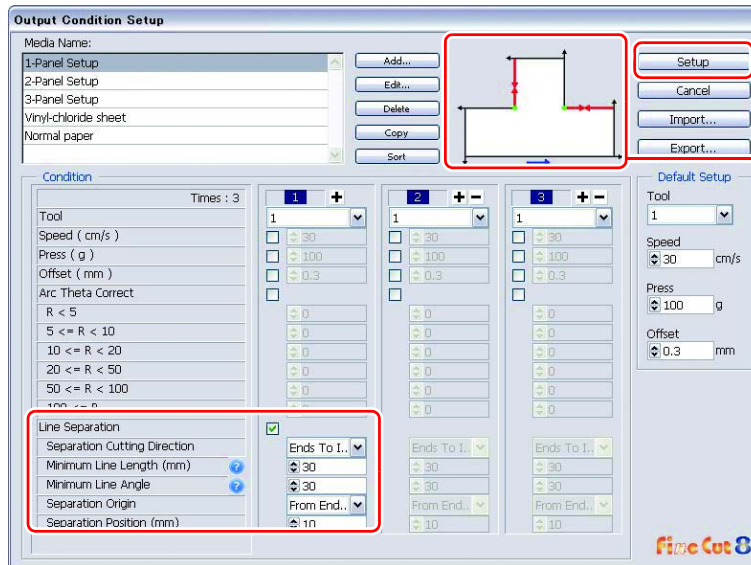
Click [Output Condition Setup...].



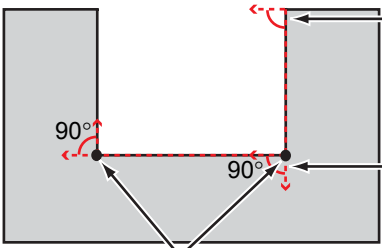
# 4

## Set the line separation.

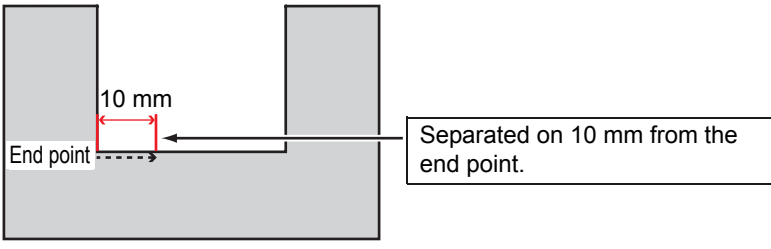
After setting, click [Setup].



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

Item	Description
<b>Line Separation</b>	Check this.
<b>Separation Cutting Direction</b>	Select cutting direction of a separated line. Select according to the blade used. (☞ P.4-26)
<b>Minimum Line Length (Default: 30 mm (recommended))</b>	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.)
<b>Minimum Line Angle (Default: 30 degrees (recommended))</b>	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 used <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <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> <p>Not to cut these points, the line is separated.</p> </div> </div>
<b>Separation Origin</b>	Set the origin position of the separating line.

# 4

Item	Description
<b>Separation Position</b>	Set the separating position of lines as a distance from [Separation origin].  

**5** Click [Plot] button in the FineCut menu.



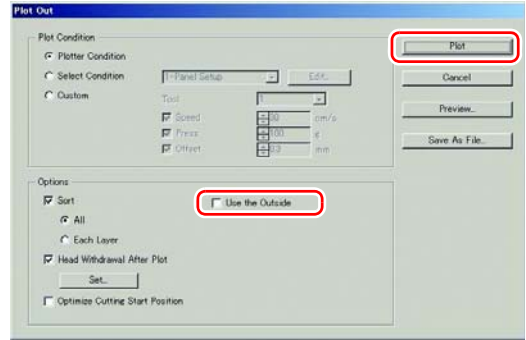
**6** Click  (Plot button).



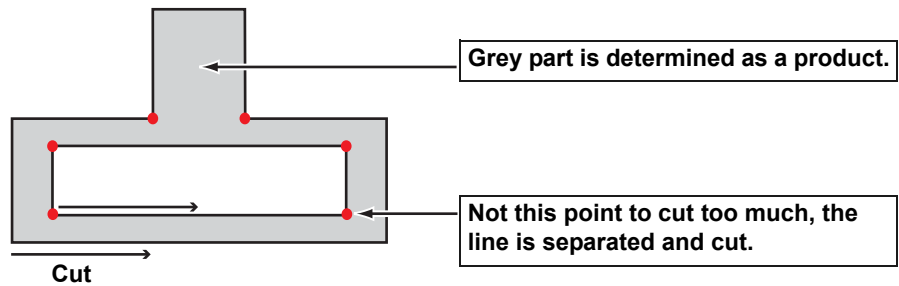
**7**

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

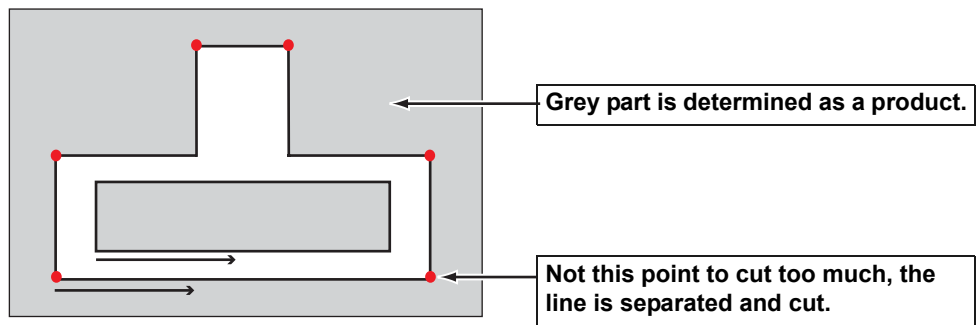
The plotter determines as below depending on the setting, and cuts with the line separated.



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




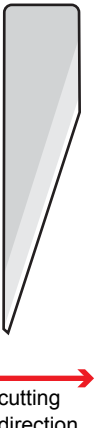
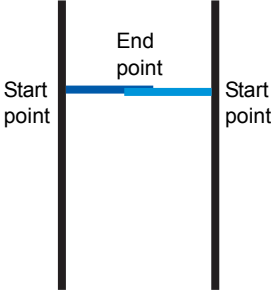
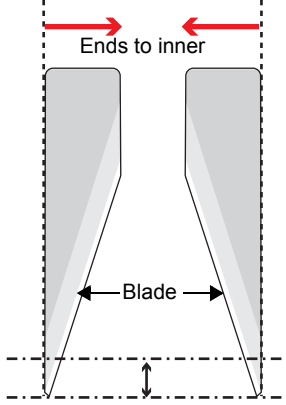
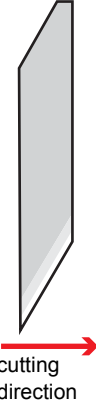
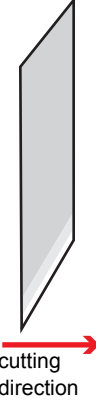
If checked on [Use the Outside]

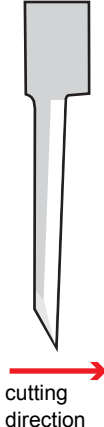
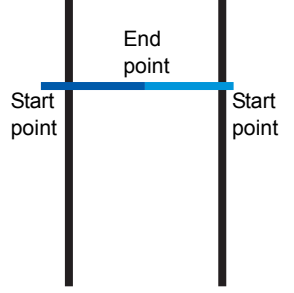
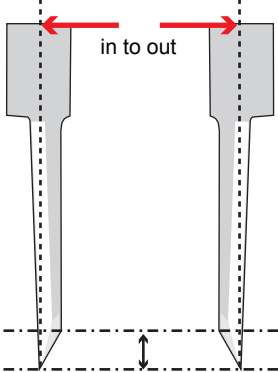


## The blade shapes and the setting of line separation

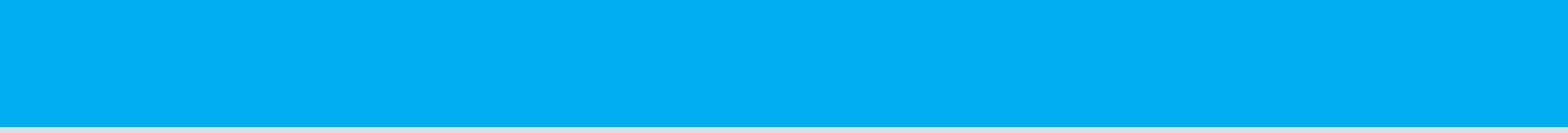
When cutting with a line separated, set referring to the example below to meet the the shape of the blade used.

For adjustment of eccentricity, see the Operation Manual of the plotter.

Blade used	Product Code	Shape	Adjusted eccentricity value and Test cut pattern	Cutting direction with the line separated (  P.4-22)
Carbide, 17°	SPB-0065		(For carbide 17°)   Adjust the value not the horizontal/vertical lines of the Test pattern A to protrude or gap. <ul style="list-style-type: none"> <li>• If protruded: Enter the protruded value by negative value.</li> <li>• If gapped: Enter the gapped value by positive value.</li> </ul> By adjusting as above, the horizontal lines overlap at the end point.	Ends To Inner (No uncut part) 
Carbide, 30°	SPB-0045			
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			
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.4-22)
Carbide, 2°	SPB-0064		 <p>Adjust the value to meet the horizontal lines of the Test pattern A at the end point.</p> <ul style="list-style-type: none"> <li>• If lines overlap: Enter the overlapped value divided by 2 by positive value.</li> <li>• If gapped at the end point: Enter the gapped value divided by 2 by negative value.</li> </ul> <p>By adjusting as above, the horizontal lines protrude from the vertical line at the start point.</p>	<p>In to out (No uncut part because the blade top comes to the end point.)</p> 

4



# 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 menu.

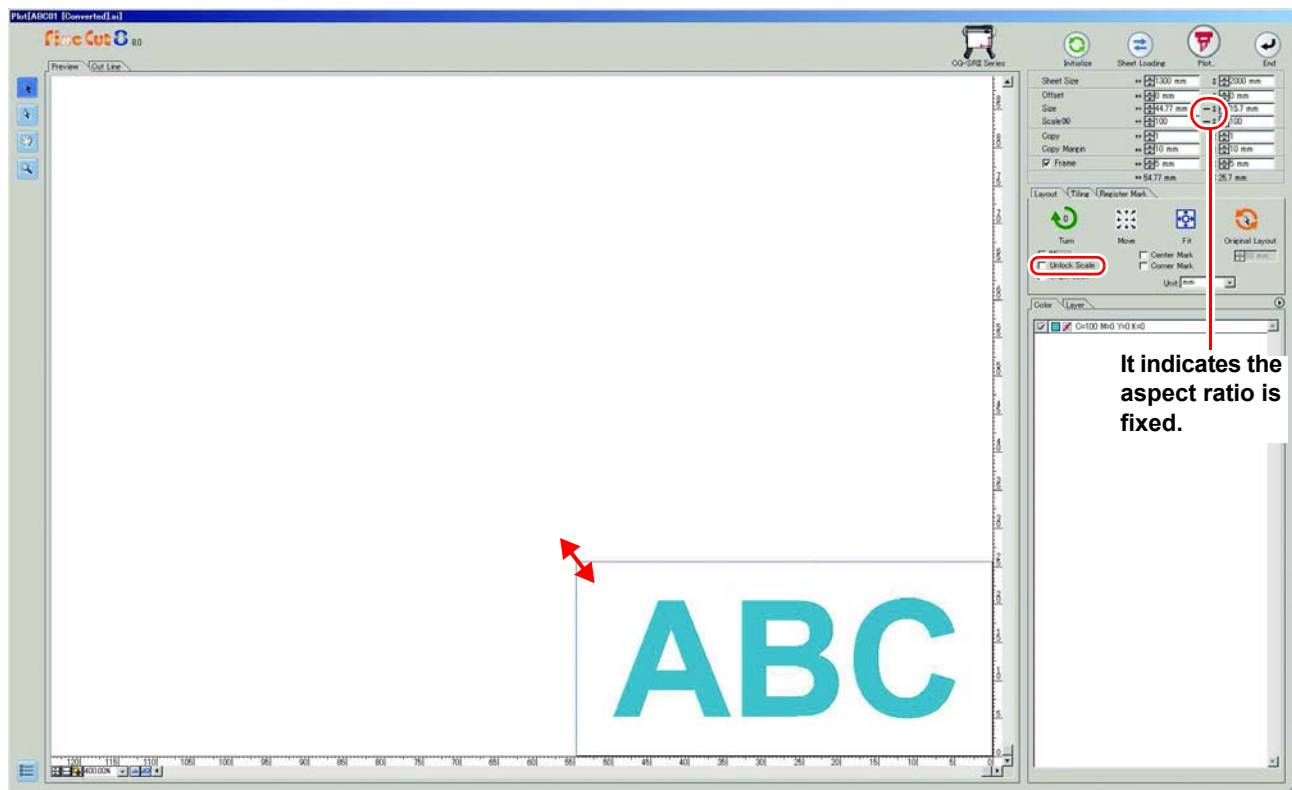


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# Scaling an Object

## Scaling an object with a fixed aspect ratio

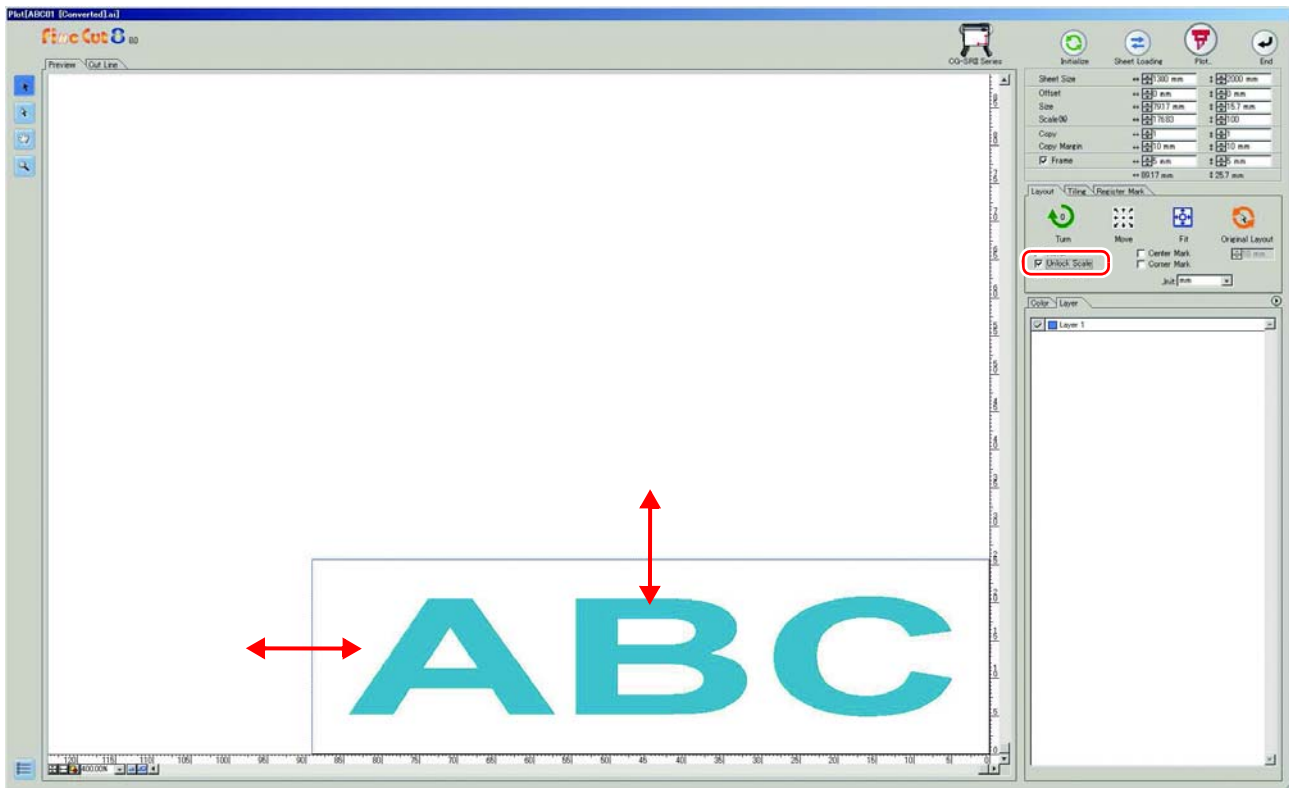
Click to uncheck [Unlock Scale] on the Layout tab.  
Scale an object as dragging a corner of the object.



## Scaling only width or length of an object

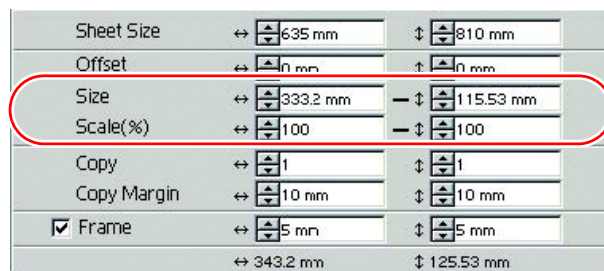
Check [Unlock Scale] on the Layout tab.

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



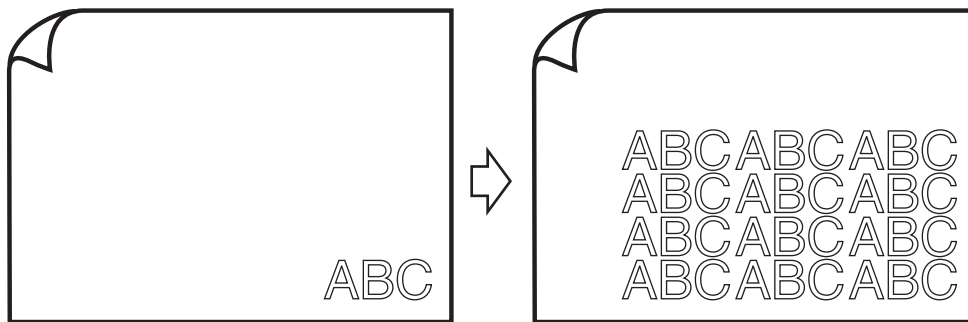
- To scale an object with the aspect ratio retained, check [Unlock Scale], and then drag the object as holding down the Shift key of the keyboard.
- To scale an object with the changed aspect ratio retained, change the width and length separately, and then uncheck [Unlock Scale].

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.

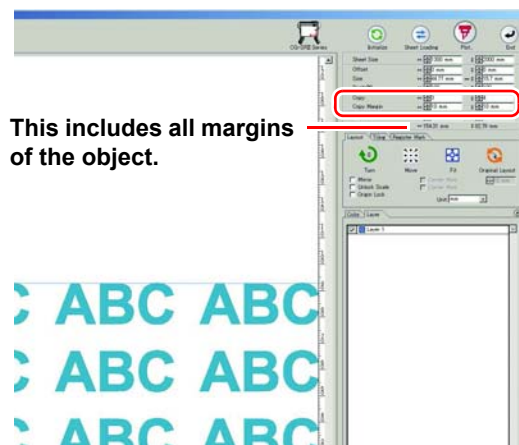


1

## 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.

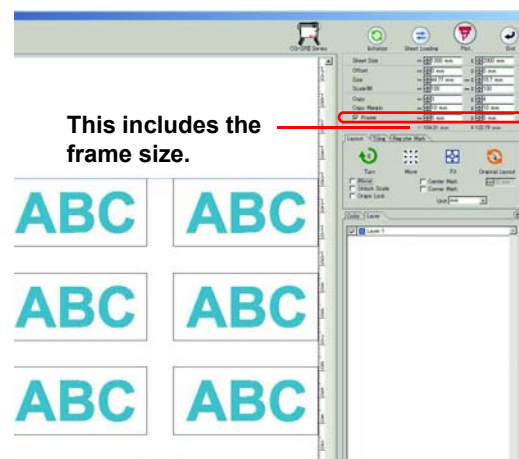


2

## 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 [CF3 series (M-Head)] is selected on Plotter / User Setup screen, note the followings. Set [Copy Margin] to 10 mm or more. Frame cannot be created.

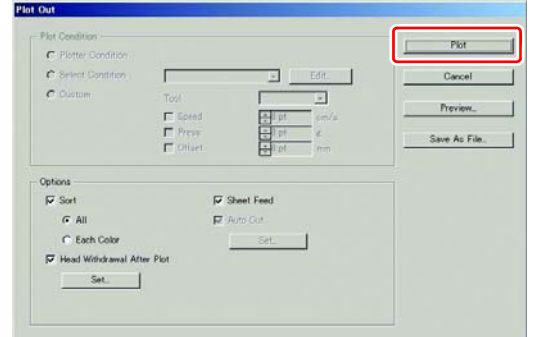
3

Click  (Plot button).



4

Click [Plot] to start cutting.

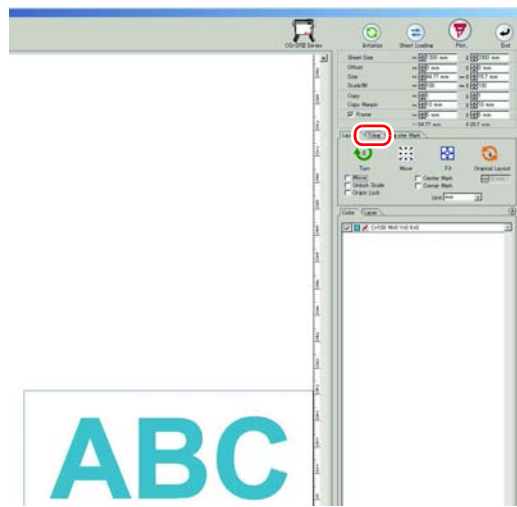


# Dividing and Cutting an Object (Tiling)

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".

**1**

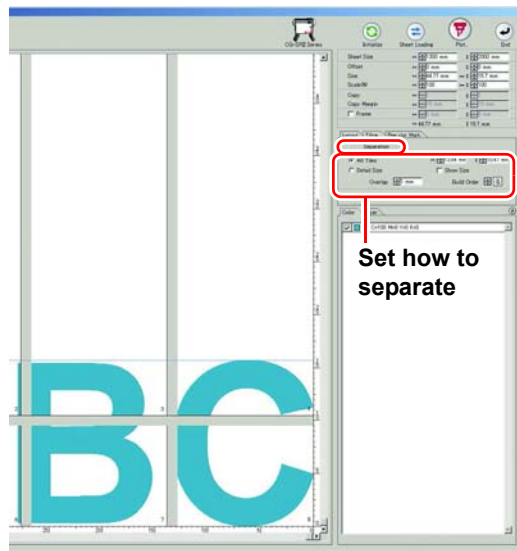
Click [Tiling] tab.



**2**

Set how to separate, and click [Separation].

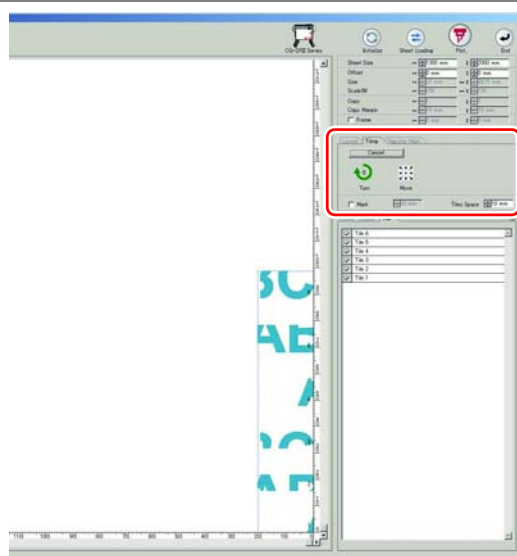
(☞ P.7-23 for details)



**3**

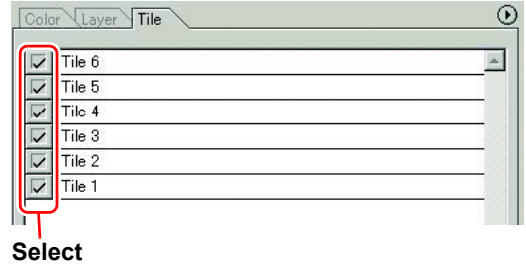
Divided objects are displayed. Set the tile position or others.

(☞ P.7-23 for details)



4

Select tiles to cut from the tile list.



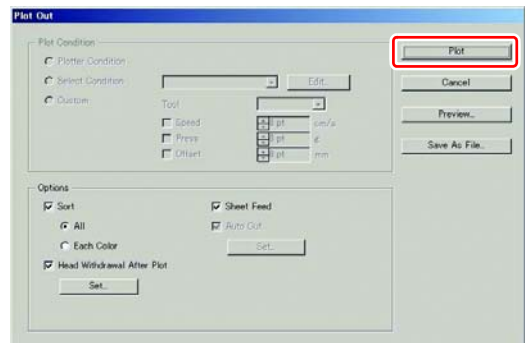
5

Click  (Plot button).



6

Click [Plot] to start cutting.



# Positioning Mark

**Important!**

- When [CF3 series (M-Head)] is selected on Plotter / User Setup screen, this function cannot be used.

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

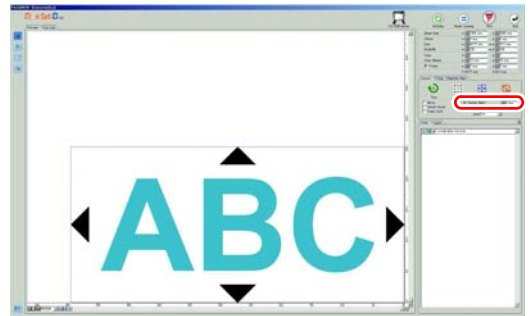
## Center mark

**1**

### Set the center mark.

Check [Center Mark] in [Layout] tab, and enter the mark size.

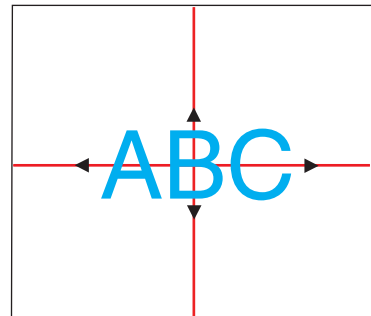
Then set others, print, and cut the object.



**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.



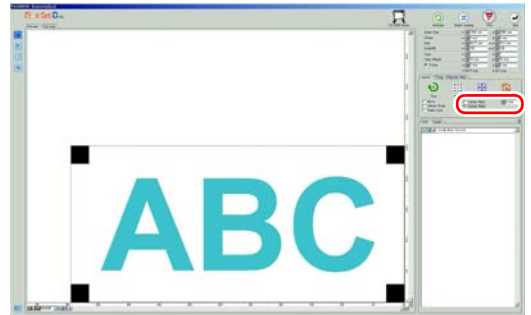
## Corner mark

# 1

### Set the corner mark.

Check [Corner Mark] in [Layout] tab, and enter the mark size.

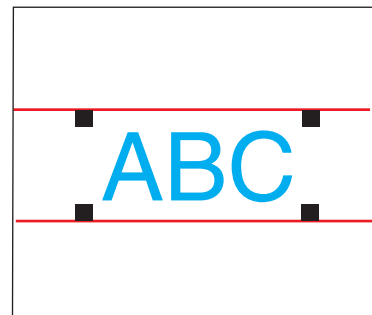
Then set others, print, and cut the object.



# 2

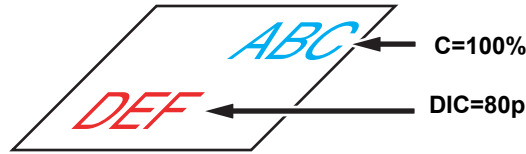
### Attach the cut seal.

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



# 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

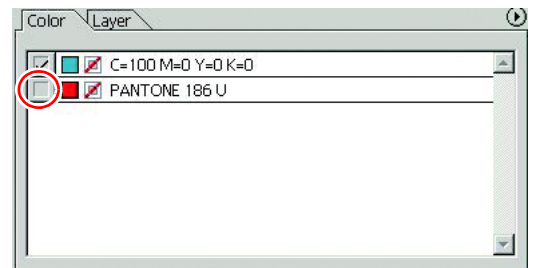
Click [Plot] button in the FineCut menu.



2


Uncheck the color set (DIC 80p) of “DEF” on the example above.

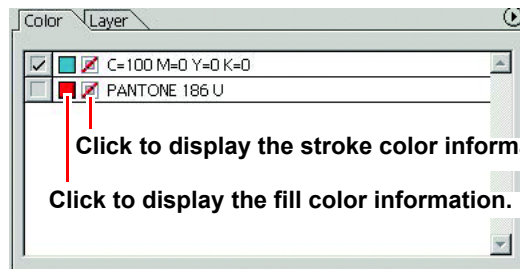
The object “DEF” disappears from the cutting area.



- Color List

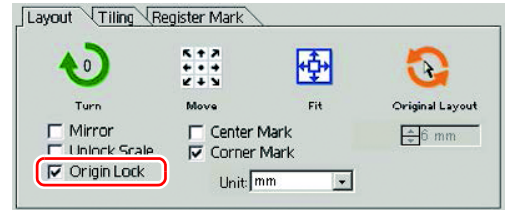
The color list displays all colors (including PANTONE and other special colors) used for the object. It also displays the colors of fill and strokes of the object.

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].
- When unchecked, the object is cut at the bottom right of the sheet (bottom left for CF/CF2/DC series) based on the origin.

Checked

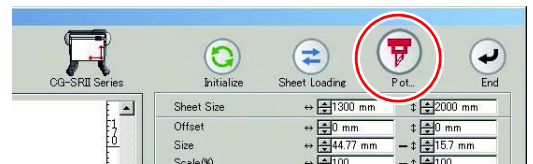


Unchecked



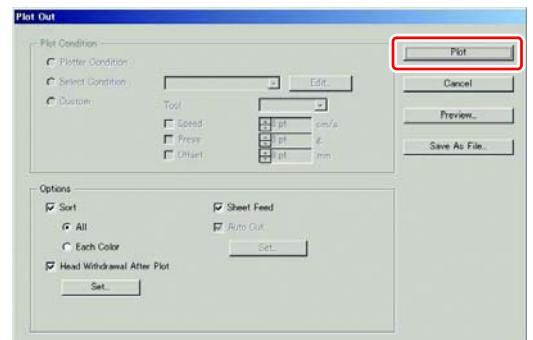
4

Click  (Plot button).



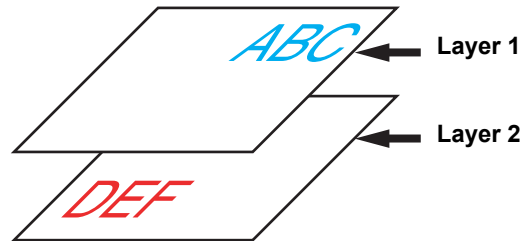
5

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

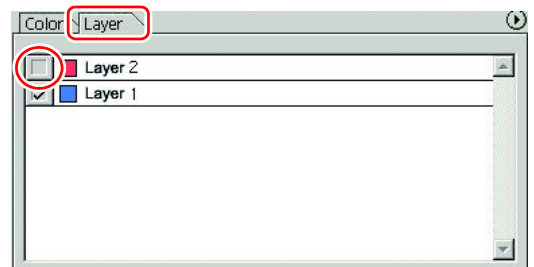
Click [Plot] button in the FineCut menu.



2

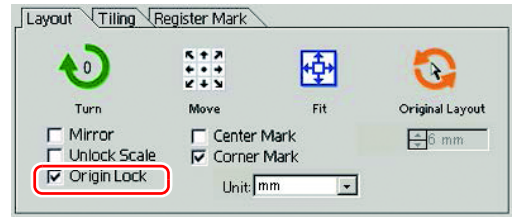
Click [Layer] tab and uncheck the layer of “DEF” on the example above.

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].
- When unchecked, the object is cut at the bottom right of the sheet (bottom left for CF/CF2/DC series) based on the origin.

Checked



Unchecked



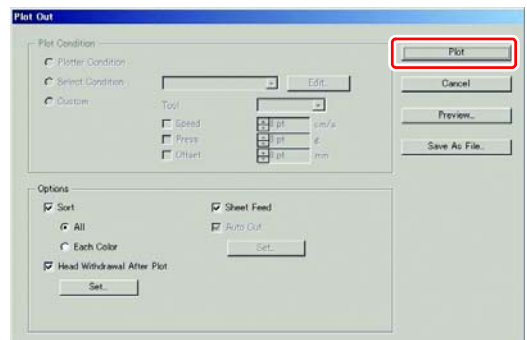
4

Click  (Plot button).



5

Click [Plot] to start cutting.



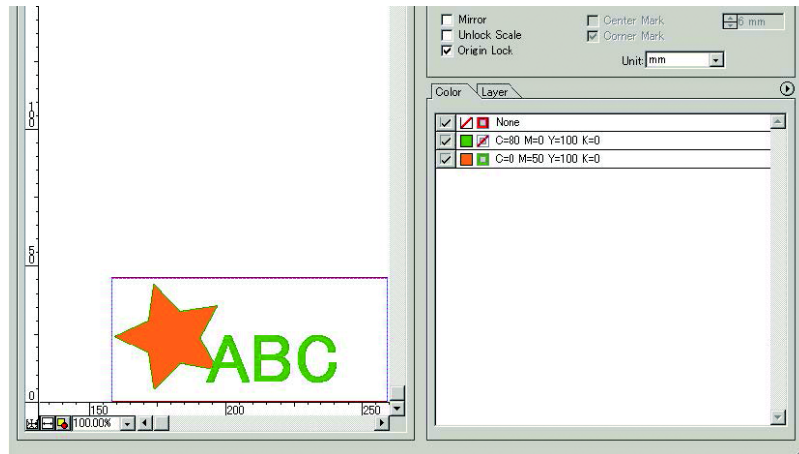
# Setting the Output Order/Tool on Each Color/Layer

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.

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.



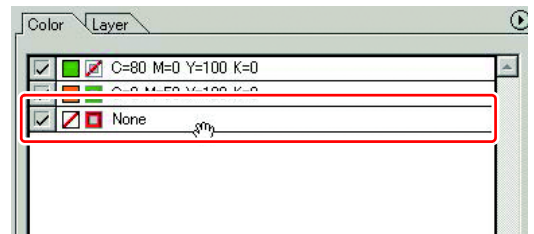
1

Click [Plot] button in the FineCut menu.



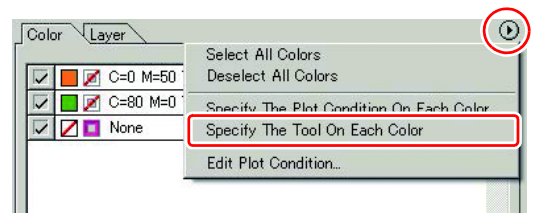
2

Drag the red in the color list to the bottom.

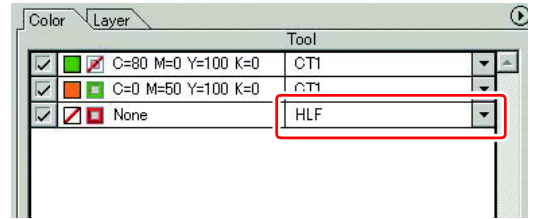


3

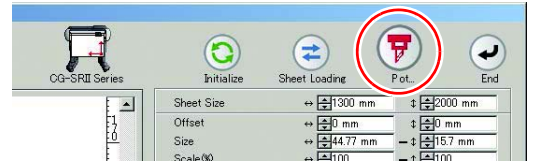
Click the upper right button of the list and select [Specify The Tool On Each Color (or Layer)].



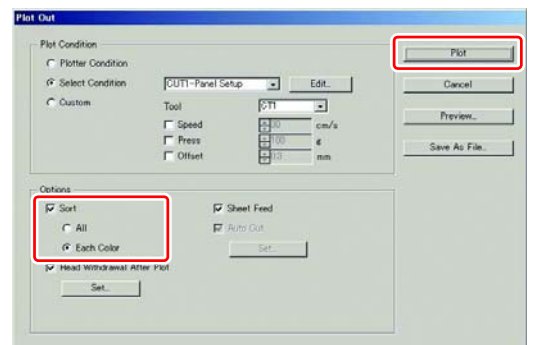
**4** Select [HLF] for tool.



**5** Click  (Plot button).



**6** Check [Sort], select [Each Color (or Each Layer)], and click [Plot].  
The object is output in the specified order.



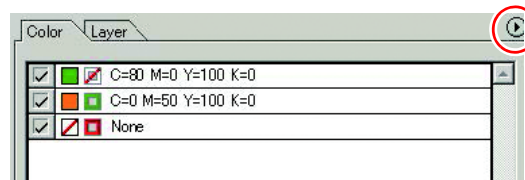
# Setting Output Condition on Each Color /Layer

Output condition can be set on each color or layer.

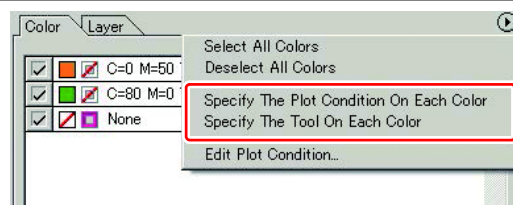
For a fine object or small characters, create an object on each color or layer, and set the appropriate output condition (lowering cutting speed, etc.) for each. The objects can be cut finely.

In CF/CF2/DC/CF3 series, you can cut and make a ruled line at one time by specifying tools on each color or layer.

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

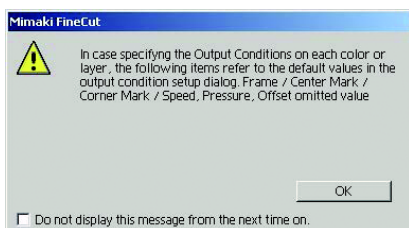


- 2** Select [Specify The Plot Condition (Tool) On Each Color (Layer)].

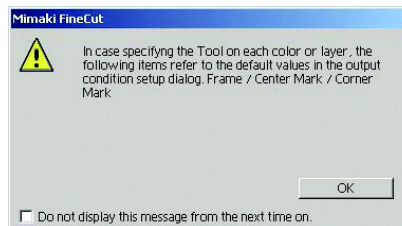


- 3** If the following screen appears, click [OK] .

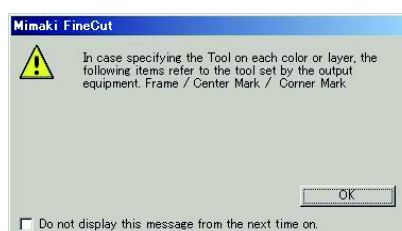
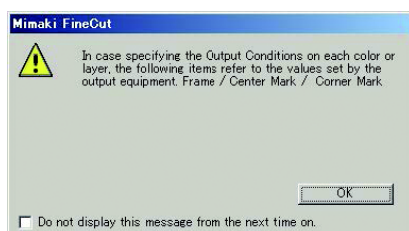
When [Specify The Plot Condition On Each Layer (Color)] is selected:



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



When CF3/CJV30/TPC/CJV300/CJV150 series is used

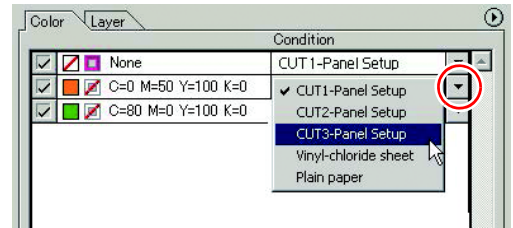


# 4

## Set the output condition.

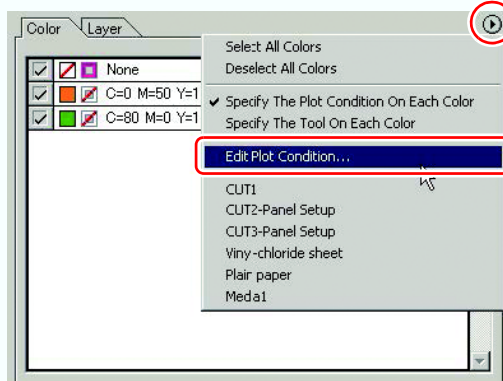
Click the button on the right of the condition, and select from the set condition.

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



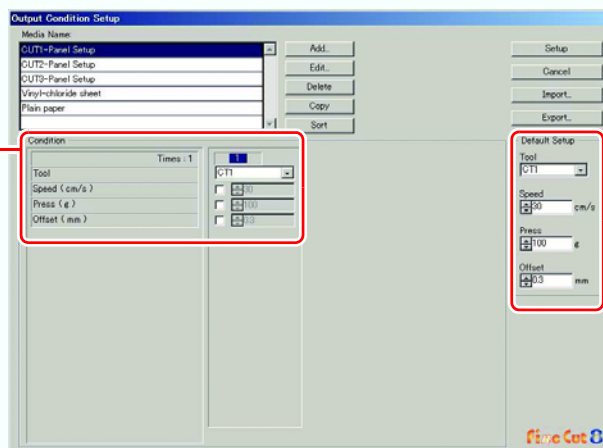
**Important!**

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



- 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.
- When items are unchecked or a frame /center mark /corner mark is specified, the media is cut by the default settings. (CJV30/TPC/CJV300/CJV150/CF3 series is cut by the plotter setting.)

Output Condition



Default Setting

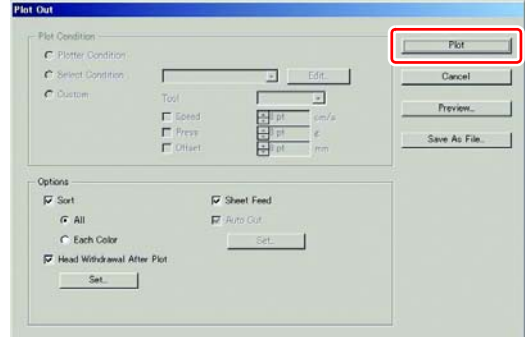
5

Click  (Plot button).



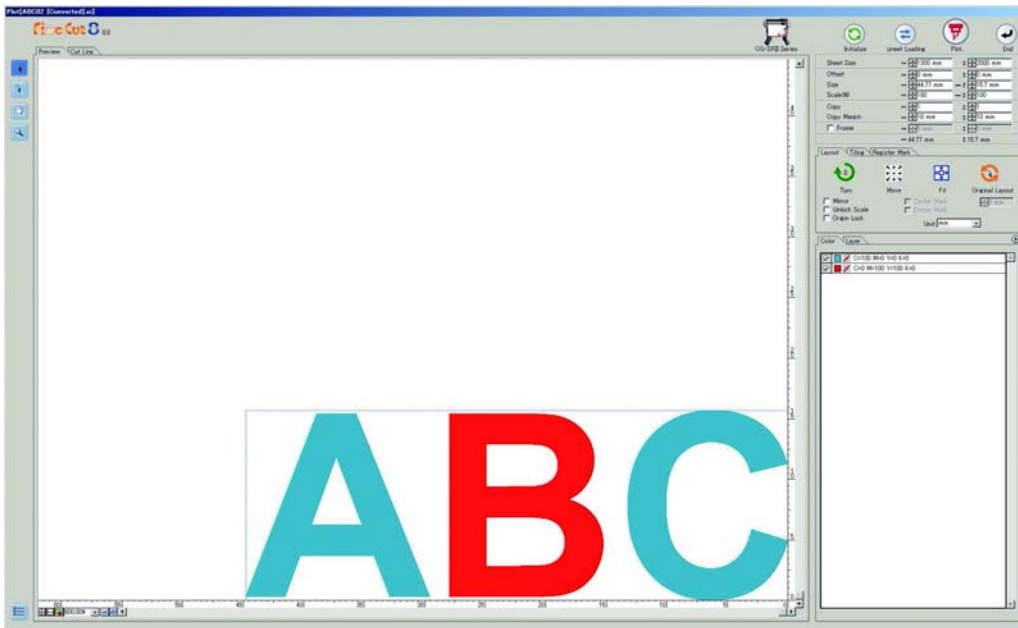
6

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.

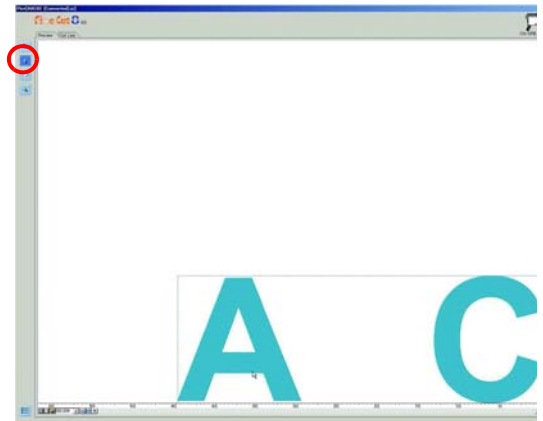


- 1** Click [Plot] button in the FineCut menu.




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

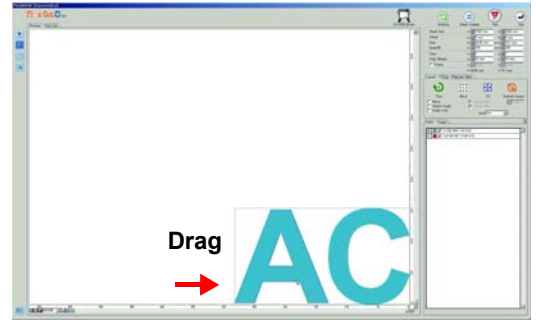
Select "A" for the example shown on the right.



3

**Drag the selected object to the desired position.**

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

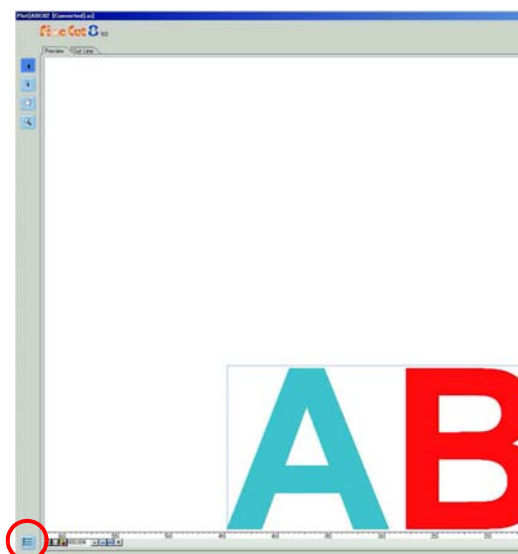


# Setting Connection to the Plotter

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


1

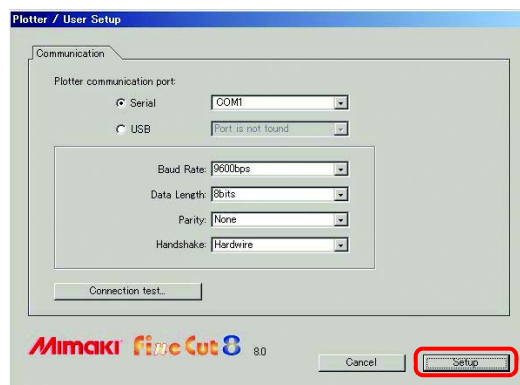
Click  (Plotter / User Setup button).



2

Select the communication port, and click [Setup].

If needed, click [Connection test] to check the connection to the plotter.  
( P.7-12 for details)



5

# Setting Head Position after Plotting

You can set the head position after plotting.

1

Click [Plot] button in the FineCut menu.



2

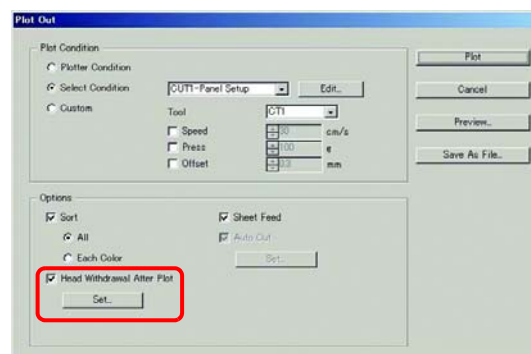
Click  (Plot button).



3

Check [Head Withdrawal After Plot].

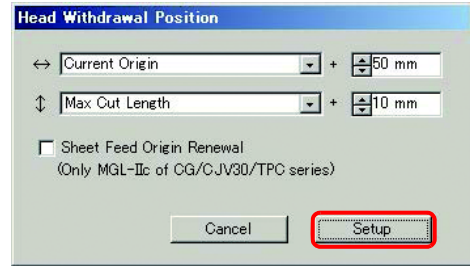
To change the head withdrawal position or to set the origin to the withdrawal position, click [Set] and go to the next step.



# 4

## Change the setting on Head Withdrawal Position screen.

After setting, click [Setup].



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 CG/ CJV30 series and TPC.) Check this to prevent from cutting on the same position with the previous cut when plotting continuously with the same sheet.

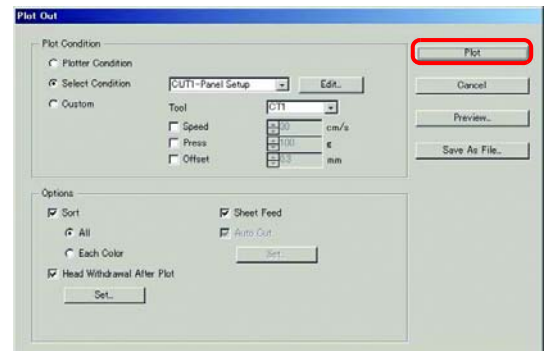
**Important!**

- In the CJV300 / 150 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.

# 5

## Click [Plot].

Plotting starts. The plotter head moves to the specified position after plotting.



# Checking the Cutting Process by Preview

Before cutting objects, you can check the plotting process with your settings by the preview.

1

Click [Plot] button in the FineCut menu.



2

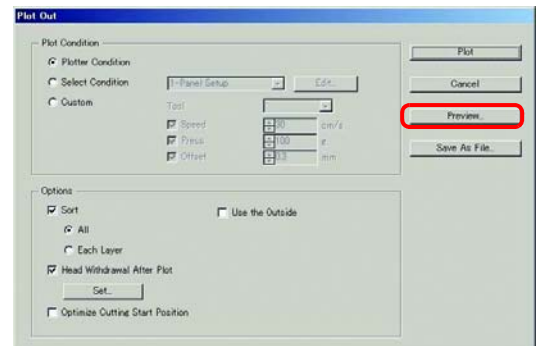
Click  (Plot button).



3

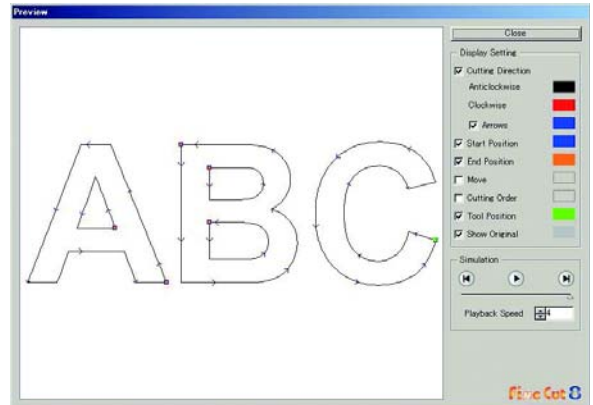
Set the plot condition, and click [Preview].

( P.7-27 for details of the setting)



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
<b>Cutting Direction</b>	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.
<b>Start Position</b>	Shows the starting point of cutting in blue.
<b>End Position</b>	Shows the ending point of cutting in orange.
<b>Move</b>	Shows the moving line raising the tool in yellow.
<b>Cutting Order</b>	Shows the numbers of cutting order.
<b>Tool Position</b>	Shows the tool (head) position in green. Displaying simulation, you can check the moving of the tool.
<b>Show Original</b>	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

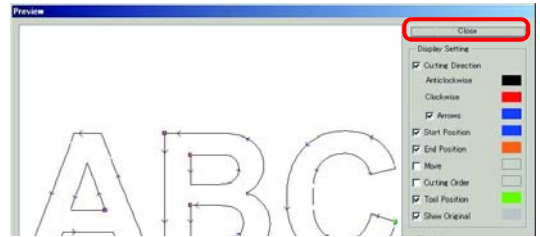
If needed, go back to Step 3 and adjust the plot condition.



- For CF/CF2/DC/CF3 series, you can check the starting position of cutting 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.7-27)  
You can also check the separation position of line separation on the preview.
- For CF3 series (M-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.7-27)  
Offset direction:  
Adjust on [Options] of Plot Out screen. ( P.7-27)  
Position of cutting line / Cutting direction:  
Adjust on [End Mill Diameter] of Output Condition Setup screen. ( P.7-8)

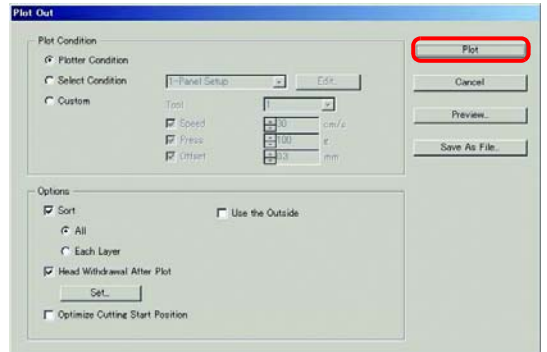
7

Check the preview again, and click [Close].



8

Click [Plot] to start cutting.



# CHAPTER 6

## *Advanced operations-others*



**This section describes other convenient usage.**

Editing the Line.....	6-2
Setting Cutting Start Position.....	6-4
Cutting with CF3 Series (M-Head).....	6-6

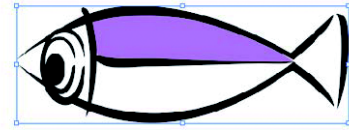
# Editing the Line

The outline created by Outline Extraction (☞ P.4-12) can be modified or changed.

**1**

**Open an image created by Outline Extraction on Illustrator.**

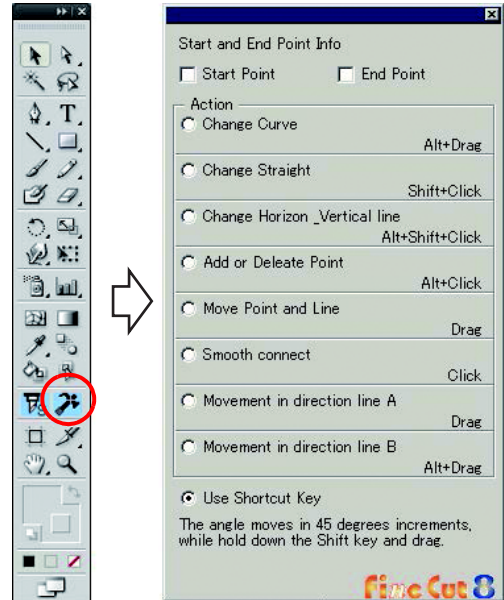
If necessary, enlarge the line to be edited with the zoom tool of Illustrator.



**2**

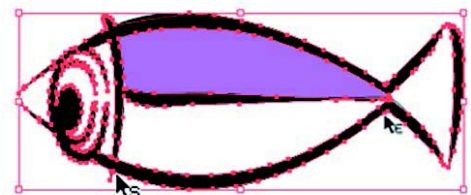
**Click [LineEdit] button on Illustrator Tool Palette.**

The line edit tool appears. (☞ P.7-37)



**3**

**Specify the start point and the end point.**

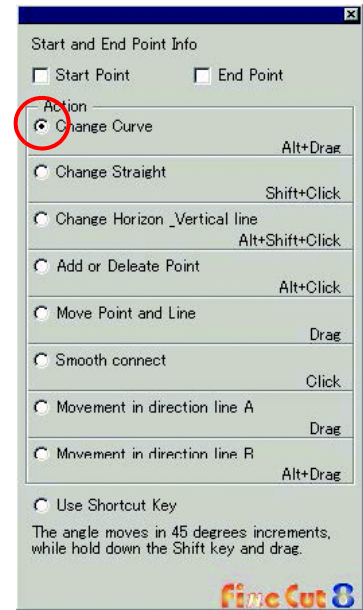


Start Point	Move the cursor close to the anchor point to show "S". Click the anchor point to set the start point.
End Point	After setting the start point, move the cursor close to the anchor point to show "E". Click the anchor point to set the end point.

4

Select the operation.

This is an example of [Change Curve].

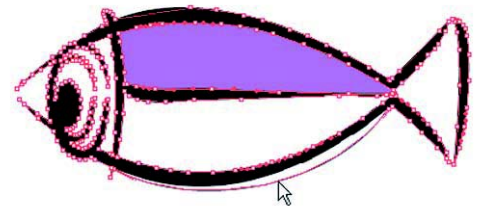


- Check [Use Shortcut Key] to edit with keys shown on the right of each operation. Use Alt key for Windows and Option key for Macintosh respectively.

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 CF series (CF/DC/CF2/CF3 (except M-Head)).

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 using [Expand] or [Expand Appearance] of Illustrator.**

For characters, execute [Create Outlines].

**2**

**Click [Specify Cutting Start Position] button on Illustrator Tool Palette.**



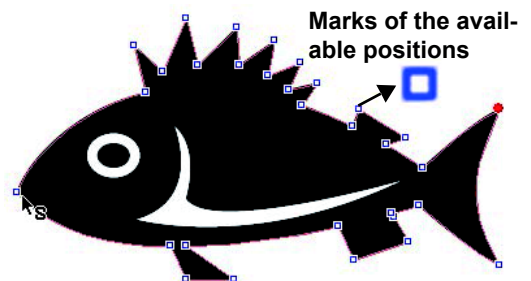
**3**

**Specify the cutting start position.**

The current cutting start position is displayed in red.

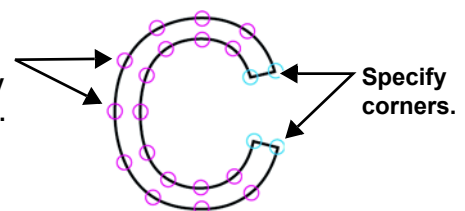
Click a target point from the available positions (marked in blue).

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.

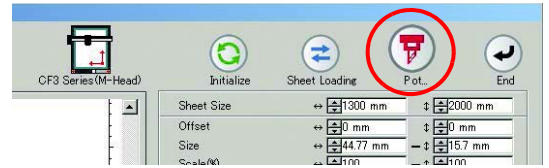


**4**

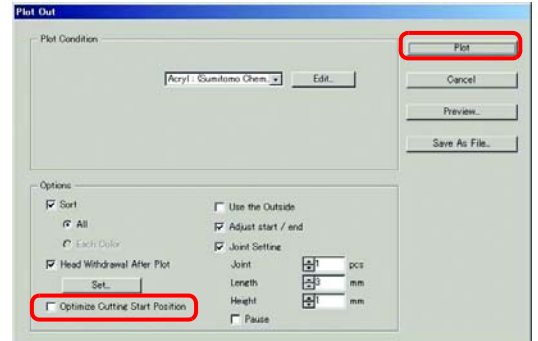
**Click [Plot] button in the FineCut menu.**



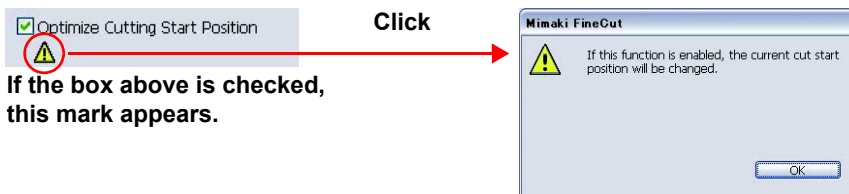
**5** Click  (Plot button).



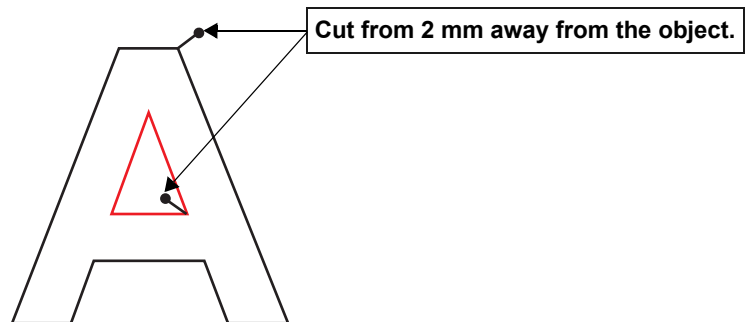
**6** (For CF/CF2/DC/CF3 series) Uncheck [Optimize Cutting Start Position] and click [Plot] .



- If [Optimize Cutting Start Position] is checked, the cutting start position set before becomes invalid. (The following message appears when clicking “!”.)



- (For CF3 Series (M-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.)



# Cutting with CF3 Series (M-Head)

The way of cutting can be set.

## 1 Set Z axis origin to a plotter.

For details, refer to the operation manual of the plotter.

## 2 Click [Plot] button in the FineCut menu.

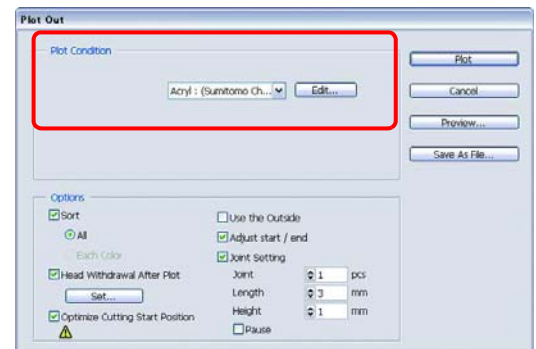


## 3 Click (Plot button).



## 4 Select [Plot Condition].

Select the plot condition set in FineCut.  
Click [Edit...] to add media or to set cutting condition by each media.  
In the cutting condition, set the condition for using endmill such as work thickness or cutting depth. (☞ P.7-5)

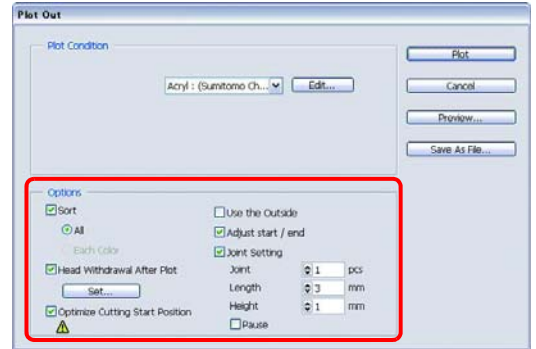




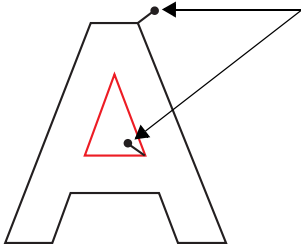
- If the plot condition is set on each color / layer (☞ P.5-16), [Plot Condition] in this screen is invalid.

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.



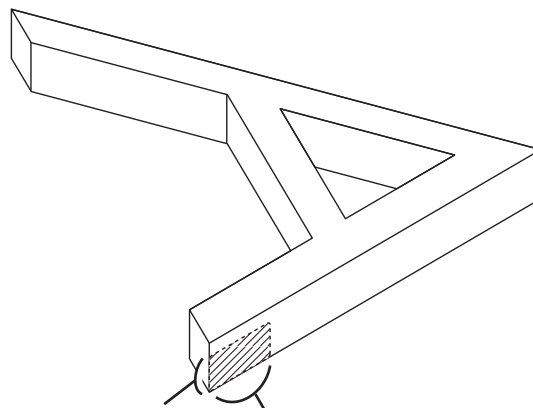
Item	Description
(☞ P.7-27 for the setting other than below)	
Optimize Cutting Start Position	<p>Optimizes the start position of cutting to finish finely. If unchecked, cutting starts from the position that the data started to draw or the position specified by [Specify Cutting Start Position].</p> <ul style="list-style-type: none"> <li>• After setting, be sure to check the start position of cutting on the preview.</li> <li>• 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.</li> </ul>
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><b>Use inside (Unchecked)</b></p> </div> <div style="text-align: center;">  <p><b>Use outside (Checked)</b></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>

Item	Description	
Joint Setting	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.	
	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

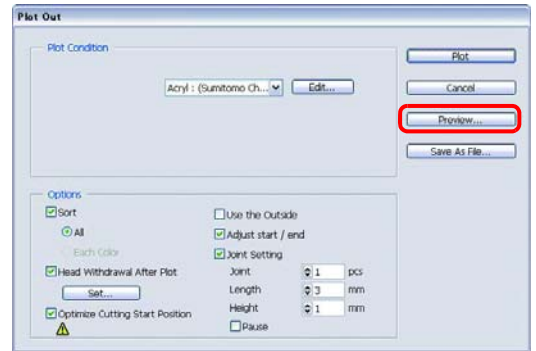
- After setting [Joint Setting], test the cutting.
- If multiple cutting and [Cutting Depth] is set on Output Condition Setup screen (☞ P.7-5), and when the cutting depth is deeper than [Height] in Plot Out screen, Joint Setting is invalid.
- If the number of cutting is set to multiple on Output Condition Setup screen, the jointed part is cut the times controlled by 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].



Joint Height      Joint Length (The shadow area is the part to leave)

6

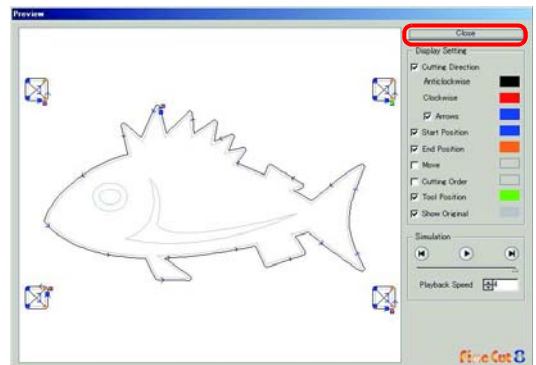
Click [Preview].



7

Check the cutting line. (☞ P.5-24)

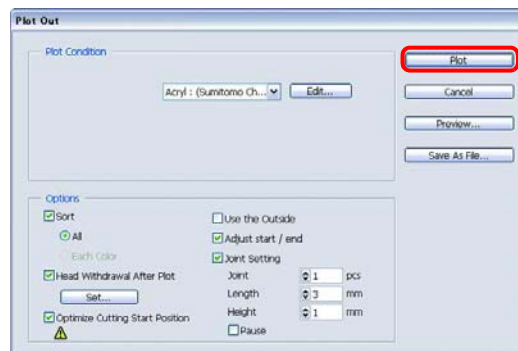
After checking, click [Close].



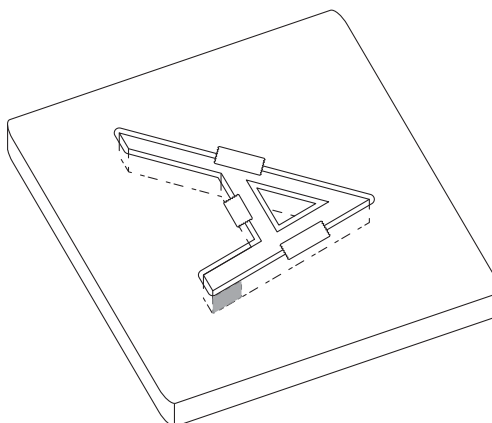
- The cutting line is offset by half of [End Mill Diameter] set on Output Condition Setup screen or set from [Edit] of Step 4 (☞ P.7-5). Checking the cutline on the preview, adjust the end mill diameter on the Output Condition screen.

8

Click [Plot] to start cutting.



- When [Pause] is selected on [Joint Setting] of Plot Out screen, cutting stops and the head is withdrawn.  
Put tapes on the media to fix, and press [REMOTE] button of the plotter. Then the jointed part is cut.



# CHAPTER 7

## *Description of Functions*



This section describes the functions of FineCut.

FineCut Menu .....	7-2	[Outline Extraction] Screen.....	7-30
How to display FineCut menu .....	7-2	Trace simply .....	7-30
Menu .....	7-3	Trace with detail setting .....	7-31
[Plotter/User Setup] Screen .....	7-4	[Output to RasterLink] Screen .....	7-33
Plotter .....	7-4	[About FineCut] Screen .....	7-36
Output Condition Setup .....	7-5	[Line Edit Tool] Screen .....	7-37
Communication .....	7-12	Setting Cutting Start Position .....	7-40
Plot Dialog .....	7-14	[Online Information] Screen.....	7-41
Alert Display .....	7-15	Uninstallation of FineCut .....	7-42
Other .....	7-16	For Windows .....	7-42
[Plot] Screen .....	7-17	For Macintosh .....	7-42
[Plot Out] Screen .....	7-27		

# FineCut Menu

## How to display FineCut menu

Display and select the FineCut menu from the following menus on Illustrator.

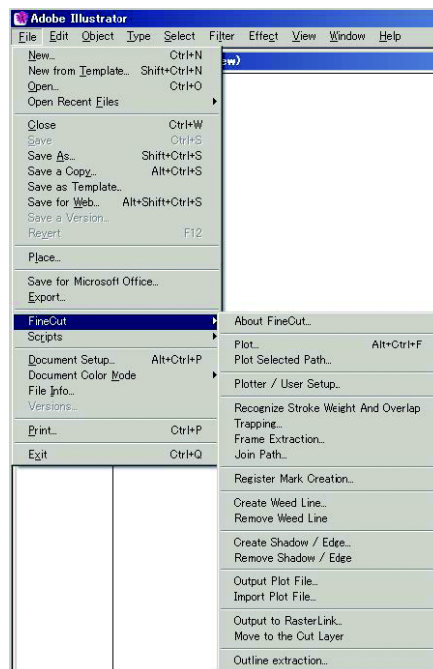
### From [Window] menu of Illustrator

Click [Show FineCut menu] ([Mimaki FineCut] for Illustrator 10 or later) to display the screen below.  
Click the button on the screen to start each menu.





















### From [File] menu of Illustrator


Click [FineCut] and click each menu.



## Menu

Button	Menu	Description
	Plot	Sets the layout or options of an object to plot. (☞ P.7-17)
	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)
	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)
	About FineCut	Displays the Operation Manual and the latest information of FineCut. (☞ P.7-36)
	Create Weed Line	Creates a precut line (weed line) around the object to tear off the sticker with ease. (☞ P.4-6)
	Remove Weed Line (in the File menu only)	Removes the created weed line.
	Create Shadow / Edge	Creates a shadow / edge on the object. (☞ P.4-8)
	Remove Shadow / Edge (in the File menu only)	Removes the created shadow / edge on the object.
	Import Plot File...	Imports a saved plot file. (☞ P.4-10)
	Output Plot File...	Outputs a created plot file to the plotter. (☞ P.4-10)
	Outline Extraction	Creates an outline to cut a bitmap image. (☞ P.4-12)
	Output to RasterLink	Sends the set file to RasterLink when using CJV30/ TPC/CJV300/ CJV150 series. (☞ P.4-14)
	Move to the Cut Layer	Moves the selected path into the newly-created cut layer. The moved data is not printed. (☞ P.4-14)
	Plotter / User Setup	Sets the plotter used, communication condition to the plotter, or others. (☞ P.7-4)

# [Plotter/User Setup] Screen

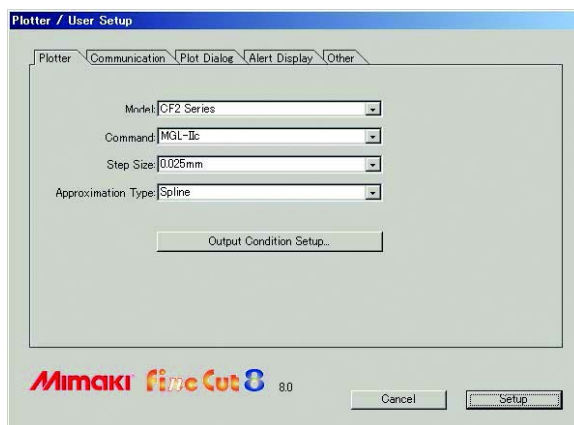
Set the model or communication conditions to enable communication between FineCut and the plotter.  
Click  ([Plotter / User Setup] button) in the FineCut menu.


**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.



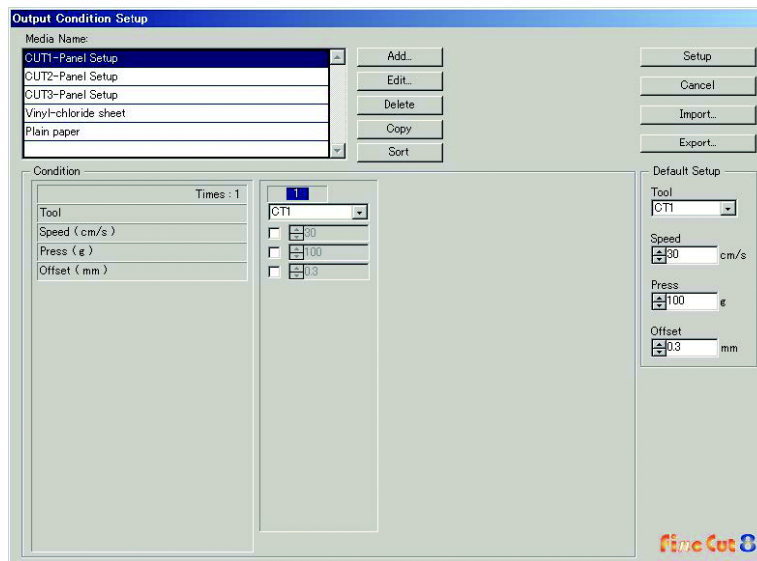
Item	Description
<b>Model</b>	Select the plotter model connected.
<b>Command</b>	Select the command set on the plotter.
<b>Step Size</b>	Select the step size set on the plotter.
<b>Approximation Type</b>	Select the approximation type when cutting bezier curves of the object.
<b>[Output Condition Setup...]</b>	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



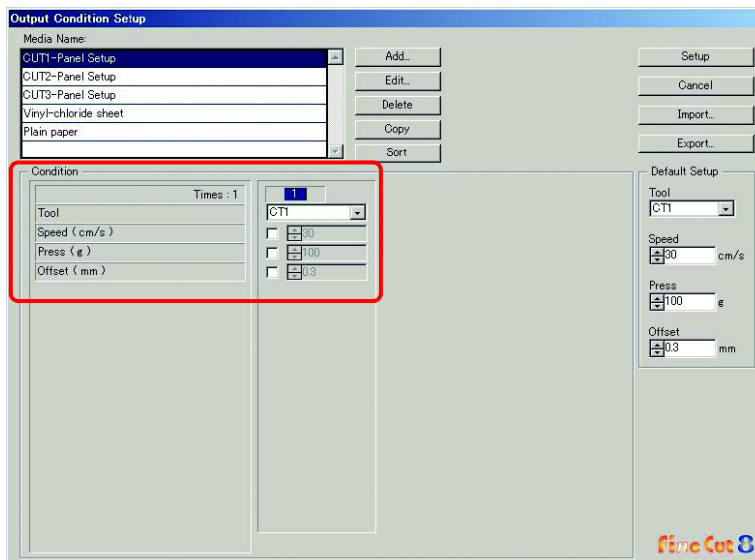
- When CF3/CJV30/TPC/CJV300/CJV150 series is selected, [Default Setup] is not displayed.

Item	Description
<b>Media Name</b>	Displays the created media names (output condition).
<b>Condition</b>	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)
<b>[Add]</b>	Add the media name.
<b>[Edit]</b>	Change the media name. Select media from [Media Name], and click [Edit].
<b>[Delete]</b>	Delete the media name. Select media from [Media Name], and click [Delete].
<b>[Copy]</b>	Copy the media name. Select media from [Media Name], and click [Copy].
<b>[Sort]</b>	Sort the media name in ascending order.
<b>[Import]</b>	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.
<b>[Export]</b>	Save the all media names (output condition) to a file.
<b>Default Setup</b>	When output condition is set by color/layer (☞ P.5-16), set output conditions (Tool / Speed / Press / Offset) for frame or mark that cannot be set by color/ layer.

## When CG/CJV30/TPC/CJV300/CJV150 series is selected



- When setting output condition for each color/layer, default setting (for CG series) or the plotter setting (for CJV30/CJV300/CJV150 series /TPC) is valid for unchecked items on the screen below.
- For the details of each item, refer to the operation manual of the plotter.

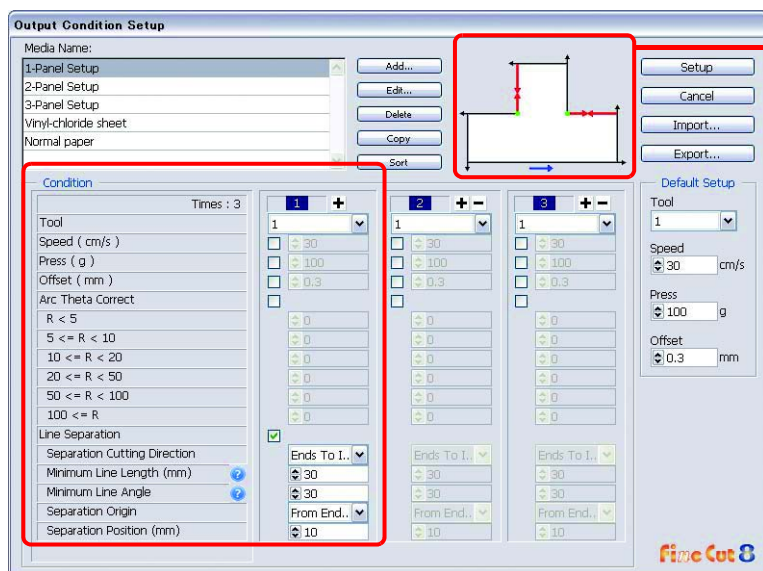


Item	Description	Default
<b>Times</b>	Displays the number of cutting. (CG/CJV30/TPC/CJV300/CJV150 series always displays "1".)	--
<b>Tool</b>	Select the tool to be used. (CJV30 / TPC series does not have CT4 / CT5 / PIN.)	CT1
<b>Speed</b>	Set cutting speed per second.	30
<b>Press</b>	Set cutting pressure.	100
<b>Offset</b>	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

## When CF/CF2/DC/CF3 (except M-Head) is selected



- When setting output condition for each color/layer, default setting (for CF/CF2/DC series) or the plotter setting (for CF3 series (except M-Head)) is valid for unchecked items on the screen below.
- For the details of each item, refer to the operation manual of the plotter.



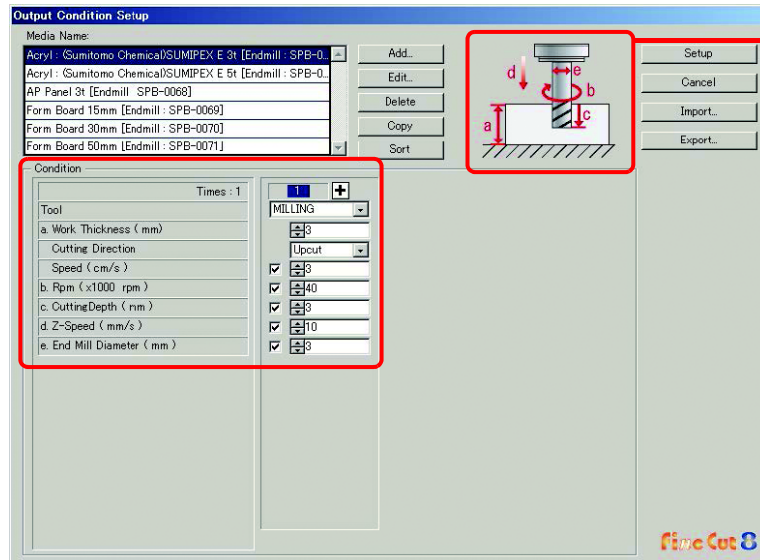
Check [Separation Cutting Direction] and [Separation Position] changing from the [Separation Origin].  
(Displays only when [Line Separation] is selected.)

Item	Description	Default	
<b>Times</b>	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	
<b>Tool</b>	Select the tool to be used. Select the tool number or the tool name set on the plotter.  <b>Important!</b> If set the tool number in the output conditions, check the settings of the tool of plotter side.	1	
<b>Speed</b>	Set cutting speed per second.	30	
<b>Press</b>	Set the pressure to cut.	100	
<b>Offset</b>	Set the length from the center of cutter holder to the blade edge.	0.3	
<b>Arc Theta Correct</b>	Adjust the misalignment of origin /end point of the cutting arc.	unchecked	
<b>Line Separation</b> (☞ P.4-22)	<b>Line Separation</b>	Check this when cutting with lines separated.	unchecked
	<b>Separation Cutting Direction</b>	Select cutting direction of the separated line.	Ends To Inner
	<b>Minimum Line Length</b>	Set the minimum length of the line to be separated. Click [?] to display descriptions of this item.	30
	<b>Minimum Line Angle</b>	Set the minimum angle of the line to be separated. Click [?] to display descriptions of this item.	30
	<b>Separation Origin</b>	Set the origin position of the line to be separated.	From End Point
	<b>Separation Position</b>	Specify the separating position with the distance from [Separation Origin].	10
<b>Navigation</b>	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 the details of each item, refer to the operation manual of the plotter.



Shows the items of output condition below

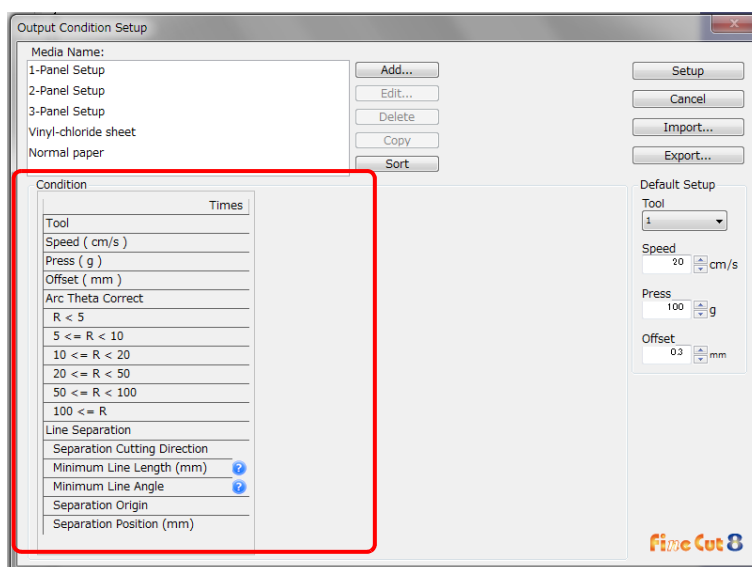
Item	Description	Default
<b>Times</b>	Display or set the number of cutting. To cut hard or thick media, set cutting times/speed/pressure multiple times for a single cut line. Click  to increase the number of cutting. Set the output condition for each cutting. Click  to decrease the number of cutting.	1
<b>Tool</b>	Displays [MILLING].	--
<b>a</b> <b>Work Thickness</b>	Set the thickness of work (media) (50mm maximum). You can set only on the first column of the cutting condition setting field.	3
<b>Cutting Direction</b>	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"> <li>• Up-Cut Cuts the left side of the end mill direction as a work.</li> <li>• Down-Cut Cuts the right side of the end mill direction as a work.</li> </ul>	Upcut
<b>Speed</b>	Set the speed of the end mill to move in the direction of travel.	3

	Item	Description	Default
b	<b>Rpm</b>	Set the spin times of end mill. Set the number to time 1000rpm, the base number.	30x1000
c	<b>Cutting Depth</b>	Set the origin position of Z axis (Length from the surface of the work to the edge of the end mill).	3
d	<b>Z-Speed</b>	Set the speed of the end mill to go into the work.	10
e	<b>End Mill Diameter</b>	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.	--

## When CFL-605RT is selected



- For unchecked items, default setting is valid.
- For the details of each item, refer to the operation manual of the plotter.

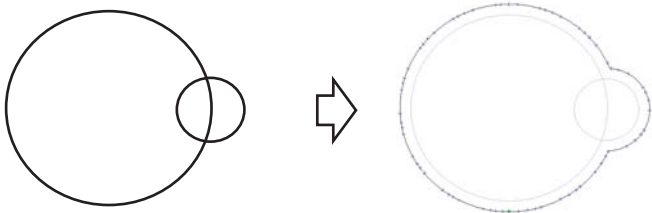


Item	Description	Default	
<b>Times</b>	Display or set the number of cutting. To cut hard or thick media, set cutting times/speed/pressure multiple times for a single cut line. Click $\boxplus$ to increase the number of cutting. Set the output condition for each cutting. Click $\boxminus$ to decrease the number of cutting.	1	
<b>Tool</b>	Select the tool to be used.  <div style="border: 1px solid black; padding: 5px;"> <p><b>Important!</b></p> <ul style="list-style-type: none"> <li>• If set the tool number in the output conditions, check the settings of the tool of plotter side.</li> <li>• Check the pen number allocation of plotter side, and set of FineCut.</li> <li>• 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.</li> </ul> </div>	1	
<b>Speed</b>	Set cutting speed per second.	30	
<b>Press</b>	Set the pressure to cut.	100	
<b>Offset</b>	Set the length from the center of cutter holder to the blade edge.	0.3	
<b>Arc Theta Correct</b>	Adjust the misalignment of origin /end point of the cutting arc.	unchecked	
<b>Line Separation</b> (☞ P.4-22)	<b>Line Separation</b>	Check this when cutting with lines separated.	unchecked
	<b>Separation Cutting Direction</b>	Select cutting direction of the separated line.	Ends To Inner
	<b>Minimum Line Length</b>	Set the minimum length of the line to be separated. Click [?] to display descriptions of this item.	30
	<b>Minimum Line Angle</b>	Set the minimum angle of the line to be separated. Click [?] to display descriptions of this item.	30
	<b>Separation Origin</b>	Set the origin position of the line to be separated.	From End Point
	<b>Separation Position</b>	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.	--

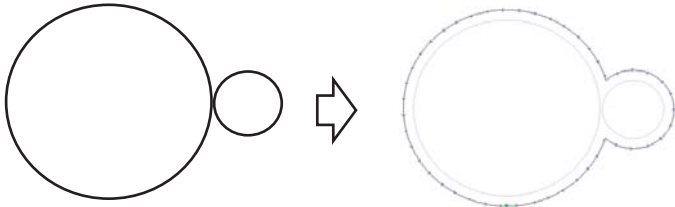
# Offset

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.



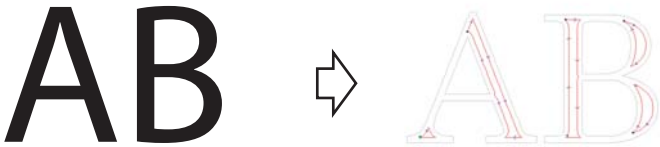
- If offset objects are touched each other, the objects are united.



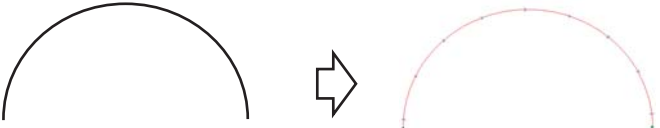
- If copy function is used, set [Copy Margin] wide (more than 10mm), not to go one object over the next object.



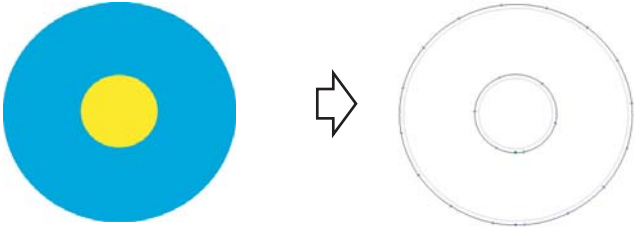
- If one part goes over the other part when offsetting inward, the part over the other part is not cut.



- An open path is not offset.

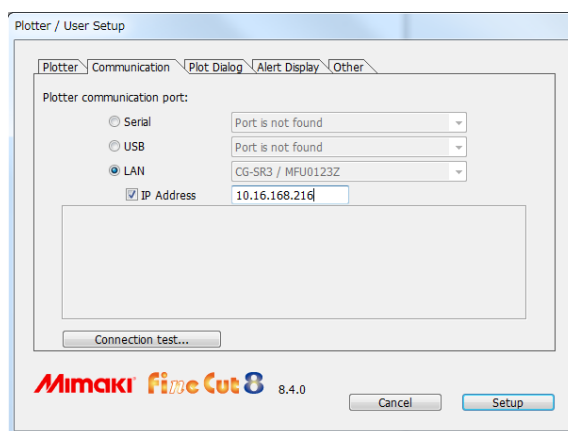


- If output condition is set on each color /layer, each color /layer is offset.



# Communication

Set communication conditions for the plotter connected.



Item	Description	Default
<b>Plotter communication port</b>	<p>Select a port connected to the plotter.</p> <p>When using CG-FX / CG-FXII / CG-75ML / CG-60SR / CG-SR11 / CG-SR111 / CJV30 / TPC / CJV300 / CJV150 / CFL-605RT / CF3 series, you can select USB connection.</p> <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> <p>When using CFL-605RT / CG-SR III series, you can connect via LAN cable.</p> <p>Connect the PC and the plotter with the network via LAN cable. Turn ON the power supply of the plotter.</p> <p>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.</p> <p>The connected machine is displayed in the [Machine name/serial No.] format.</p> <p>If multiple machines are connected, you can identify them by the serial No.</p> <p>You can check the serial No. in [INFORMATION] of the plotter.</p>	--
<b>Baud Rate</b>	(When [Serial] is selected on [Port]) Select the transfer rate.	9600
<b>Data Length</b>	(When [Serial] is selected on [Port]) Select the number of data bits.	8
<b>Parity</b>	(When [Serial] is selected on [Port]) Select the parity check method.	None
<b>Handshake</b>	(When [Serial] is selected on [Port]) Select the handshake method.	Hardwire
<b>[Connection test...]</b>	Test the connection to the plotter.	--

**Important!**

- **Note on Serial connection**

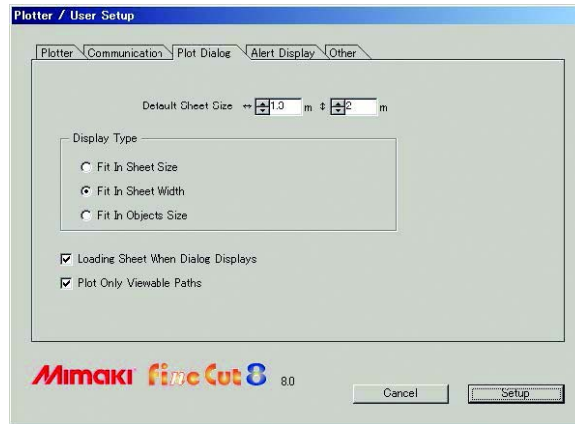
Connection When connecting serially with CG-SR III series, set [Baud Rate] at [38400bps]. If communicating by using speed other than [38400bps], cutting quality may be decreased.

- **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.

# Plot Dialog

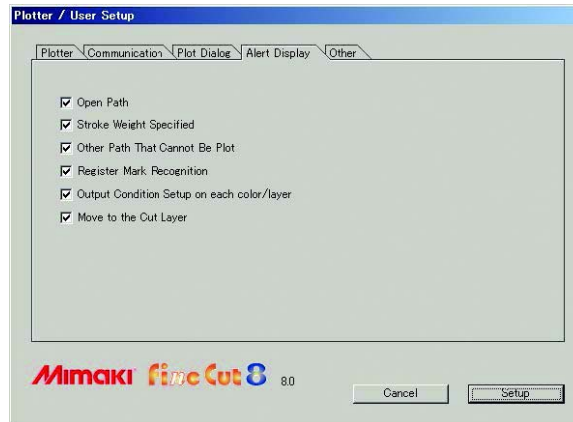
Set the display of Plot screen and Output to RasterLink screen.



Item	Description	Default
<b>Default Sheet Size</b>	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.	1.3mx2m
<b>Display Type</b>	Select the display type of Plot screen or [Output to Raster-Link] screen.	Fit In Sheet Width
<b>Loading Sheet When Dialog Displays</b>	The sheet size is automatically loaded and previewed on [Plot] screen.	checked
<b>Plot Only Viewable Paths</b>	Plots only the displayed paths. Undisplayed paths are not plotted.	checked

## Alert Display

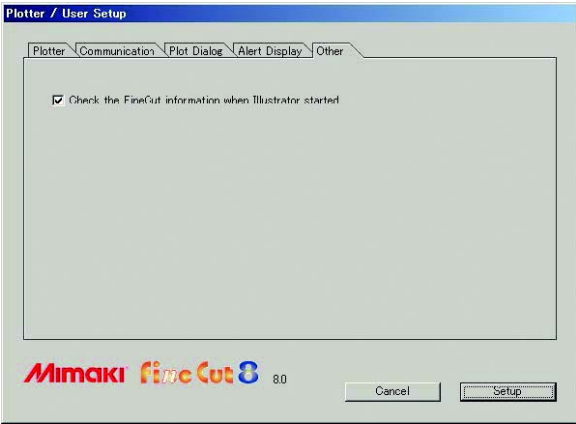
Select the state to display warnings from the following options.



Item	Description	Default
<b>Open Path</b>	The path is not closed. (The start and the end points are not set to the same point.)	checked
<b>Stroke Weight Specified</b>	There is a path that the stroke weight is specified.	checked
<b>Other Path That Cannot Be Plot</b>	The object may be drawn with the Gradient Mesh tool of Illustrator, or the object is a raster image.	checked
<b>Register Mark Recognition</b>	Two-points are corrected at the time of register mark recognition. (CG-EX only)	checked
<b>Output Condition Setup on each color/layer</b>	The output conditions are set on each color or layer.	checked
<b>Move to the Cut Layer</b>	When executing [Move to the Cut Layer], the confirmation screen is displayed. (P.4-18)	checked

# Other


Select whether or not to display "Online information" when Illustrator is started.

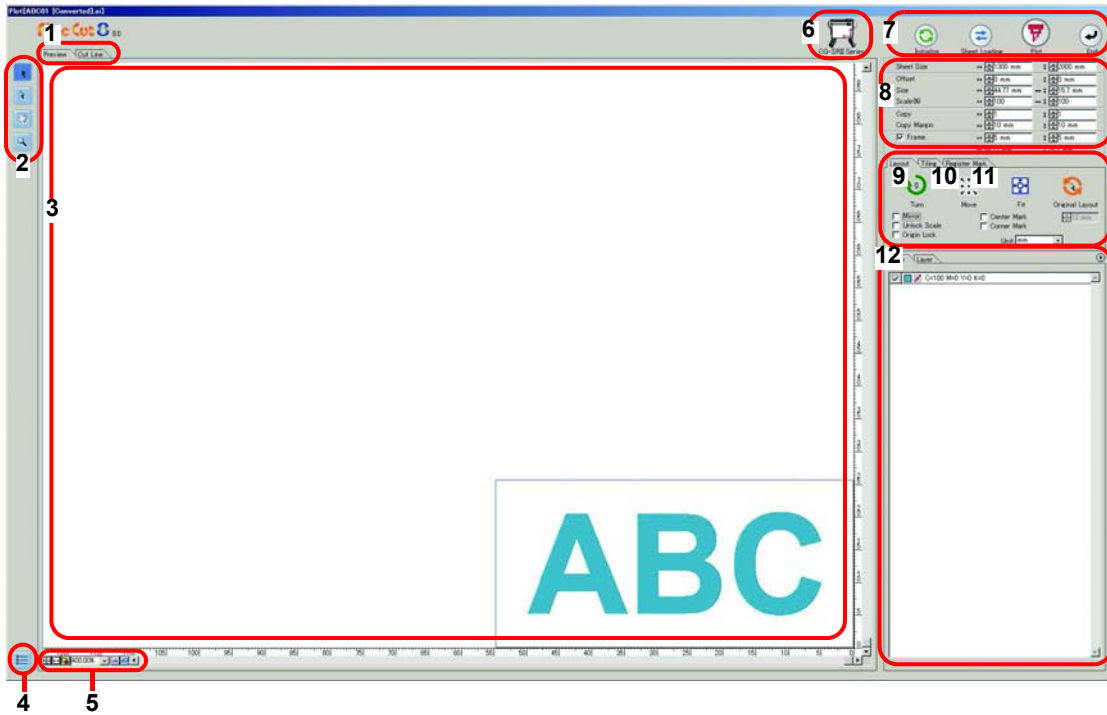


Item	Description	Default
<b>Check the FineCut information when Illustrator started.</b>	FineCut information is obtained when starting Illustrator, and if there is a new / unchecked information, the online information is displayed.	checked

# [Plot] Screen

Set for plotting.

To display this screen, click  ([Plot] button) in the FineCut menu.







## 1 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.

## 2 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.5-19)
	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).

### 3 Layout Area




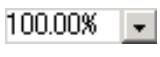

The white area is the effective cutting area loaded from the sheet. It displays the sheet width along the horizontal axis and the sheet length along the vertical axis. When the object is larger than the cutting area, the  mark appears to the left of  Plot button. Click  mark to display the contents of the error.

### 4 Communication setting

Displays the communication setting. ( P.7-12)

### 5 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.

### 6 Plotter Name


Displays the plotter name being selected and its cutting direction.

## 7 Execution Button

Button	Item	Description
	<b>Initialize</b>	Initializes the layout of the changed object.
	<b>Sheet Loading</b>	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.
	<b>Plot</b>	Displays Plot Out screen. (☞ P.7-27) 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.
	<b>End</b>	Closes the Plot screen.

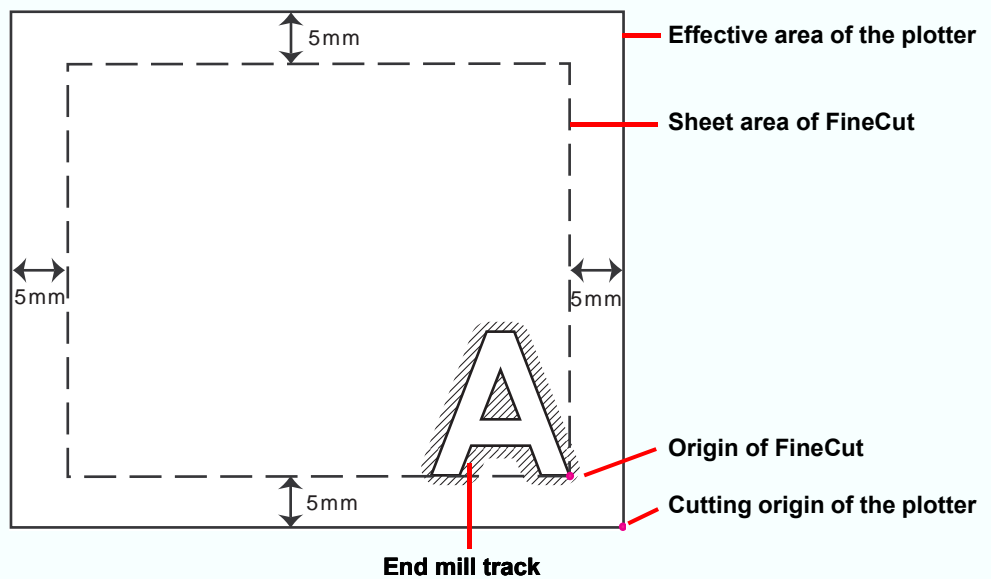
## 8 Size input area

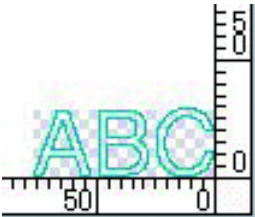
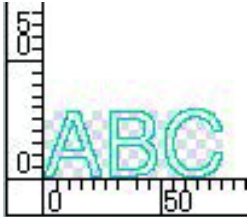
Sheet Size	↔ 635 mm	↓ 810 mm	
Offset	↔ 0 mm	↓ 0 mm	
Size	↔ 333.2 mm	↓ 115.53 mm	
Scale(%)	↔ 100	↓ 100	
Copy	↔ 1	↓ 1	
Copy Margin	↔ 10 mm	↓ 10 mm	
<input checked="" type="checkbox"/> Frame	↔ 5 mm	↓ 5 mm	
	↔ 343.2 mm	↓ 125.53 mm	<b>Total Length</b>

Item	Description	Default
<b>Sheet Size</b>	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).	--

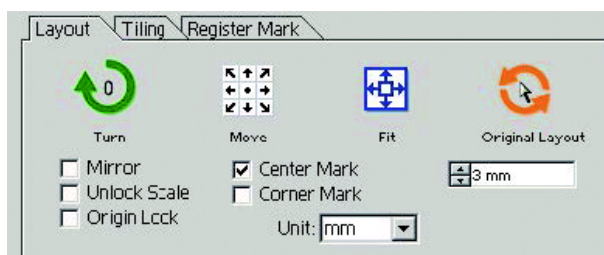
**Important!**






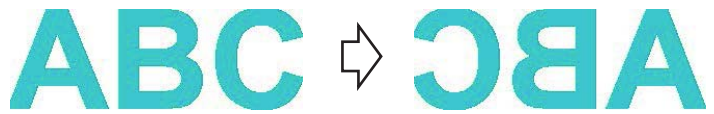
- When [CF3 (M-Head)] is selected on [Model] in Plotter/User Setup screen (🔗 P.7-4), Fine-Cut reduces the width and length to cut 5 mm smaller than the cutting origin of the plotter, considering the end mill diameter of the milling. Therefore, the width and length displayed on [Sheet Size] are 10 mm smaller than the plotter setting.



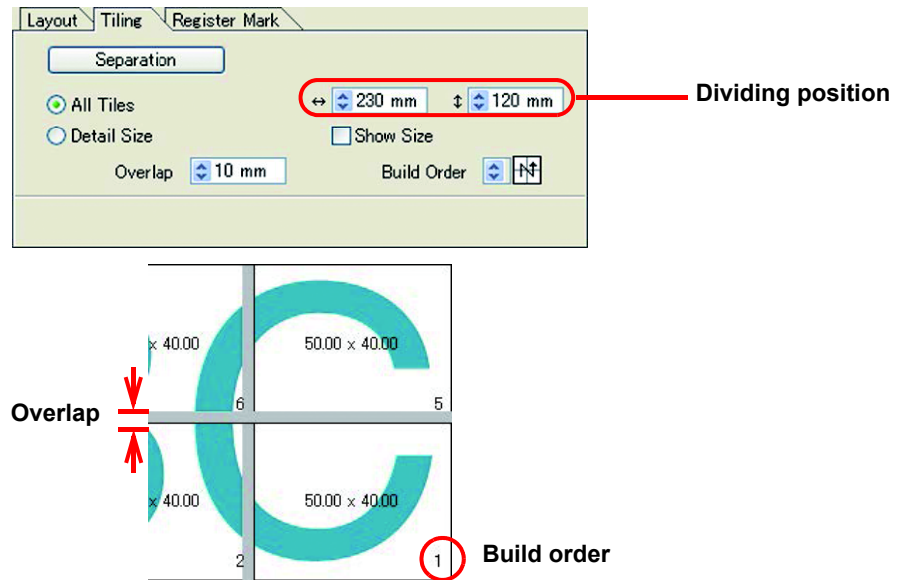
Item	Description	Default
<b>Offset</b>	<p>Sets the origin position. The origin is set at the bottom right corner (CG/CJV30/TPC/CJV300/CJV150/CF3 series) or the bottom left corner (CF/CF2/DC series) of the layout area. The default origin is at 0 mm (both vertically and horizontally) of the layout area.</p> <p><b>CG/CJV30/TPC/CJV300/CJV150CF3 series</b></p>  <p><b>CF/CF2/DC series</b></p> 	0
<b>Size</b>	<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>	--
<b>Scale (☞ P.5-2)</b>	<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>	--
<b>Copy (☞ P.5-4)</b>	Enter the number of copies along the vertical and horizontal directions.	1
<b>Copy Margin (☞ P.5-4)</b>	Set the margin between objects along the vertical and horizontal directions.	10mm
<b>Frame</b>	<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"> <li>• With the center mark and the corner mark (☞ P.5-8), you can easily align and affix a cut sticker.</li> </ul>	unchecked
<b>Total Length</b>	<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>	--



## 9 Layout



Button	Item	Description	Default
	<b>Turn</b>	Rotates the object clockwise in unit of 90 degrees. Degrees (0, 90, 180, 270) are displayed in the arrow mark.	0
	<b>Move</b>	Click the desired direction of arrow to move the object.	--
	<b>Fit</b>	Fits the object to the sheet size.	--
	<b>Original Layout</b>	Resets to the original layout that is changed by  .	--
	<b>Mirror</b>	Reverses the right and left of the object image and cuts it. 	unchecked
	<b>Unlock Scale</b> (👉 P.5-2)	Changes the aspect ratio of the object when changing the size.	unchecked
	<b>Origin Lock</b> (👉 P.5-10)	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.	unchecked
	<b>Center Mark</b> (👉 P.5-8)	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
	<b>Corner Mark</b> (👉 P.5-8)	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
	<b>Unit</b>	Set the display unit in this screen.	mm

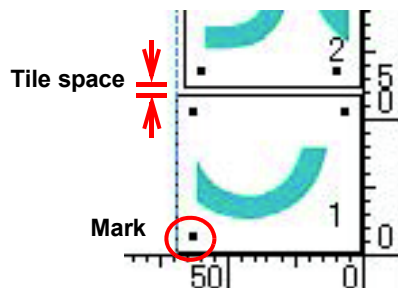
## 10 Tiling (☞ P.5-6)



Item	Description	Default
<b>[Separation]</b>	After setting the following items, click this button to separate the blocks.	--
<b>All Tiles</b>	Divides an object into the same size.	--
<b>Dividing position</b>	Set the dividing position.	--
<b>Detail Size</b>	Divides on the desired position. Move the division line using  (Select Tool).	--
<b>Overlap</b>	Sets the overlapping margin of the divided objects.	10
<b>Show Size</b>	Displays each size of divided objects.	unchecked
<b>Build Order</b>	Select an order to paste the cut objects together.	

## Layout of divided tiles

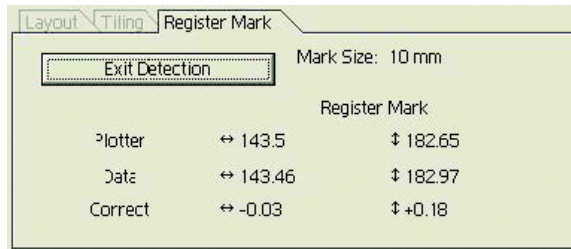
Click [Separation] to display the setting screen as below.



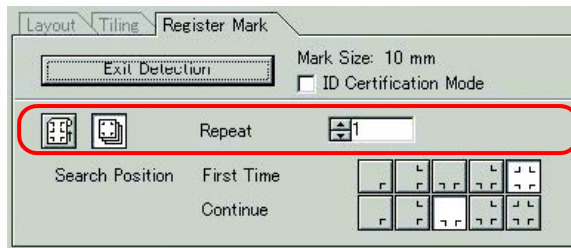
Button	Item	Description	Default
[Cancel]		Cancels the division.	--
	<b>Turn</b>	Rotates the object clockwise in unit of 90 degrees. Degrees (0, 90, 180, 270) are displayed in the arrow mark.	0
	<b>Move</b>	Click the desired direction of arrow to move the divided objects within the sheet.	--
	<b>Mark (Except CF3 (M-Head))</b>	Marks the divided objects. Select or input the mark size on the size column. Paste the divided objects together on the marks.	checked 20mm
	<b>Tiles Space</b>	Sets the space between divided objects when cutting continuously.	10mm

# 11 Register Mark

## CG-EX series

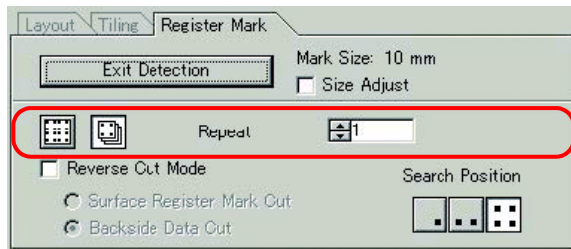


## CG-FX / FXII / 75ML / 60SR / SRII, CJV30 / TPC / CJV300 / CJV150 series



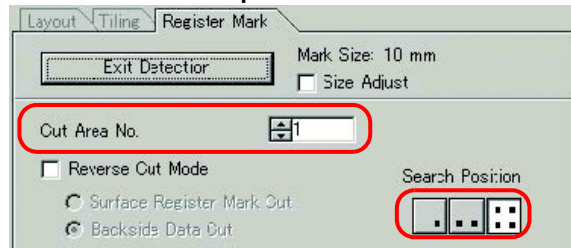
Continuous cutting

## CF2 / DC / CF3 series

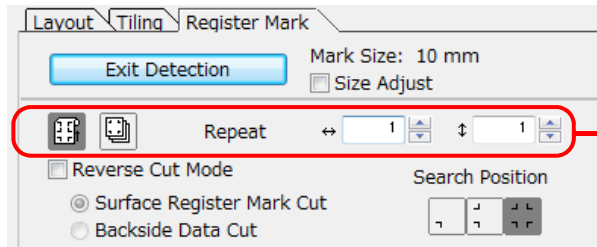


Continuous cutting

### When the mark is separated

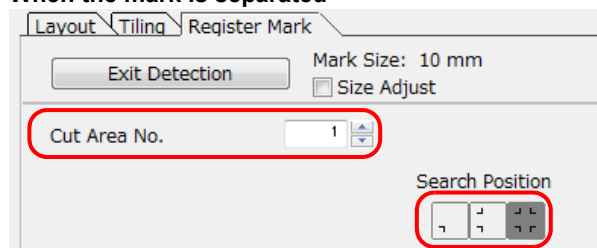


## CFL-605RT



Continuous cutting


### When the mark is separated

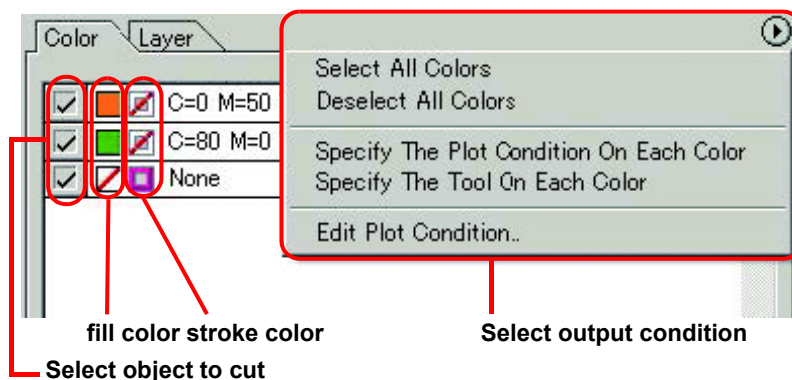


Item	Description	Default
<b>[Detect Mark]/[Exit Detection] button</b>	Corrects the angle and the size of the detected register mark. Click [Exit Detection] to cancel the detection.	--
<b>Setting of continuous cutting</b>	Select the roll mode (multi-mode) or the leaf mode (single mode), and set the number of continuous cutting.	Roll Mode (Multi Mode)
<b>Search Position</b>	Select the search position of the register mark. For CG/CJV30/CJV300/CJV150 series or TPC, select the first detecting position on upper boxes, and select the second or subsequent detecting position on lower boxes.	First Time <input type="checkbox"/> Continue <input type="checkbox"/>
<b>ID Certification Mode</b>	Check this when cutting with ID certification mode by CG-75ML.	unchecked
<b>Size Adjust</b>	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.	checked
<b>Reverse Cut Mode (CF2/DC/CF3 series CFL-605RT)</b>	Cuts from the back, not from the printed face. (☞ CF2/DC/CF3: P.3-35, ☞ CFL-605RT: P.3-44)	unchecked
<b>When the mark is separated</b>	Select the cut area No. and the search position of the mark to cut. (☞ P.3-32)	--

## 12 Color / Layer

Select [Color] or [Layer] tab to display the information of colors or layers.  
When tiling is executed, the tile list is displayed.

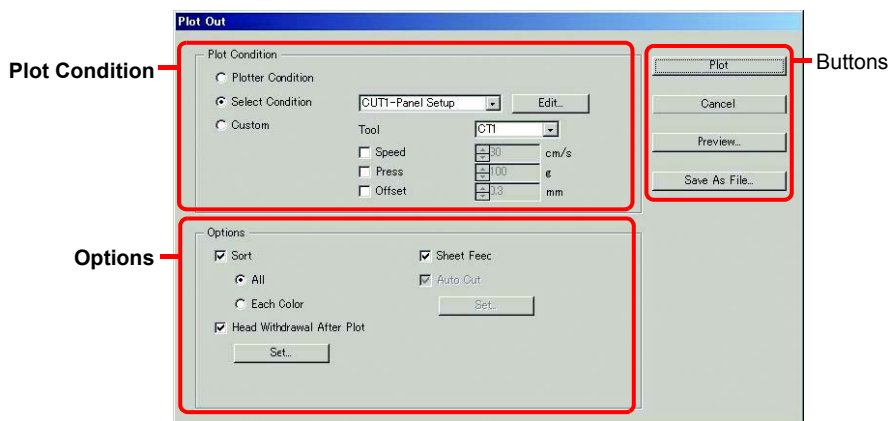
- Only the objects that are checked at the check box on the left are cut.
- Objects are cut in order of the list from the bottom to the top.  
Drag and move each line to change the cutting order.
- In the color list, click the fill color or stroke color to display each information.
- Click the  button on the upper right to specify the output condition.



# [Plot Out] Screen


Set for output.

To display this screen, click  (Plot button) in the Plot screen.



## Plot Condition

Select the output condition.

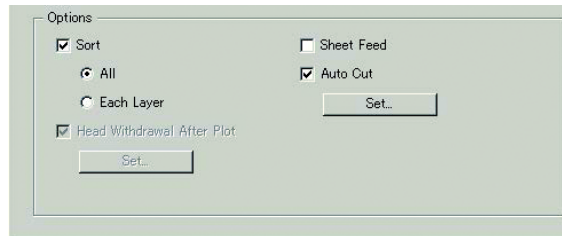
**Important!** • In the case of specifying output conditions or tools on each color or layer, the conditions cannot be edited on this screen. Instead, click  button on the right of Color / Layer tab in Plot screen and select [Edit Plot Condition...].

Item	Description
<b>Plotter Condition (except CF3 series (M-Head)) (Default)</b>	Plots with the output condition set on the plotter.
<b>Select Condition</b>	Select the plot condition set on FineCut. Click [Edit] button to add media, or to set cutting conditions by media types. (☞ P.7-5)
<b>Custom (except CF3 series (M-Head))</b>	Set plot condition on this screen. (☞ P.7-5)

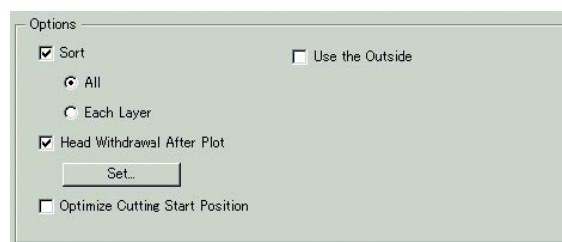
# Options

Set options. Settings differ from the selected model. (☞ P.7-4 "[Plotter/User Setup] Screen")

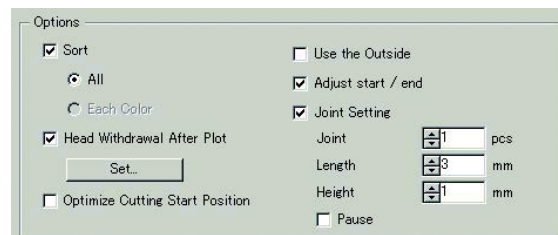
## CG/CJV30/TPC/CJV300/CJV150 series



## CF/CF2/DC/CF3 series, CFL-605RT



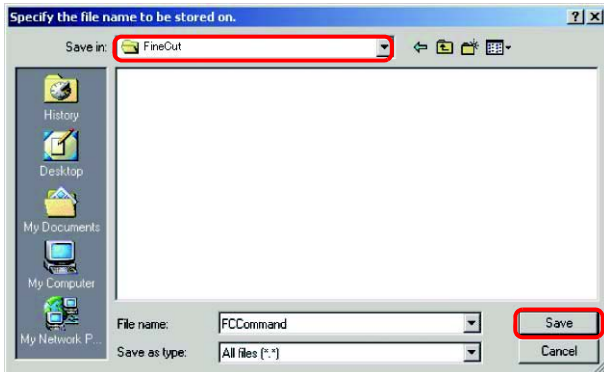
## CF3 series (M-Head)



Item	Description	Default
<b>Sort</b>	Optimizes cutting order of an object automatically. If unchecked, the object is cut from the bottom of the list of the color / layer / Tile. • CG / CJV30 / TPC/CJV300/CJV150 series Sorts to minimize the extra head movement for efficient cutting. • CF/CF2/DC/CF3 series Sorts to minimize the extra head movement, and to cut the inside objects first.	checked
<b>All</b>	Optimizes cutting order of all the objects.	checked
<b>Each Color/ Layer/Tile</b>	Optimizes cutting order by each color / layer / tile.	--
<b>Head Withdrawal After Plot</b>	Moves the head to the set position after cutting object. (☞ P.5-22 "Setting Head Position after Plotting") • This function cannot be used when [Auto Cut] is checked.	checked
<b>Sheet Feed (MGL-IIC for CG series only)</b>	Before cutting data, feeds the sheet and confirms whether the entire data can be cut. • If plotting fails, an error appears on the plotter. In this case, stop plotting, reset the sheet, then restart plotting.	checked


Item	Description	Default
<b>Auto Cut</b> (CG-FX/FXII/75ML, CJV30/TPC/CJV300/CJV150 series only)	When cutting a roll sheet continuously, the sheet is separated automatically after cutting. (☞ P.3-19)	unchecked
<b>Optimize Cutting Start Position</b>	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). • If this is checked, please note that the cutting start position set on the setting tool becomes invalid.	unchecked
<b>Use the Outside</b>	Cuts out inside of the object to use the outside. If checked, offset direction is optimized.	unchecked
<b>Adjust start / end</b>	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. • When CF3 (M-Head) is used, 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
<b>Joint Setting</b>	Leaves a part of the cutting line, and cuts it last. It prevents the work from misaligning and makes the cutting surface fine.	checked
<b>Joint</b>	Set the number of joint (places to leave).	1
<b>Length</b>	Set the length to leave.	3
<b>Height</b>	Set the height to leave.	1
<b>Pause</b>	Select to withdraw the head and to fix the media with tape.	unchecked

## Buttons

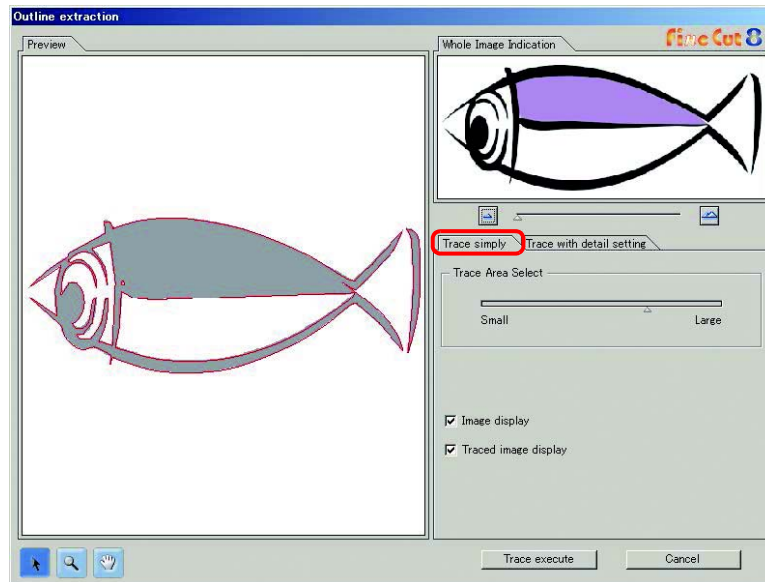
Item	Description
<b>[Plot]</b>	Starts plotting as the set conditions.
<b>[Cancel]</b>	Cancels plotting.
<b>[Preview]</b>	Previews the plotting with the set condition. Confirm the plotting by preview and adjust the settings. (☞ P.5-24 "Checking the Cutting Process by Preview") • Before starting plotting, be sure to check the cutline on the preview.
<b>[Save As file]</b>	Saves the plot data in a plot file. Select the folder and click [Save]. 





# [Outline Extraction] Screen

Create outline to cut bitmap images.

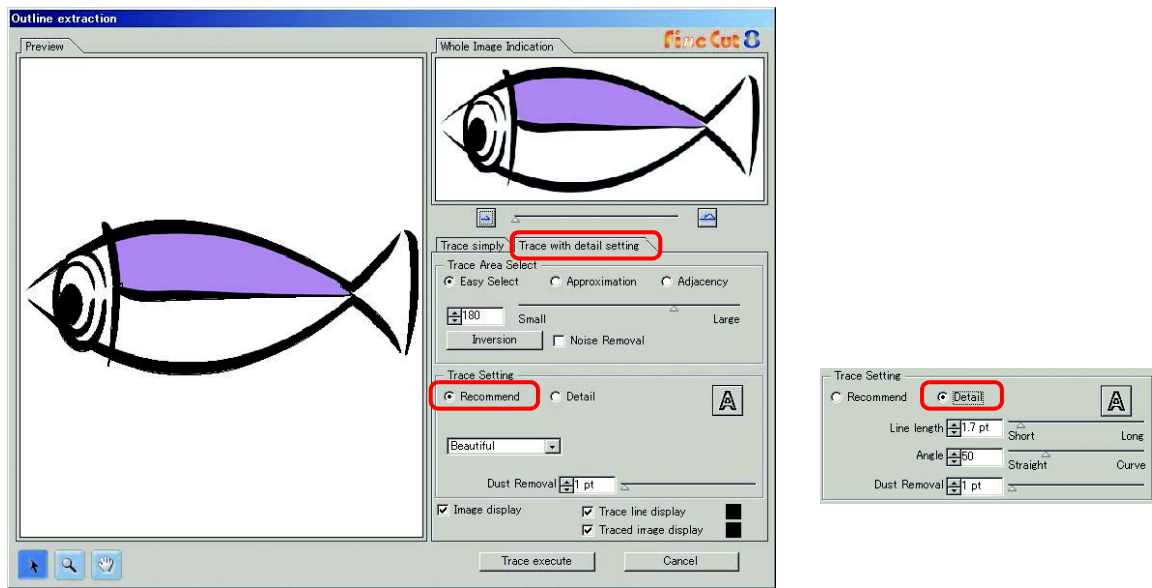
To display this screen, click  ([Outline Extraction] button) in the FineCut menu.





## Trace simply




Item	Description
<b>Preview</b>	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.
<b>Trace Area Select</b>	Drag the slider to select the tracing area. Move to [Small] to trace narrower area. Move to [Large] to trace wider area.
<b>Image display</b>	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.
<b>Traced image display</b>	Select whether the traced image is displayed on the preview or not.

# Trace with detail setting



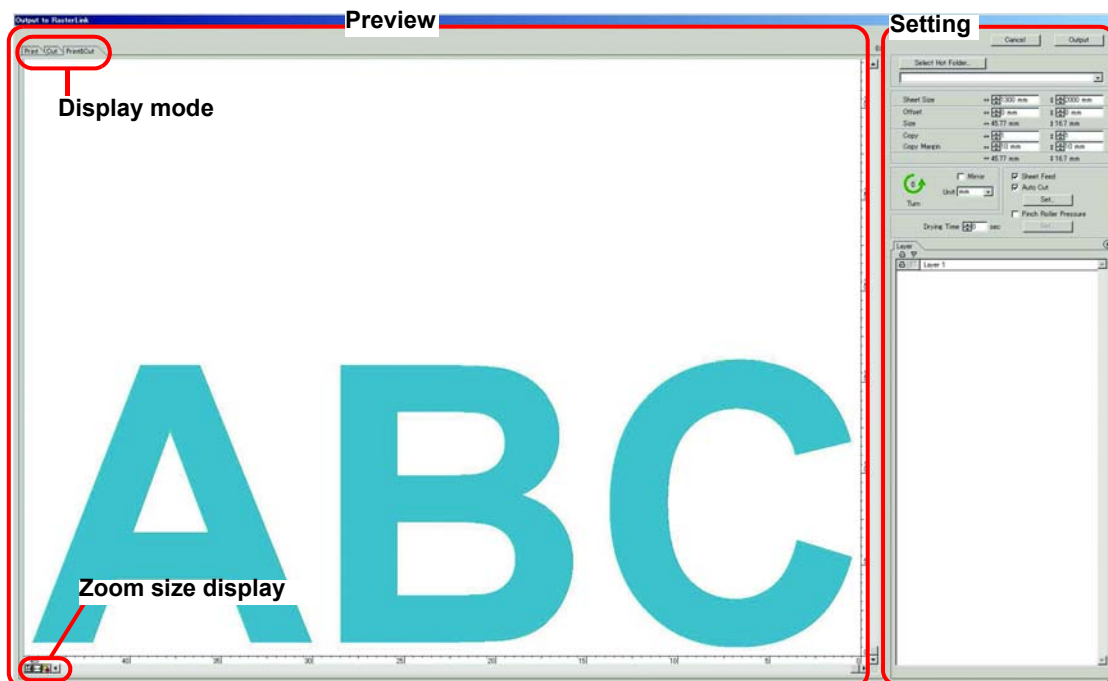
Item	Description	Default
<b>Preview</b>	Displays the image (monochrome) and the traced image.	--
	Moves all the object being displayed.	--
	Zooms in and out the preview. Click on the preview to enlarge the view. To reduce the view, click on the layout area as pressing down the [Alt] key (Windows) or [Option] key (Macintosh).	--
	Changes the displaying area of the object.	--
	Zooms in and out the preview.	--
<b>Trace Area Select</b>		
<b>Easy Select</b>	Select the trace area based on luminance of image. (Range: 2-255)	checked
<b>Approximation</b>	Select an approximate color of the color specified on the preview screen from the whole image.	--
<b>Adjacency</b>	Select the same color area as connected to the location specified on the preview screen.	--
<b>Entry column/Slider</b>	Set the range of the selected trace area.  • For [Approximation] or [Adjacency], decreasing the slider value enables to extract more accurate.	--
<b>[Inversion]</b>	Inverses the select area.	--
<b>Noise Removal</b>	Makes a smooth line, reducing uneven outline.	unchecked

Item	Description	Default
<b>Trace Setting (recommended setting)</b>		
<b>Beautiful</b>	Creates detail outlines.	checked
<b>Fast</b>	Extracting time is fast but the details of the outline is rough.	--
<b>Trace Setting (detail setting)</b>		
<b>Line length</b>	Specify a length for one line. The shorter the line becomes, the more elaborate in detail.	1.7pt
<b>Angle</b>	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
<b>Trace Setting (common to the recommended setting and the detail setting)</b>		
	Extracts only the outline.	unchecked
<b>Dust Removal</b>	Delete the line that is shorter part than the specified length. Remove the extra lines created by scanning.	1pt
<b>Image display</b>	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
<b>Trace line display</b>	Displays selected tracing area. Click square on the right to change the display color of the tracing area.	checked
<b>Traced image display</b>	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 CJV30/CJV300/CJV150 series or TPC, set items to output print data and cutting data to RasterLink.

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



## Preview


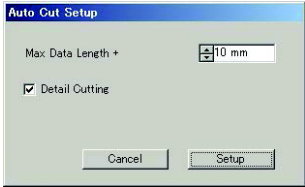
Displays image of an object.


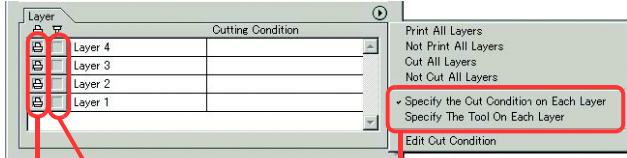

Item	Description
<b>Display mode</b>	
Print	Displays a printed image.
Cut	Displays a cut image with black line.
Print&Cut	Displays a cut image on the printed image by layers with black line.
<b>Zoom size display</b>	
	<b>Fit In Sheet Size</b> Displays the entire sheet.
	<b>Fit In Sheet Width</b> Enlarges the sheet width to full screen.
	<b>Fit In Objects Size</b> Displays the enlarged object to fill the screen.



- The display type of this screen can be set on "Plotter / User Setup" screen. (☞ P.7-14)

## 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	Enter an effective sheet size (width and length) set on the plotter. Effective size can be checked on RasterLink.	--
Offset	Set an offset (horizontal/ vertical direction) from the origin on the lower right of the sheet.	0
Size	Displays the vertical and horizontal lengths of an object.	--
Copy	Enter the number of copies of one object along the horizontal and vertical directions.	1
Copy Margin	Enter the margin between the copied objects along the horizontal and vertical directions.	10
Turn	Rotates the object anticlockwise in unit of 90 degrees. Degrees (0, 90, 180, 270) are displayed in the arrow mark.	0
Mirror	Reverses the right and left of the object image and cuts it.	unchecked
Unit	Set the display unit in this screen.	mm
Sheet Feed	Feeds the sheet before plotting to check whether the entire data can be plotted.	checked
Auto Cut	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.3-19) CJV300 / 150 series does not correspond to the Detail Cutting. 	checked

Item	Description	Default
<p><b>Pinch Roller Pressure</b></p>	<p>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).</p> 	<p>unchecked</p>
<p><b>Drying Time</b></p>	<p>Set drying time of media after printing.</p>	<p>0</p>
<p><b>Layer</b></p>	<p>Select/Set the layer to print or plot.</p>  <p>Printer icon      Cutting icon      Setting by layer</p> <ul style="list-style-type: none"> <li>• Printer icon Click to put a mark on the printing layer.</li> <li>• Cutting icon Click to put a mark on the cutting layer.</li> <li>• 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.</li> </ul>	<p>--</p>




- 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.

**Important!**

- When cutting with the register mark loaded, set [1Pt] on [MARK DETECT] of CJV30/CJV300/CJV150 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.3-7)  
(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.3-7)
- 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.

# [About FineCut] Screen

Displays the operation manual of FineCut and the latest information (online information).


Click  ([About FineCut] button) in the FineCut menu.

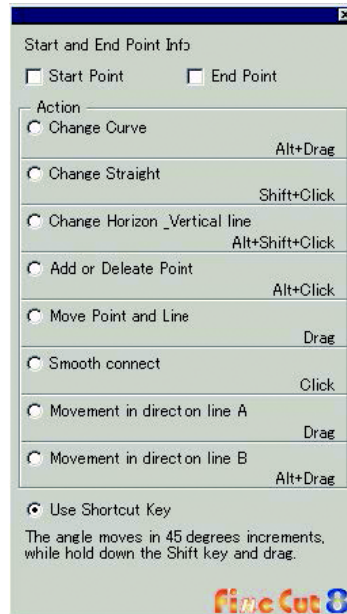


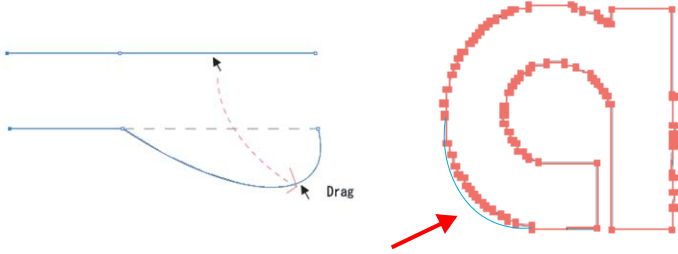
Item	Description
<b>Operation Manual</b>	Displays the Operation Manual of FineCut (This manual).
<b>Online Information</b>	Displays the latest information or update information of FineCut. A PC with Internet access is needed.

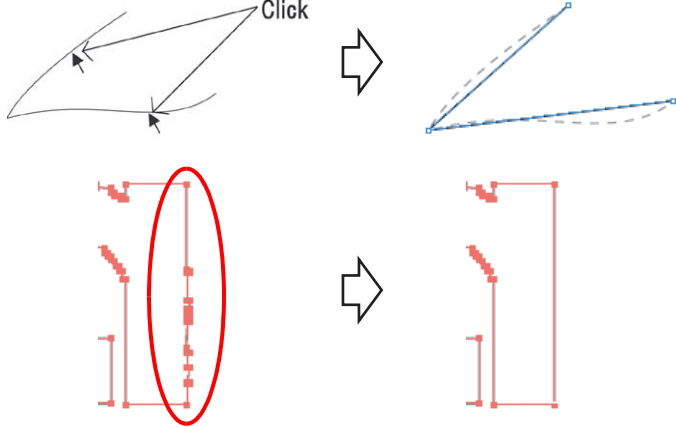
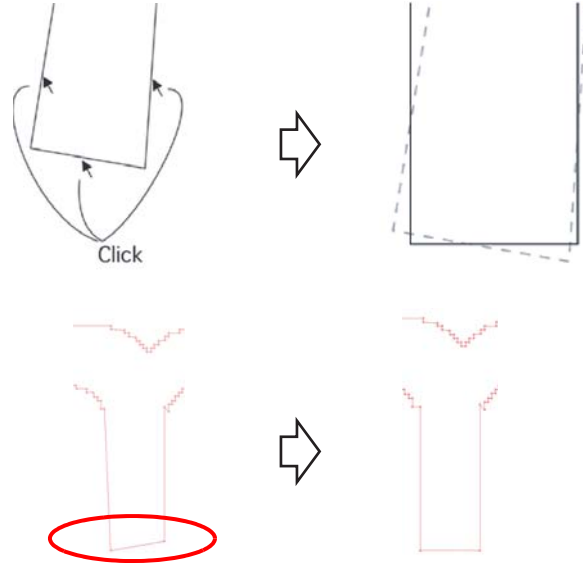
# [Line Edit Tool] Screen

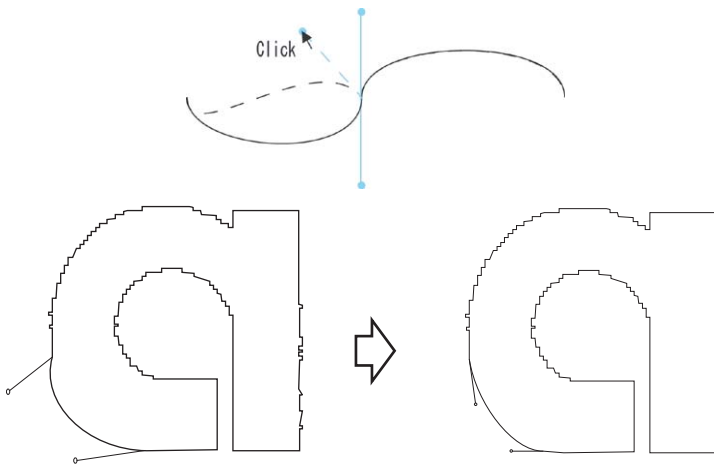
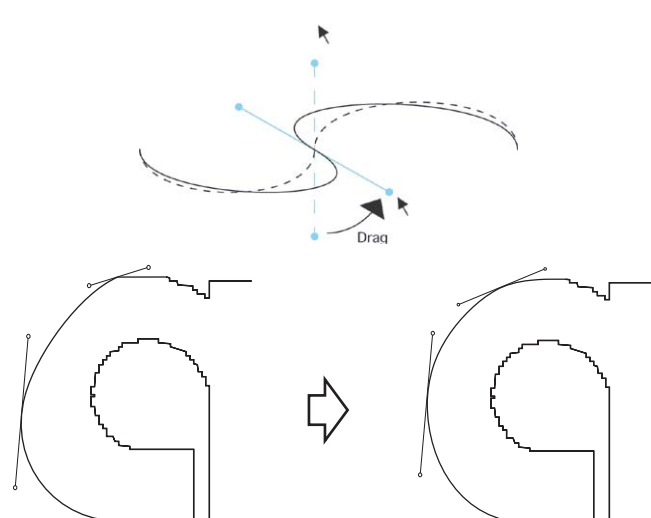
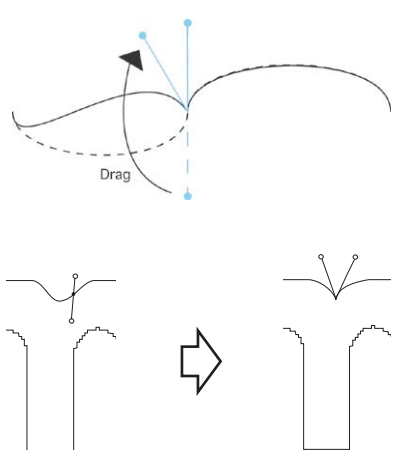
Specify Start Point and End Point, then edit the multiple lines altogether. It is also possible to edit the lines one by one.

Click  ([LineEdit] button) in the Illustrator tool palette.



Item	Description
Start and End Point Info	<p>Set the Start Point and End Point.</p> <ul style="list-style-type: none"> <li>• Start Point Move the cursor close to the anchor point to show "S". Click the anchor point to set the start point.</li> <li>• 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.</li> </ul>
Change Curve	<p>Curve the line between the Start Point and End Point. Select the Start Point and End Point, then drag the line.</p> 

Item	Description
Change Straight	<p>Straighten the line between the Start Point and End Point. Select the Start Point and End Point, then click along the line.</p> 
Change Horizon_Vertical line	<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> 
Add or Delete Point	<p>To add an anchor point, click the position to add on the line. To delete the anchor point, click the anchor point.</p>
Move Point and Line	<p>Move the line while holding the shape between Start Point and End Point.</p>

Item	Description
Smooth connect	<p>Set the control point at identical tilt and smooth the joint of the line.</p> 
Movement in direction line A	<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> 
Movement in direction line B	<p>Move only the selected control point to change the curvilinear shape.</p> 

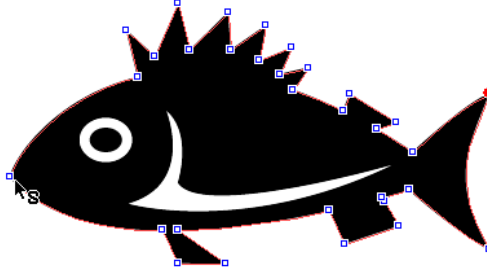
# Setting Cutting Start Position

The start position of cutting an object can be specified.

Click  ([Specify Cutting Start Position] button) in the Illustrator tool palette.



- When CF/CF2/DC/CF3 series is used, uncheck [Optimize Cutting Start Position] on 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

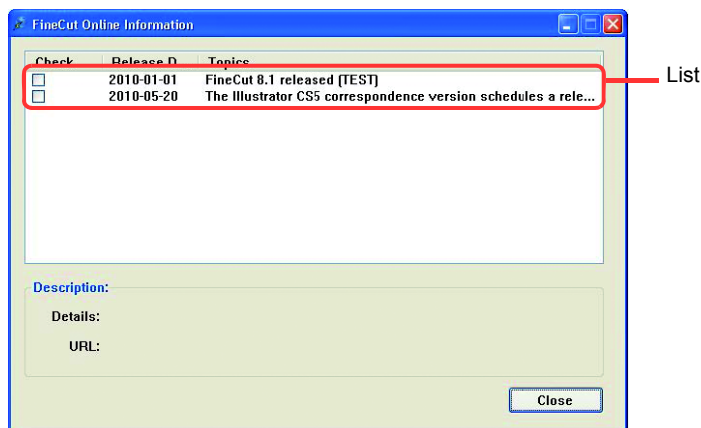
Displays the latest information and update information of FineCut.

**Important!**

- This screen is not displayed when unconnected to Internet.
- For Macintosh, it is displayed on Mac OS X 10.4 or later.



- 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 menu.
- This screen is displayed only in English or Japanese.



Item	Description
<b>List</b>	The list of FineCut information is displayed. Click to display the information on the bottom column of Outline. Double-click to display the detailed information on Web browser.
<b>Check</b>	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 menu, the checked items are also displayed.)
<b>Release Date</b>	It is the released date of the information.
<b>Topics</b>	It is an outline of the information.
<b>Description</b>	Details: The details of the information selected above is displayed. URL: Click to display the detailed information on Web browser.

# Uninstallation of FineCut

To uninstall FineCut, follow the procedures below.  
This section describes with the Windows XP screens.

## For Windows

1

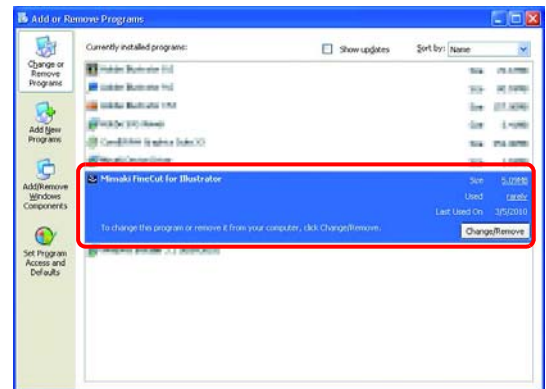
Select [Start] - [Control Panel] - [Add or Remove Programs] ([Add or Remove Applications] for Windows 2000).

For Windows Vista/ Windows 7/Windows 8/Windows 8.1, select [Control Panel]-[Programs]-[Programs and Features].

2

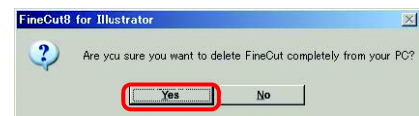
Click [Mimaki FineCut for Illustrator] and click [Change/Remove] button.

For Windows Vista / Windows 7/Windows 8/ Windows 8.1, click [Uninstall] button.



3

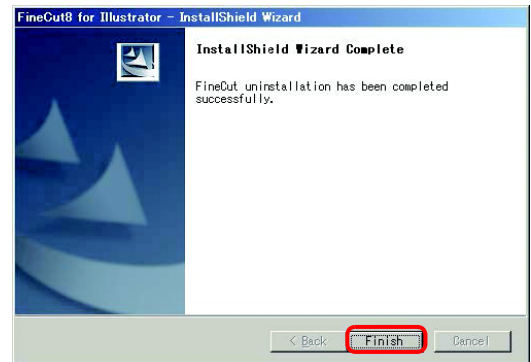
When a message on the right appears, click [Yes].



4

Click [Finish].

Uninstallation is complete.



## For Macintosh

Delete [Mimaki FineCut] folder in the [Plug-ins] folder of Illustrator in which FineCut is installed.

# CHAPTER 8

## Troubleshooting



This section describes the troubles and the solutions.

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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.

## Improperly plotted on the wrap-around text

If executing Frame Extraction/ Create Weed Line/ Create Shadow/Edge on the wrap-around text which created by the IllustratorCS/CS2/CS3/CS4/CS5 -[Object]-[Text Wrap]-[Make Text Wrap], the object is plotted improperly.

To plot properly, create an out-line text by the [Type]-[Create Outlines].

## 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.

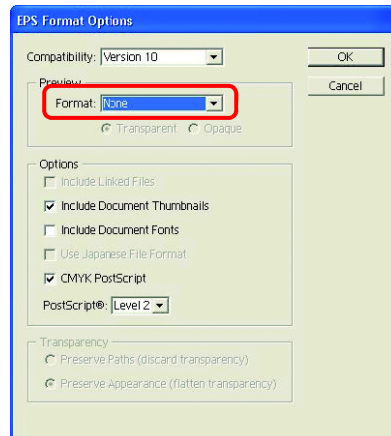
## The inside path is not cut when cutting the path that is applied "Effect" of Illustrator with CF3 series (M-Head)

When cutting the path that is applied "Effect" of Illustrator with CF3 series (M-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.



# 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.
The communication port has already been used by other application or driver. Terminate the application or driver which uses the communication port.	For Mac OS 9.2.2, the port connected to the plotter may have already been used on AppleTalk. Set AppleTalk "Inactive" on Chooser, or select a port unconnected to the plotter on AppleTalk control panel. When the plotter is connected to the printer port, select "Modem port" or "Ethernet".
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/CJV150 or TPC does not detect media. Execute media detection, and then execute again.
Non-Mimaki plotter is connected. FineCut is able to output to Mimaki plotter.	Connect Mimaki plotter.
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. <ul style="list-style-type: none"> <li>• Decrease the data size.</li> <li>• Increase the memory of the PC.</li> <li>• For Mac OS 9.2.2, increasing the memory usage of Illustrator may solve the problem.</li> </ul>

Message	Solution
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.	This function can be used with the plotter "CJV30" "CJV300" "CJV150" or "TPC".
Cannot write into the folder selected. Click [Select Hot Folder] button and check the folder.	Check the hot folder of RasterLinkPro is correctly selected.
An unexpected error occurred.	Contact a distributor in your district to call for service.
An Error occurred. Error No. xxxx	





